MORTAL KOMBATII



OPERATIONS MANUAL

Operation & Adjustments • Testing & Problem Diagnosis Parts Information • Wiring Diagrams & Schematics

MORTAL KOMBAT II



Insert Coin(s)

In a two player game, the loser pays and the winner stays.

Press the Punch and Kick buttons to attack an opponent.

Use the joystick to make the screen player jump or duck, and move left or right.

Use joystick and button combinations to discover secret moves.

MORTAL KOMBAT II

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MORTAL KOMBAT II

SECTION

one

Operation

Safety Notices

The following safety instructions apply to all game operators and service personnel. Specific warnings and cautions will be found throughout this manual where they apply. We recommend that you read this page before preparing your game for play.



AC POWER CONNECTION. Before connecting the game to the AC power source, verify that the "line voltage selection chart" jumper wires are installed correctly for the line voltage in your area. For details, refer to Section 3.

PROPERLY GROUND THE GAME. To avoid electrical shocks, do not plug in the game until it has been inspected and properly grounded. MIDWAY games should only be plugged into a grounded 3-wire outlet. Shocks will also result, if the control panel is not properly grounded! After servicing any parts on the panel, assure that the ground wires are secure. Only then should you lock up the game.

DISCONNECT POWER DURING REPAIRS. To avoid electrical shock, disconnect the game from the AC power source before removing or repairing any part of the game.

USE THE PROPER FUSE. To avoid electrical shock, use the replacement fuse which is specified in the parts list for this game. The replacement fuse must match the original fuse in fuse type, voltage rating, and current rating.

MONITOR PRECAUTIONS. When removing or repairing the monitor, extra precautions must be taken to avoid electrical shock because high voltages may exist within the monitor circuitry and cathode ray tube (CRT) even after power has been disconnected. Do not touch internal parts of the monitor with your hands or metal objects! Always discharge the CRT by the following method: Attach one end of a large, well-insulated, 20-kV jumper to ground. Momentarily touch the free end of the grounded jumper to the anode by sliding it under the anode cap. Wait two minutes and discharge the anode again.

HANDLE FLUORESCENT TUBE AND CRT WITH CARE. If you drop a fluorescent tube or CRT and it breaks, it will implode! Shattered glass can fly eight feet or more from the implosion.

ATTENTION!

PROPERLY ATTACH ALL CONNECTORS. Make sure that the connectors on each printed circuit board (PCB) are properly connected. If they do not slip on easily, do not force them. A reversed connector may damage your game and void the warranty. All connectors are keyed to fit specific pins on each board.

Setup Procedure

INSTALLATION & INSPECTION

- 1. Remove all items from shipping container and set them aside. Inspect the exterior of the cabinet for any damage.
- 2. The keys are either taped to the coin return slot, or attached to joystick. Unlock and open the coin and cash box doors. Remove the leg levelers and spare parts which are stored in the cash box.
- 3. Remove the rear door of the cabinet. Inspect the interior for any signs of damage. Check all major assemblies to assure that they are mounted securely.
- 4. Tilt or lay the cabinet down. Locate the four threaded holes on the bottom of the cabinet (one in each corner), and install one leg leveler (with its hex nut) in each hole.
- 5. Stand the cabinet upright and make certain that it is in a stable position. Level the cabinet.
- 6. Refer to the game's Cabinet Wiring Diagram (section 3), and check to see that all cable connectors are correctly secured. DO NOT FORCE CONNECTORS. Watch for damaged connectors and avoid making reversed connections.
- 7. Determine the value of your line voltage with a meter. Then, check the power input wires to the main power supply transformer. Be sure they are connected to taps which correspond to your local line voltage value. If necessary, reconnect the power input wires to the transformer in accordance with the Transformer Chart in section 3.
- 8. Lay the line cord (connected to the Power Chassis) in the slot along the bottom edge of the rear cabinet door. Replace the rear cabinet door. Close and lock the front coin and cash box doors.
- 9. Connect the line cord to a grounded (3-terminal) AC wall outlet.
- 10. Switch On the game, using the On/Off switch located on the upper left rear of the cabinet, to verify proper operation.

Game Location Requirements

Power

Domestic 115V @ 60 Hz Foreign 230V @ 50 Hz

Тетр.

32° F to 100° F (0° C to 38° C)

Humidity .

Not to exceed 95% relative.

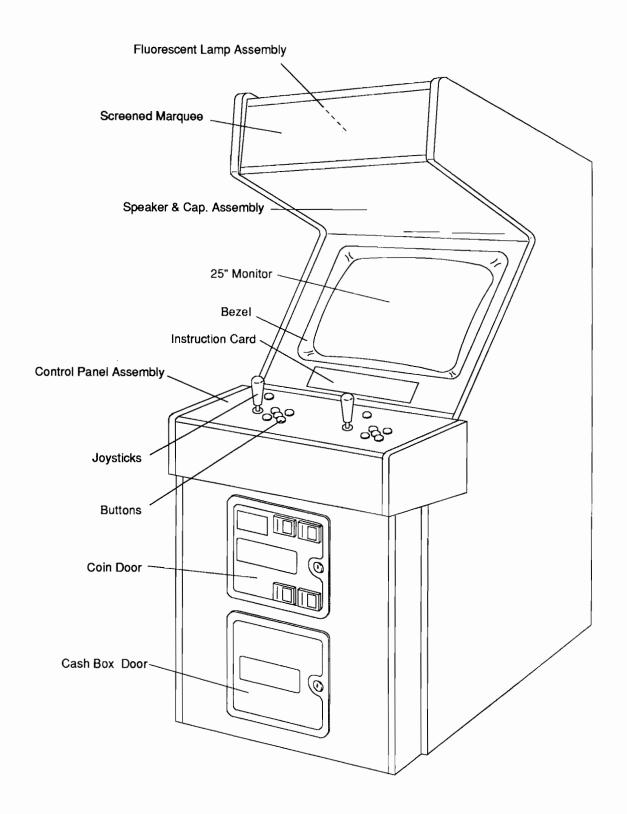
Cabinet Statistics

Dimensions.

Width 27" Depth 41" Height 73"

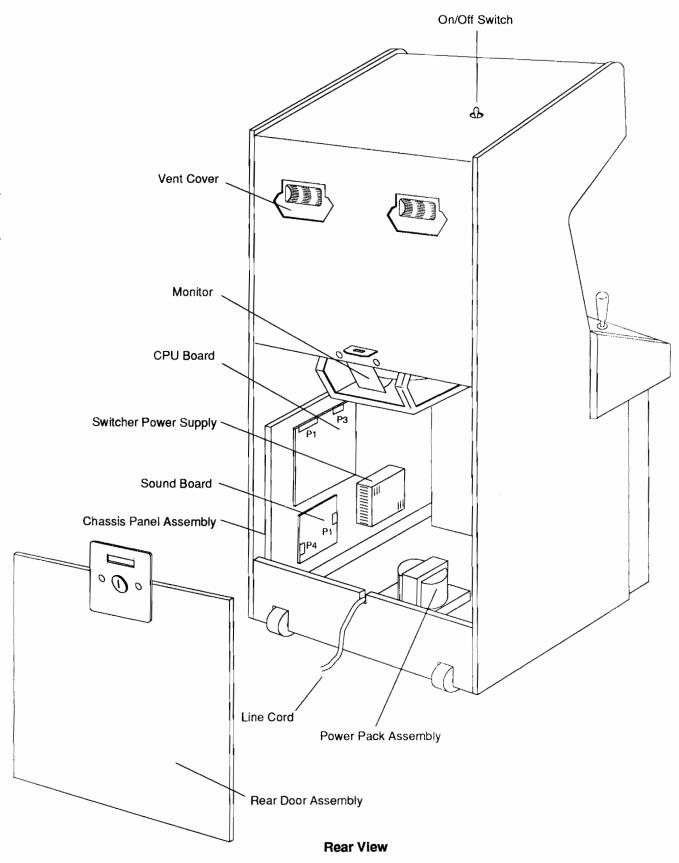
Weight.
Approx 402lbs

Cabinet Assembly



Front View

Cabinet Assembly



Servicing

Servicing the Control Panel

Switch off power to the game and open the coin door. The control panel is held in place by two latches (located inside the cabinet) which provide constant pressure on the strikes. To release the latches, reach through the coin door opening toward the left and right sides of the cabinet. Do not reach straight back through the coin door opening or you could damage the monitor control board. Lift the latch handle and unhook the wire fasteners. Grip the joysticks and carefully tilt the control panel back on its hinge.

To return the control panel to its normal position, carefully lean it forward until it rests on the cabinet. Be careful not to let it slam down onto the cabinet, or to pinch any wires. Always reclasp the latches.



The monitor DOES NOT contain an isolation transformer in its chassis (it is mounted instead in the Power Chassis Assembly located on the floor of the cabinet). When servicing the monitor on a test bench, YOU MUST ISOLATE THE MONITOR FROM THE LINE VOLTAGE WITH AN ISOLATION TRANSFORMER.



While removing the four bolts, firmly support the monitor from the front of the CRT so that it will not slip.

Removal of Viewing Glass

Switch off power to the game, and open the control panel. Remove the five hex head screws and the black metal strip at the bottom of the viewing glass. Carefully, slide the glass from its side grooves and lift it clear of the cabinet.

Removal of Monitor Bezel

Switch off power to the game. Open the control panel and remove the viewing glass. Lift the bezel off of the monitor.

■ Monitor Replacement

We recommend that you read the WARNINGS section thoroughly before beginning this procedure.

Switch off power to the game. Remove the viewing glass and the monitor bezel. Completely disconnect the monitor from all of its cabling. Remove the four bolts securing the monitor's mounting flanges to its mounting panel. Pull the monitor carefully from the cabinet front.

■ Removal of the Marquee

Switch off power to the game. Remove the five hex head screws from the black strip on top of the cabinet. Remove the strip and carefully lift the marquee. Store the marquee carefully to prevent damage.

The fluorescent tube is now accessible for replacement. Remove the plastic lamp locks. Grasp the tube, give it a quarter turn, and remove it from its socket. Carefully place a new tube into the socket, and turn to reinstall.



WARNING

Use care in handling. If you drop a fluorescent tube and it breaks, it will implode!

Removal of the Fluorescent Light Assembly

Switch off power to the game. Remove the marquee glass. Disconnect the fluorescent light assembly from its power cable. Remove the screws that hold the assembly to the cabinet then lift out the assembly.

Removal of the Speakers

Switch off power to the game. Remove the marquee glass. The speakers come out from the front of the cabinet. Be sure to disconnect the cabling and remove the nuts and machine screws before attempting to remove the speakers from their enclosure. Carefully reinstall the seals upon completing any task in the speaker enclosure.

Volume Control, Begin Test Switch, and Service Credit Switch

Open the coin door. The game's volume control and diagnostic pushbutton switches are located on a small bracket on the door. The volume is controlled by the two center buttons. Depress the Volume Up or the Volume Down button until the desired sound level is reached. The Begin Test switch, on the right, activates the game's menu system. The Service Credit switch, on the left, allows credits to be alloted for service testing without affecting the game's bookkeeping total.

Game Features

STARTING UP

Switch on power to the game. A "rug" pattern appears on the CRT screen. When the "rug" pattern ends, the screen shows CHECK-ING SCRATCH RAMS, and then CHECKING ROMS. The next screen shows **MORTAL KOMBAT II** REVISION LEVEL, CMOS TEST OK and the COIN SETTING. The game then begins the Attract Mode.

Insert the desired amount of coins, bills or tokens. Press the appropriate Start button. Use the joysticks to select an on-screen player. Use a control panel button to lock in the selection. The game starts automatically.

Note is detect

When an error is detected during Startup Tests, game start-up does not progress, and an error message appears on the screen.

Note

Discover secret moves by using

joystick and button combinations.

Player Controls

Start Buttons

Each player has a Start button which allows him/her to begin or continue play.

High Kick/High Punch Buttons

Allows the on-screen player to kick or punch an opponent in the upper body.

Low Kick/Low Punch Buttons

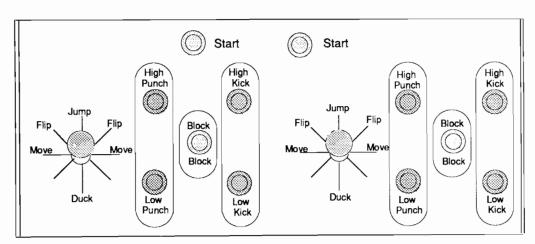
Allows the on-screen player to kick or punch an opponent in the lower body.

Block Buttons

Allows the on-screen player to block an opponent's punch, kick or special move.

Joystick

Allows the on-screen player to move, flip, jump and duck.



Control Panel

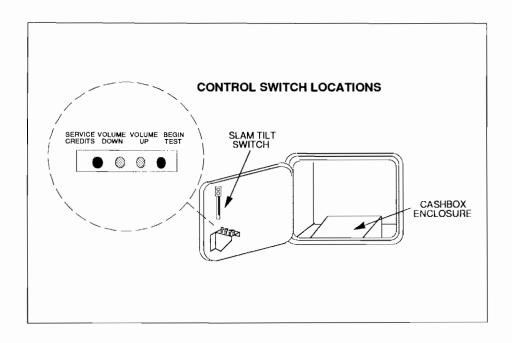
1-8

Game Operation

The **MORTAL KOMBAT II** Control Switches are located inside the coin door.

Control Switches

- The **Slam Tilt switch** detects any forceful vibrations against the coin door. This eliminates pounding for free games.
- The Volume Down and Volume Up switches increase or decrease the volume level of the music and speech. For greater profits, set your game's volume level at a nice loud setting.
- The **Begin Test switch** allows you to activate the game's menu system. Press the Begin Test switch to access the Main Menu. To exit the menu system, select EXIT TO GAME OVER from the Main Menu, then press any control panel button.
- The **Service Credit switch** is a special feature switch that allots credit without affecting the game's bookkeeping total.



Menu System Operation

OPERATION

All MORTAL KOMBAT II Game Audits, Adjustments, and Diagnostics are options of the Main Menu. Each option in turn, has its own menu, listing several choices that you may act upon as desired.

Press the Begin Test switch on the coin door or close Switch #8 of DIP Switch Bank #2, to activate the Main Menu (shown below). Game adjustments, bookkeeping, and diagnostics are all accessible from this menu.

Move any joystick up or down to cycle through the menu options. Notice that the options are highlighted in sequence. Press any button to activate a highlighted option.

Note: Only highlighted options can be activated.

SELECT WITH ANY STICK ACTIVATE WITH ANY BUTTON

DIAGNOSTIC TESTS

COIN BOOKKEEPING

GAME AUDITS

GAME ADJUSTMENT

UTILITIES

VOLUME ADJUST

EXIT TEST MENU

MAIN MENU

DIAGNOSTIC TESTS

To enter the Diagnostic Tests from the Main Menu, move any joystick to select (highlight) the Diagnostic Test option and press any control panel button to activate the option.

SELECT WITH ANY STICK ACTIVATE WITH ANY BUTTON

SWITCH TEST

DIP SWITCH TEST

CPU BOARD TEST

SOUND BOARD TEST

MONITOR PATTERNS

BURN-IN TEST

RETURN TO MAIN MENU

DIAGNOSTIC MENU

Switch Test

The Switch Test allows the operator to test the switches on the control panel and the coin door.

Select the Switch Test by using any joystick to highlight the Switch Test option, then press any control panel button to activate the option.

During the Switch Test, the top of the screen shows the locations of the control panel switches. The bottom of the screen shows the locations of the coin door switches. Press a control panel switch and the switch location, on the top of the screen, lights. Press a coin door switch and the switch location, on the bottom of the screen, lights. Release the switch and the screen returns to normal.

Press the Start buttons together to return to the Diagnostic Menu.

DIP Switch Test

The DIP Switch Test allows the operator to check the position of the two DIP Switches on the CPU Board. The operator can also change the setting of each position of each DIP Switch during this mode.

Use any joystick to select the DIP Switch Test and any control panel button to activate it. The screen displays their current settings.

To change a DIP Switch setting, press the switch to the desired setting, then check the screen to verify that the switch now shows the new setting.

Press any control panel button to return to the Diagnostic Menu.

DIP Switch 1 Settings Table

					•			
	SW 1	SW 2	SW 3	SW 4	SW 5	SW 6	SW 7	SW 8
Violence On	Off *							
Blood in game	-	Off *						
Low Blow in game			Off * On					
Attract Sounds On				Off * On				
Comic Offer On					Off * On			
Dollar Bill Valida Not Installed Installed	itor					Off * On		
Not Used							Off * On	Off *

DIP Switch 2 Settings Table

` <u> </u>	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
Coinage DIP Switch CMOS	Off *							
Coin Settings		0".						
USA 1 Ger 1 USA 2 Ger 2 USA 3 Ger 3 USA 4 Ger 4 USA ECA Ger ECA N/U N/U N/U N/U	Fr 1 Fr 2 Fr 3 Fr 4 Fr ECA N/U N/U Free Play	Off * On Off On Off On Off On Off On	Off * Off On On Off Off On Off On	Off * Off Off Off On On On				
Country Off * Off * USA On Off Off On On On On German Off On On On On On On On On On On On On On On On On On On On On On O								
One Counter Off * On								
Test Switch Game Mode Test Mode								Off *

^{*} Indicates Factory Setting

CPU Board Test

The CPU Board Test (much like the Start-up Test) allows the operator to check the RAMs and ROMs.

Select the CPU Board Test with any joystick, then press any control panel button to activate the automatic test of the CPU Board's RAMs and ROMs.

When this test is activated a "rug" pattern appears on the screen. The screen then changes to show the layout of the RAMs and ROMs. A ROM or RAM location that is shown as black with a white outline is used and should turn either red or green. A ROM or RAM location that is shown as gray with a white outline is not used in this game. During the test ROMs or RAMs are good if they turn green and they are faulty if they turn red.

The CPU Test pauses when a bad ROM or RAM is detected. Press any button to continue the test.

Sound Board Test

This test allows listening to some of the sounds that this game is capable of producing.

Select the Sound Board Test with any joystick, then press any control panel button to activate it. The screen displays two test options.

GENERAL TEST analyzes the sound circuitry. The screen shows a list of error codes. A successful test causes a single "tone" to sound. Detection of a fault causes a series of tones or no tone at all to sound.

PLAY SOUNDS tests synthesized & digitized sounds from the Sound Board. Advance to the next sound by pressing any action button. Press either Start button to repeat a sound.

Select RETURN TO MAIN MENU or BACK TO DIAGNOSTIC MENU. Press any control panel button to activate your selection.

GENERAL TEST
PLAY SOUNDS
BACK TO DIAGNOSTIC MENU
RETURN TO MAIN MENU

SOUND TEST MENU

Monitor Patterns

The Monitor Patterns Test provides a menu for testing the monitor.

Select the test with any joystick and activate with any control panel button. Once in the Monitor Patterns Test, move any joystick to select a test option and press any control panel button to activate it. Press any control panel button again to return to the Monitor Patterns Test menu.

SELECT WITH ANY STICK ACTIVATE WITH ANY BUTTON RED SCREEN GREEN SCREEN BLUE SCREEN COLOR BARS CROSSHATCH PATTERNS BACK TO DIAGNOSTIC MENU RETURN TO MAIN MENU

MONITOR PATTERN MENU

The **RED**, **GREEN** and **BLUE SCREEN** tests fill the screen with either red, green or blue.

The **COLOR BARS** test fills the screen with several shades of colors to help with red, green and blue level adjustments. Each color should appear sharp and clear.

The **CROSSHATCH PATTERNS** test fills the screen with a grid and a series of dots. The grid and the dots should be clear. The dots should appear round.

If any of the Monitor Pattern Tests shows a need for adjustment use the proper white knobs on the Monitor Board.

Use any joystick to select RETURN TO MAIN MENU or BACK TO DIAGNOSTIC MENU and activate with any control panel button.

Burn-in Test

The Burn-in Test continually repeats the CPU Board Test. Move any joystick to select the Burn-in Test, then press any control panel button to activate the test. When the Burn-in Test detects an error, the test stops and displays an error message on the screen. The second page of the Audit Table specifies the number of Burn-in cycles successfully completed. Use this test to find intermittent CPU problems.

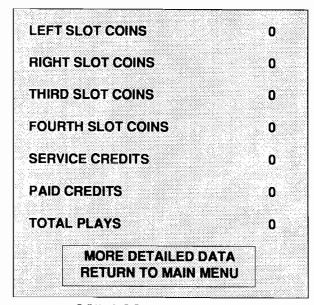
To exit this test switch the game Off then On again.

COIN BOOKKEEPING

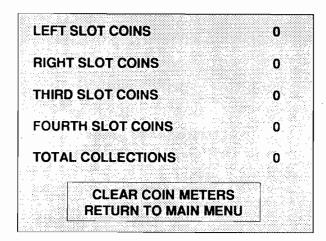
To enter the Coin Bookkeeping from the Main Menu, move any joystick to select the Coin Bookkeeping option, then press any control panel button to activate it.

The Coin Bookkeeping Table records the coinbox totals and game play counters. The left side of the table names the bookkeeping item and the right side shows the number of coins, credits, or plays for each item.

To exit Coin Bookkeeping, move any joystick to select RETURN TO MAIN MENU, then press any control panel button to activate it.



COIN BOOKKEEPING TABLE



TOTAL COLLECTION TABLE

GAME AUDITS

To enter Game Audits from the Main Menu, move any joystick to select the Game Audits option, then press any control panel button to activate it. To advance to the next (or return to the previous) page of the Game Audit Table, move any joystick to select either "Next Audit Page" or "Previous Audit Page", then press any control panel button to change the page.

The Game Audits Table records the game play statistics. The left side of the table names the Audit item the right side shows the amount of play.

	2-27-27
HOURS	GAME WAS ON 0
HOURS	PLAYED WITH 1 PLAYER 0
HOURS	PLAYED WITH 2 PLAYERS 0
TOTAL	PLAYS 0
1 PLAY	ER CONTINUES TAKEN 0
2 PLAY	ER CONTINUES TAKEN 0
BURN-II	N LOOPS SUCCESSFULLY COMPLETED 0
	NEXT AUDIT PAGE RETURN TO MAIN MENU

PAGE 1 OF AUDIT TABLE

KUNG LAO CHOSEN	0
LIU KANG CHOSEN	0.
CAGE CHOSEN	0
BARAKA CHOSEN	0
KITATA CHOSEN	0
MILEENA CHOSEN	0
SHANG TSUNG CHOSE	
RAIDEN CHOSEN SUB-ZERO CHOSEN	0
REPTILE CHOSEN	0
SCORPION CHOSEN	0
JAX CHOSEN	0
PREVIOUS AUDI	AVA00000 - 2011 - 300 2011 No. 105 1

PAGE 2 OF AUDIT TABLE

To exit the Game Audit Table, move any joystick to select RETURN TO MAIN MENU, then press any control panel button to activate your selection.

GAME ADJUSTMENTS

Move any joystick to select the Game Adjustment option on the Main Menu, then press any control panel button to activate it.

The Game Adjustments Menu allows the owner/operator to change the Game Pricing and Game Difficulty.

The Game Adjustments Menu offers several options. Each option has several choices. Move any joystick to select an option, then press any control panel button to activate that option. The next menu screen provides a setting choice. Move any joystick to modify the setting value, then press any control panel button to lock in the new value and return to the Adjustment Menu. Move the joystick up to increase the setting value, move the joystick down decrease the setting value.

To exit the Adjustments Menu, use any joystick to select RETURN TO MAIN MENU, then use any control panel button to activate your selection.

SELECT WITH ANY STICK PRESS ANY BUTTON TO MODIFY

RETURN TO MAIN MENU

STANDARD PRICING

CUSTOM PRICING

FREE PLAY

COMPUTER DIFFICULTY

WINNING STREAK RESET

RETURN TO MAIN MENU

GAME ADJUSTMENT MENU

Note

Game Adjustments are explained in more detail on the following page.

Adjustment values set by DIP Switch, override adjustment values set by the menu system.

Game Adjustments

Standard Pricing

Standard Pricing allows the operator to choose any of the "Standard" selections for the Standard Pricing Table. See page 1-19.

Modify the setting value with any joystick. Press any control panel button to lock in the new value and return to the Adjustment Menu.

Custom Pricing

Custom Pricing allows the operator to install pricing other than that of the Standard Pricing Table. Custom Pricing also allows the operator to select the maximum amount of credits per game, the amount of credits required to start a game, and the amount or credits required to continue a game. This option is being adjusted from the Dip Switch Settings. In order to use custom pricing, switch #1 of DIP Switch Bank #2 must be set to on. See page 1-20.

Modify the setting value with any joystick. Press any control panel button to lock in a new value and return to the Adjustment Menu.

Free Play

This option selects free play. The setting choices for this adjustment are:

- No (factory)
- Yes

Computer Difficulty

This option determines the difficulty level of game play. The setting choices for this adjustment are:

- -1 (Extra Easy)
- -2 (Easy)
- -3 (Medium; factory)
- -4 (Hard)
- -5 (Extra Hard)

Winning Streak Reset

This option resets the highest scores after a selected amount of games are played. The setting choices for this adjustment are:

- Reset every 5,000 games.
- Reset every 10, 000 games (factory).
- Reset every 15, 000 games.
- Do Not Reset.

Standard Pricing Table

Name	Settings Credit/Coin	Left Chute	Center Chute	Right Chute	Fourth Chute
USA 1	1/25¢ (2 to Start; 2 to Continue)	25¢	\$1.00	25¢	
USA 2	1/25¢ (2 to Start; 1 to Continue)	25¢	\$1.00 \$1.00	25¢	
USA 3	1/25¢ (1 to Start; 1 to Continue)	25¢	\$1.00	25¢	
USA 4	1/50¢, 3/\$1.00 (1 to Start; 1 to Continue)	25¢	\$1.00 \$1.00	25¢	
USA 5	1/50¢, 4/\$1.00 (2 to Start; 1 to Continue)	25¢	\$1.00	25¢	
USA 6	1/50¢ (1 to Start; 1 to Continue)	25¢	\$1.00	25¢	
USA 7	1/50¢, 3/\$1.00 (1 to Start; 1 to Continue)	25¢	\$1.00	25¢	
USA 8	1/50¢, 4/\$1.00 (2 to Start; 2 to Continue)	25¢	\$1.00	25¢	
USAECA	1/25¢, 4/\$1.00 (2 to Start; 2 to Continue)	\$1.00	10¢	25\$	5¢
German 1	1/1DM, 6/5DM	1D M		5DM	
German 2	1/1DM, 7/5DM	1DM		5DM	
German 3	1/1DM, 8/5DM	1DM		5DM	
German 4	1/1DM, 5/5DM	1DM		5DM	
German 5	1/1DM, 6/5DM	1DM		5DM	
German ECA	1/1DM, 2/2DM, 6/5DM	5DM	1DM	2DM	
France 1	2/5F, 5/10F	5F		10F	
France 2	2/5F, 4/10F	5F		10F	
France 3	1/5F, 3/10F	5F		10F	
France 4	1/5F, 2/10F	5F		10F	
France 5	2/5F, 5/10F, 11/2 x 10F	5F		10F	
France 6	2/5F, 4/10F, 9/2 x 10F	5F		10F	
France 7	1/5F, 3/10F, 7/2 x 10F	5F		10F	
France 8	1/5F, 2/10F, 5/2 x 10F	5F		10F	
France 9	1/3 x 1F, 2/5F	1F		5 F	
France 10	1/2 x 1F, 3/5F	1F		5F	
France 11	1/3 x 1F, 2/5F, 5/2 x 5F	1F		5F	
France 12	1/2 x 1F, 3/5F, 7/2 x 5F	1F		5F	
France ECA	1/3 X 1F, 2/5F, 5/2 X 5F	1F	10F	5F	
Canada	1/2 x 25¢, 3/\$1.00	25¢		\$1.00	
Swiss 1	1/1F, 6/5F	1F		5F	
Swiss 2	1/1F, 7/5F	1F		5F	
Swiss 3	1/1F, 8/5F	1F		5F	
Italy	1/500 lire	500 lire		500 lire	
UK 1	1/20P, 3/50P	20P		50P	
UK 2	2/20P, 5/50P	20P		50P	
UK ECA	1/20P, 3/50 P, 7/£1.00	£1.00	20P	50P	10P
UK Elec w/CCU	1/30P, 2/50P, 4/£1.00	£1.00		ccu	
Spain 1	1/100 peseta, 6/500 peseta	100 peseta		500 peseta	
Spain 2	1/100 peseta, 5/500 peseta	100 peseta		500 peseta	
Australia 1 Australia 2	1/3 x 20¢, 2/\$1.00 1/5 x 20¢, 1/\$1.00	20¢ 20¢		\$1.00 \$1.00	
Japan 1	1/100 yen	100 yen		100 yen	
Japan 2	2/100 yen	100 yen		100 yen	
Austria 1	1/5 schilling, 2/10 schilling	5 schilling		10 schilling	
Austria 2	1/2 x 5 schilling, 3/2 x 10 schilling	5 schilling		10 schilling	
Belgium 1	1/20F	20F		20F	
Belgium 2	3/20F	20F		20F	
Belgium 3	2/20F	20F		20F	
Belgium ECA	1/20F	50F	5F	20F	
Sweden	1/3 x 1 krona, 2/5 krona	1 krona		5 krona	
New Zealand 1	1/3 x 20¢	20¢		20¢	
New Zealand 2	1/2 x 20¢	20¢		20¢	
Netherlands	1/1HFI, 3/2.5HFI	1HFI		2.5HFI	
Finland	1/1 markka	1 markka		1 markka	
Norway	1/2 x 1 krone, 3/5 x 1 krone	1 krone		1 krone	
Denmark	1/2 x 1 krone, 3/5 krone, 7/2 x 5 krone	1 krone		5 krone	
Antillies	1/25¢, 4/1 guilder	25¢		1 guilder	
	1/2 x 10 forint, 3/2 x 20 forint	10 forint		20 forint	

If option desired is not shown above, use Custom pricing.

Custom Pricing

SELECT WITH ANY STICK PRESS ANY BUTTON TO MODIFY

RETURN TO ADJ. MENU

- (1) LEFT CHUTE UNITS
- (1) RIGHT CHUTE UNITS
- (1) THIRD CHUTE UNITS
- (1) FOURTH CHUTE UNITS
- (2) UNITS/CREDITS
- (3) UNITS/BONUS
- (4) MINIMUM UNITS REQUIRED
- (5) CREDITS TO START
- (6) CREDITS TO CONTINUE
- (7) COINS PER DOLLAR

MAXIMUM CREDITS

RETURN TO ADJ. MENU

- (1) Coins inserted accumulate units. This adjustment specifies the number of units given for each coin in the fourth chute (see "units/credit").
- (2) This is the number of coin units required to buy one credit.
- (3) One bonus credit is awarded after this many coin units have accumulated.
- (4) No credits will be awarded until this many coin units have accumulated.
- (5) Each player needs this many credits to begin a game.
- (6) Each player needs this many credits to continue a game.
- (7) The detailed bookkeeping screen shows total collections based on this many coins per dollar. (Set to zero to disable the display of money totals.)
- (8) This is the limit for the credits counter. Additional coins inserted will be lost (factory setting: 30).

UTILITIES

Move any joystick to select the Utilities option on the Main Menu, then press any control panel button to activate it.

The Utilities Menu allows the owner/operator to clear the game's bookkeeping memory and to install a custom message.

SELECT WITH ANY STICK ACTIVATE WITH ANY BUTTON

CLEAR CREDITS

CLEAR COIN COUNTERS

CLEAR GAME AUDITS

RESET HIGH SCORE

DEFAULT ADJUSTMENTS

FULL FACTORY RESTORE

RETURN TO MAIN MENU

UTILITIES MENU

Move any joystick to select an item from the Utilities Menu, then press any control panel button to activate that item. After an item has been activated, you are given the option of resetting it or not.

For example:

CLEAR COIN COUNTERS? ARE YOU SURE?

YES NO

Move any joystick to choose YES or NO, then press any control panel button to lock in your choice and to return to the Utilities Menu.

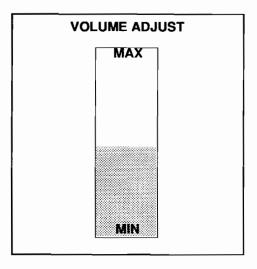
To exit the Utilities Menu, move any joystick to select RETURN TO MAIN MENU, then press any control panel button to activate your selection.

VOLUME ADJUST

Move any joystick to select the Volume Adjust option on the Main Menu, then press any control panel button to activate it.

The Volume Adjust allows the operator to control the audio level of the game.

Use any joystick, or the volume buttons, to adjust the volume to the desired level. The scale on the screen shows the volume level.



Press any button to return to the Main Menu.

Troubleshooting

inserted.

Game stays in test mode.

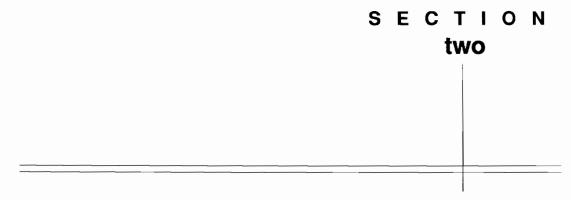
Problem	Possible Solution
No Picture or Distorted Picture.	Check for faulty video board or monitor. Check for disconnected video signal cable.
Tum game On and nothing happens.	Check line fuse. Check for +5Vdc at pins C, D, 3, and 4 of the JAMMA Connector.
No sound.	Check the speaker and speaker connection to pins L and 10 on the JAMMA Connector. Check volume control setting. Check for +12V dc at pins F and 6 on the JAMMA Connector. Check interboard wiring from CPU Board to the Sound Board. Also, check for -5V.
No General Illumination.	Check the 1A., S.B. fuse.
Move joystick and the screen player does not move.	Check for open wires between the joystick and CPU Board. Check for contamination on joystick switch contacts and CPU Board pins. Check for proper ground.
Press Start Button and nothing happens.	Check for open wires between the button and CPU Board. Check for contamination on CPU Board pins or the button switch blade contacts. Check for proper ground.
Press any control panel button and screen player does not move.	Check for open wires between the button and CPU Board. Check for contamination on CPU Board pins or the button switch blade contacts. Check for proper ground.
No credit given when coins are inserted.	Check DIP switch coin setting. Check for contamination on coin switch contacts. Check for an open wire between Coin Switch 1 and pin 16 on the JAMMA Connector or Coin Switch 2 and pin T of the JAMMA Connector.
Too many credits for number of coins	Check Game Pricing setting. Check for a short between pins T & 16

on the JAMMA Connector.

Check that the test switch on the DIP Switch is set to Off.

NOTES

MORTAL KOMBAT II



Parts

Cabinet Hardware

Rear Door Assembly Lock Retainer Plate Upper Door Lack Cam Lock Plate Door Bracket 20" Vent Hole Cover Door Cam Lock	A-16472-1 01-7264 01-8989 01-11285 01-11291 03-7602 20-6542-TB
Cabinet Assembly Leg Leveler Plate Shaft Caster	A-16971-40029 01-9155 02-4404
Leg Adjuster, 3.0" Caster Wheel	08-7377 20-9627
Power Switch Plate Assembly	
Power Switch	5640-13250-00
Bezel & Instruction Card Set 25" CRT Bezel	A-17454-1 03-8497
Instruction Card	31-1834
Coin Door Assembly Bill Validator Cable	09-50000-33 H-17438-2
Coin Meter with Diode	5580-13476-00
Glass Retainer Bracket	01-9607
20" Vent Hole Cover	03-7602
Lamp Lock	03-8327
Glass Edge Channel	03-8358
Clear Glass	08-7456-4
Clear Glass	08-7456-10
TAG Special Wrench	16-9074
Toggle Latch	20-9347
Long Arm Key T-20	20-9620
#555 Bulb, 6.3V	24-8768
Marquee Batainas	31-1830
Marquee Retainer	03-8252-2

PC Boards

Always Replace PC Boards Exactly As Shown On Page 3-38.

Electronic Rack	A-17296-2
Power Supply	A-15202-1
T-Unit 2 CPU w/ Memory Expansion	A-17266 -40029
DCS Sound Board	A-17319-40029

Control Panel

Housing & Control Panel Assembly A-17293-2
Control Panel Assembly A-17294-40029

Plate A-17430 Control Panel Cable H-17295-2 Security Latch Bracket 01-11955 Con. Panel Latch Brkt. 01-11996 Clear Overlay 03-9011 **Red Pushbutton** 20-9687-1 White Pushbutton 20-9687-2 Blue Pushbutton 20-9687-3 8-way Joystick 20-9694-1 Screened Overlay 31-1828

Housing w/hinge A-17429-40029

Toggle Latch 20-9347

Fluorescent Lamp Assembly

Fluorescent Housing & Bracket A-15890 Fluorescent Lamp Cable H-16303

 Starter
 20-8748-1

 Ballast
 20-8749-8

 Lamp Holders
 20-9788

 Starter Socket
 20-9789

 18" Fluorescent Bulb, 15W
 24-8809

Speakers

Speaker & Cap Assembly A-14968 Speaker Cable H-17352

Piezo Speaker Cable H-17433 Speaker Grille 01-11859

Cap. $10\mu f$, non-pol, 50V,20% 5045-12914-00 Tweeter Speaker, 4Ω , 15W 5555-12924-00 6" Speaker, 4Ω , 25W 5555-12929-00

Transformer Assembly

Power Pack Assembly A-15916

Power Pack Chassis Assy
Line Cord Assembly
Power Pack Jumper Cable
Transformer Jumper Cable
Line Fitter Jumper Cable
G.I. Jumper Cable
H-15922
H-15945

Varistor, 130V, 10J 5017-09044-00
Line Filter, 5 Amp 5102-10310-00
Power Transformer 5610-13326-00
Fuse, SB, 1A, 250V 5731-06569-00
Fuse Holder, Panel 5733-12869-00

Cables

Power Pack Jumper	H-13265
Transformer Jumper	H-13378
AC "Y" Cable	H-14004
Switch Power Cable	H-15203
Line Filter Jumper Cable	H-15922
G.I. Jumper Cable	H-15945
Fluorescent Lamp Cable	H-16303
Dixie Narco Cable	H-17019
Control Panel Cable	H-17295-2
Main Harness Cable	H-17297-2
Speaker Cable	H-17352
Piezo Cable	H-17433
Bill Validator Cable	H-17438-2
Sound Power Speaker Cable	H-17442-2
Line Voltage Cable	H-17507-2
20-pin Ribbon Cable	5795-10937-18

Monitor

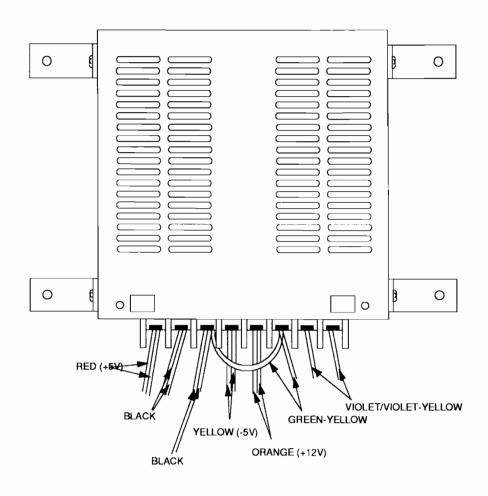
Monitor Support Bracket 01-10819 25" Monitor 5675-12787-04

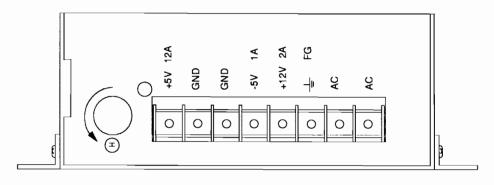
Manuals

Instruction Manual 16-40029-101 DBV Installation Instructions 16-9637

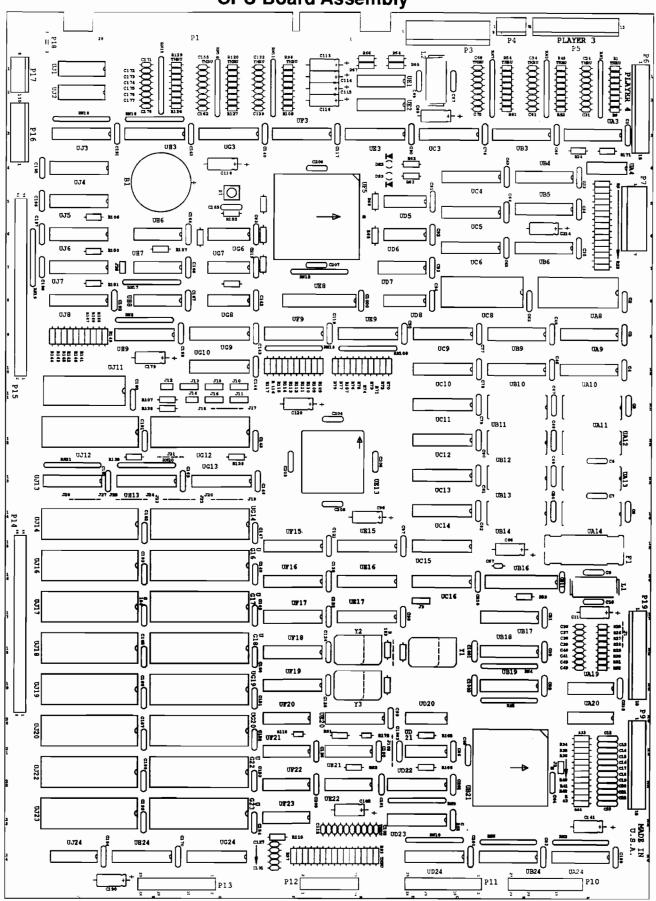
A-15202-1 Power Supply Switcher Assembly

Part Number	Description
H-15203	Switch Power Cable
01-10500	Mounting Bracket
01-10573	Shield
20-9920	P/S Switcher Supply





A-17265-40029 CPU Board Assembly

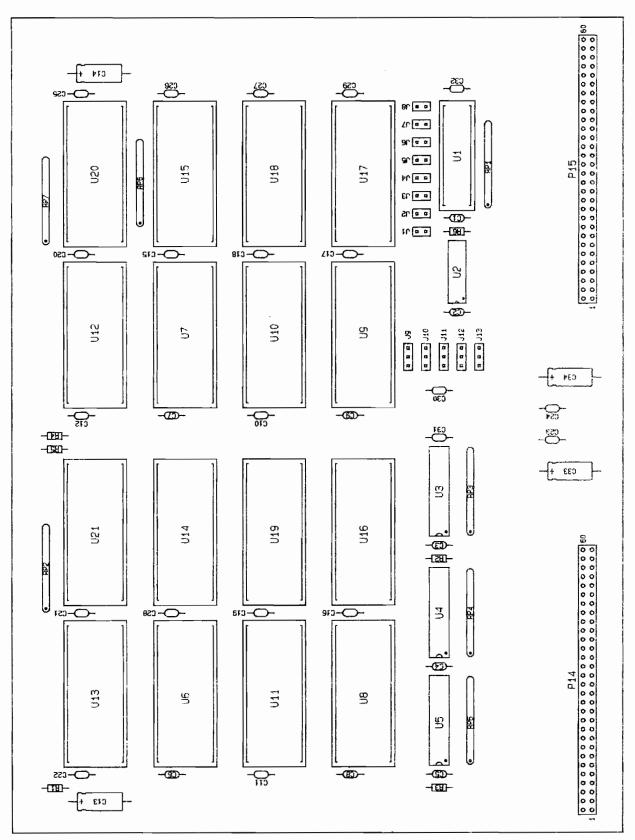


A-17265-40029 CPU Board Parts

Part Number	Dort	December	Dont North or	D	D t t.
Part Number	Part Designator	Description	Part Number	Part Designator	Description
	Deolghato.			Designator	
5434-12255-00	UH6	IC, MAX691	5043-08980-00	C1-C4, C9, C10, C32-	.01uF Cap.,
5370-12602-00	UE1	IC, ULN2064		C35,. C44-C46, C51-C53,	
5340-12958-00	UE22, UF22, UF23	IC, 26LS31		C62-C65, C76-C86, C90-	
5340-12959-00	UE21, UF20, UF21	IC, 26LS32A		C95, C97-C101, C117,	
5340-13020-00	W4, W5, W6, W7	IC, 44C256		C119, C121-C126, C140,	
5340-12558-00	W11	IC, 5565		C142-C154, C163, C164,	
5340-13322-00 5283-10551-00	UA8, UC8 UG8	IC, 5C2568		C166-C170, C180-C189, C191-C194, C199-C213,	
5283-10552-00	UD6	IC, 74F00 IC, 74F04		C1000	
5281-09215-00	UD8	IC, 74LS04	5043-08996-00	C5-C8, C47-C50, C195-	.1uF Cap., 20%
5280-09309-00	UA4	IC, 7407	00 10 00000 00	C198,C1001-C1003	.таг Оар., 2070
5283-12488-00	UG6	IC, 74F08	5040-09343-00	C11, C66, C88, C96,	10uF Cap., 20V
5281-09500-00	UD20	IC, 74LS32		C102, C115, C116,	, , ,
5321-13466-00	UD21	IC, 74AC74		C118, C120, C141,	
5281-09737-00	UD5	IC, 74LS86		C179, C190, C214	
5281-09745-00	UH8	IC, 74LS138	5671-13732-00	DS2, DS3	LED, Red
5281-13438-00	UH7	IC, 74LS155A	5551-09822-00	L2	4.7uH Coil, 3.0A
5281-09733-00	UE2	IC, 74LS174	5880-11056-00	B1	Battery, Lithium 3.0V
5320-13437-00	UD22	IC, 74ACTQ244	5881-12315-00	B1	Battery Holder
5283-12890-00	UB24, UD23	IC, 74F244	5700-09915-00	UF17	20-pin Socket
5281-09867-00	UG9	IC, 74LS244	5700-1 20 47-00	UE8	24-pin Socket
5320-13436-00	UB18, UB19	IC, 74ACTQ245	5700-1 2088 -00	UG12, UG14, UG16-UG20,	32-pin Socket
5317-12208-00	UB6, UC6, UC11,	IC, 74ALS245		UG22, UG23, UJ12, UJ14,	
	UC12, UC13, UC14,		5700-12253-00	UJ16-UJ20, UJ22, UJ23 UB21	69 nin Cocket
	UE15, UE16, UF15,		5700-12424-00	UF5	68-pin Socket 84-pin Socket
	UF16, UH9, UH13, UJ8, UJ13		5791-12461-05	P4	5-pin Header
5283-12889-00	UA24, UD24	IC, 74F245	5791-1 246 1-06	P17	6-pin Header
5283-13319-00	UD7	IC, 74F253	5791-12461-10	P16	10-pin Header
5283-13320-00	UB9, UF9, UF18, UG10	IC, 74F373	5791-12461-15	P5	15-pin Header
5281-09486-00	UA9, UA10, UB5, UB10,	IC, 74LS374	5791-1 086 2-07	P7	7-pin Header
	UC5, UC9, UC10, UC15,		5791-1 086 2-09	P3	9-pin Header
	UC16, UE17, UE20, UF19,		5791- 0943 7-00	P12	20-pin Header
	UG13		5019- 0966 9-00	RN4, RN5, RN13	1K Ω Res. 5%, 1/8W
5317-12211-00	UB4, UC4	IC, 74ALS541	5010-13472-00	J100, J101	47 Ω Res. 5%, 1/8W
5315-13435-00	UA3, UB3, UC3, UE3,	IC, 74HCT541	5010-13473-00	R155	39 Ω Res. 5%, 1/8W
5281-12887-00	UF3, UG3 UE9, UH3, W3	74LS541	5010-13474-00 5641-1 25 51-00	R158, R167-R170 S1	68 Ω Res. 5%, 1/8W Sw-Push Button
5521-13424-03	UE19	8MHz Oscillator	5283-12489-00	UG7	IC, 74F32
5521-13424-01	UD18	50MHz Oscillator	5796-1 383 6-00	P14, P15	60-pin Connector
5645-09025-00	SW1, SW2	DIP, 8-switch	5010-09534-00	J18, J19, J22, J24, J28,	0 Ω Res. Jumper
5010-13364-00	R70-R77, R79, R106,	33 Ω Res. 5%, 1/8W		R154	·
	R108-R117, R140-R147,		5400-12220-00	UB21	IC, TMS34010-50
	R149, R150		A-16217	UE8	IC, 20L8
5010-13363-00	R24, R69, R82-R97,	100 Ω Res. 5%, 1/8W	5410-1 38 16-00	UF5	IC, 1020A-1
	R119, R128, R137,		A-17480 A 5343 40030 19	UF17	IC, 16L8
5010-13372-00	R148, R151, R171 R81	220 O Don F9/ 1/9W/	A-5343-40029-18 A-5343-40029-1	UG12 UG14	EPROM EPROM
5010-13371-00	R62, R63, R66, R67	220 Ω Res. 5%, 1/8W 330 Ω Res. 5%, 1/8W	A-5343-40029-5	UG16	EPROM
5010-13366-00	R45-R51, R54, R57,	470 Ω Res. 5%, 1/8W	A-5343-40029-9	UG17	EPROM
	R58, R98-R105,		A-5343-40029-13	UG18	EPROM
	R118, R120-R127,		A-5343-40029-3	UG19	EPROM
	R129-R136, R172		A-5343-40029-7	UG20	EPROM
5010-13361-00	R13, R14, R19	1K Ω Res. 2%, 1/8W	A-5343-40029-11	UG22	EPROM
5010-13362-00	R12, R15, R20	2K Ω Res. 2%, 1/8W	A-5343-40029-15	UG23	EPROM
5010-13368-00	R11, R16, R21	3.9K Ω Res. 5%, 1/8W	A-5343-40029-17	UJ12	EPROM
5010-13365-00	R53, R107, R138, R139,	4.7K Ω Res. 5%, 1/8W	A-5343-40029-2 A-5343-40029-6	W14 UJ16	EPROM EPROM
5010-13369-00	R152, R157, R165, R166 R10, R17, R22	8.2K Ω Res. 5%, 1/8W	A-5343-40029-10	UJ17	EPROM
5010-13370-00	R9, R18, R23	15K Ω Res. 5%, 1/8W	A-5343-40029-14	W18	EPROM
5019-09362-00	RN1-RN3, RN6,	4.7K Ω Res SIP, 5%, 1/8W	A-5343-40029-4	UJ19	EPROM
	RN7,RN9-RN12,	, , , , , , , , , , , , , , , , , , , ,	A-5343-40029-8	W20	EPROM
	RN14-RN18,RN100		A-5343-40029-12	UJ22	EPROM
5048-11030-00	C165	470pF Cap., 10%	A-5343-40029-16	UJ23	EPROM
5048-13375-00	C54-C60, C67, C68	100pF Cap.,10%	5410-12862-00	UE13	IC, DMA2
	C71, C72, C103-C112,		5340-13321-00	UA11-UA14, UB11-UB14	IC, 48121, 80nsec
	C127-C139, C155-C162,				
5040 44004 00	C171-C178	004. F O :001			
5048-11031-00	C87, C89	.001uF Cap., 10%			

Notes: 1, See Section 3 For Schematic; .2 * = Not for individual sale.

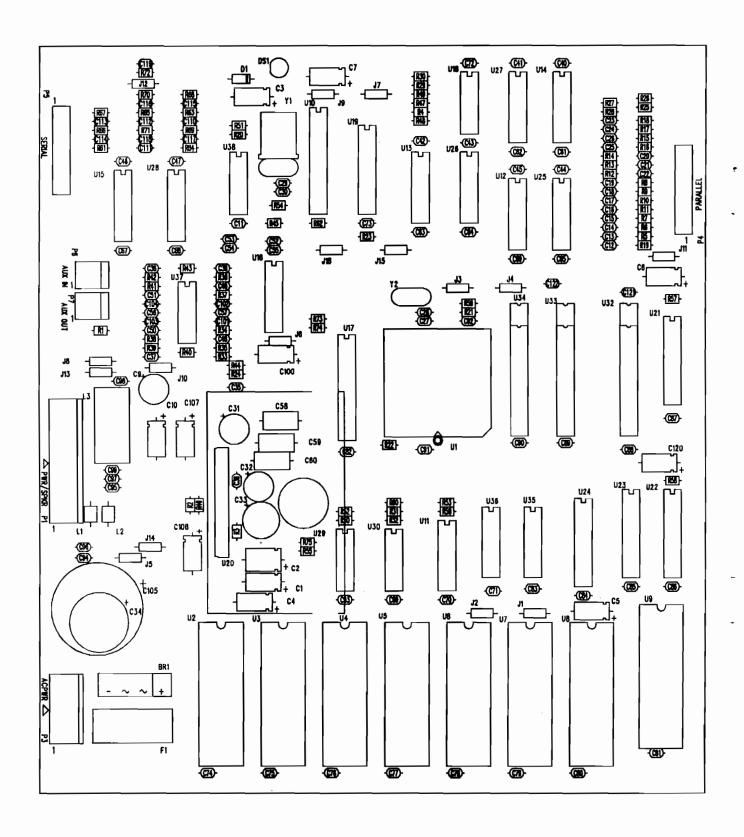
A-17264-40029 Memory Expansion Board Assembly



A-17264-40029 Memory Expansion Board Parts

Part Number	Part Description Designator			
5043-08980-00	C1-C12, C15-C32	01μf Cap. 50V		
5040-09343-00	C13, C14, C33, C34	10μf Cap. 16V		
5010-13365- 00	R1, R6	4.7KΩ Res. 1/8W, 5%		
5010-13363-00	R2-R5	100Ω Res. 1/8W, 5%		
5019-09367-00	RP3-RP7	4.7Ω SIP Res. 9R, 10 pin		
5320-13437-00	U3-U5	IC, 74ACTQ244		
5700-12088-00	U6-U21	32-pin Socket, .600		
5796-13837-00	P14, P15	60-pin Connector Header		
A-5343-40029-19	U8	EPROM		
A-5343-40029-20	U9	EPROM		
A-5343-40029-21	U6	EPROM		
A-5343-40029-22	U7	EPROM		
A-5343-40029-23	U11	EPROM		
A-5343-40029-24	U10	EPRO M		
A-5343-40029-25	U13	EPRO M		
A-5343-40029-26	U12	EPRO M		

A-17319-40029 Sound Board Assembly



A-17319-40029 Sound Board Parts

Part Number	Part Designator			Part Designator	Description
			5280-08974-00	U29	IC, 7406
20-9915	J5, J8, J10, J13	Wire Insulated Jumper	5281-09486-00	U19	IC, 74LS374
5010-09534-00	J1, J4, J6, J7, J15	0Ω Res., 1/4W	5281-09487-00	U18	IC, 74LS74
5010-13363-00	R45, R48, R49, R51,	100Ω Res., 5%	5283-10551-00	U30	IC, 74F00
	R57-R60		5311-10948-00	U11	IC, 74HC138
5010-1 3365-0 0	R21-R23, R25-R29,	4.7KΩ Res., 5%	5311-12 043 -00	U35, U36	IC, 74HC174
	R31, R32, R50, R53,		5311-12287-00	U21-U23	IC, 74HC541
	R55, R56, R73-R75		5311-12538-00	U38	IC, 74HC14
5010-13366-00	R4	470Ω Res., 5%	5320-13436-00	U24	IC, 74ACTQ245
5010-13371-00	R52	330Ω Res., 5%	5340-12 958 -00	U25-U27	IC, 26LS31
5010-13372-00	R47	220Ω Res., 5%	5340-12959-00	U12-U14	IC, 26LS32A
5010-13472-00	R5-R19	47Ω Res., 5%	5340-13304-00	U32-U34	IC, SRAM, 2Kx8
5010-1 33 61-00	R1	1KΩ Res., 1/8W, 2%	5370-127 30 -00	U37	IC, TL084
5013-13842-00	R33-R44	6.19KΩ Res., 1%	5370-13308-00	U20	IC, MB3731 SIP
5010-13841-00	R24	47KΩ Res., 5%, 200V	5371-13299-00	U16	IC, AD1851
5010-13844-00	R3, R20	100KΩ Res., 5%, 200V	5520-13301-00	Y2	10MHz Crystal
5010-13858-00	R2	820Ω Res., 1/8W, 5%	5551-09822-00	L3	4.7μH Inductor
5010-13370-00	R46	15KΩ Res., 1/8W, 5%	5556-12513-00	L1, L2	Ferrite Bead
5040-09332-00	C2	47μf Cap., ±20%, Axial	5671-1 373 2-00	DS1	Display LED, Red
5040-09343-00	C1, C2, C4-C7,	10µf Сар., ±20%, Axial	5700-12 088-0 0	U2-U9	32-pin Socket
	C10, C100, C106,		5700-12253-00	U1	68-pin Socket
	C107, C120		5700-12047-00	U17	24-pin Socket
5043-08980-00	C39-C45	.01µf Cap., +80%/-20%, Axial	5791-09437-00	P4	100 C 10 x 2
5043-08996-00	C3, C52-C57,	.1μf Cap., ±20%, Axial	5791-10862-02	P6, P7	2H Str Sq Pin .156
	C61-C61, C69-C99,		5791-10862-05	P3	5H Str Sq Pin .156
	C121, C122		5791-10862-09	P1	9H Str Sq Pin .156
5045-12926-00	C58-C60	.1μf Cap., ±10%, Axial Film	5400-13298-00	U1	IC, ADSP2105 PLCC
5048-11028-00	C27, C28	22pf Cap., ±20%, Axiai	A-17481	U17	IC, PLD GAL20V8, 25ns
5048-13375-00	C11-C26	100pf Cap., ±20%, Axial	A-5343-40029-35	U2	EPROM
5048-13608-00	C51	6800pf Cap., 5%, Axial	A-5343-40029-36	U3	EPROM
5048-13609-00	C48-C50	3900pf Cap., 5%, Axial	A-5354-40029-37	U4	EPROM
5048-13610-00	C35-C38	1000pf Cap., ±20%, Axial	A-5343-40029-38	U5	EPROM
5048-13611-00	C101-C104	680pf Cap., ±20%, Axial	A-5343-40029-39	U6	EPROM
5070-08919-00	D5	Diode, 1N4148	A-5343-40029-40	U7	EPROM
01-10516	23	Heat Sink	A-3343-40025-40	07	LI NOW

NOTES

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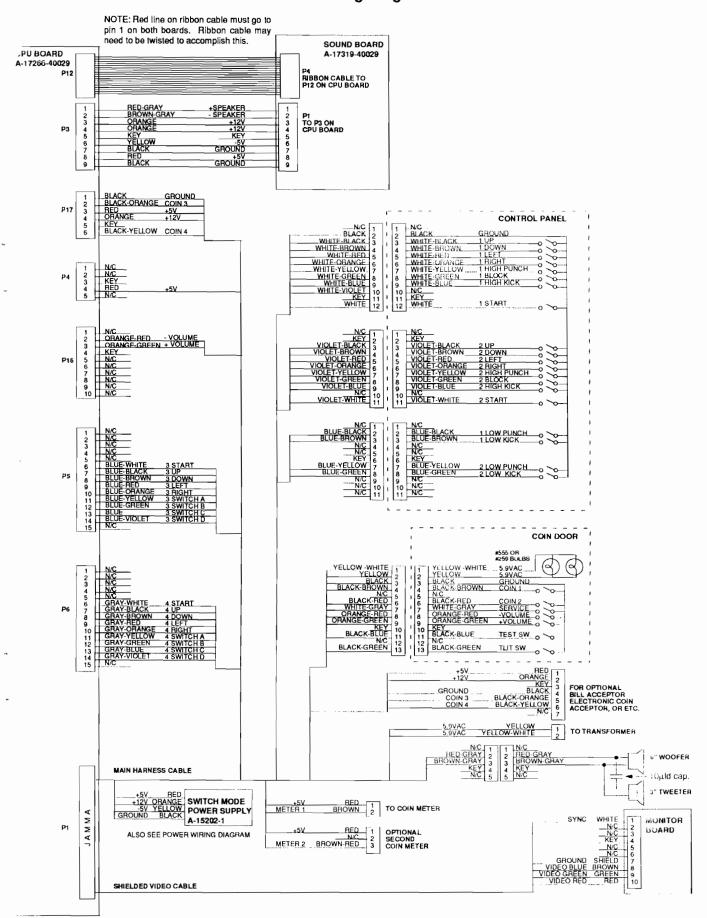
MORTAL KOMBAT II

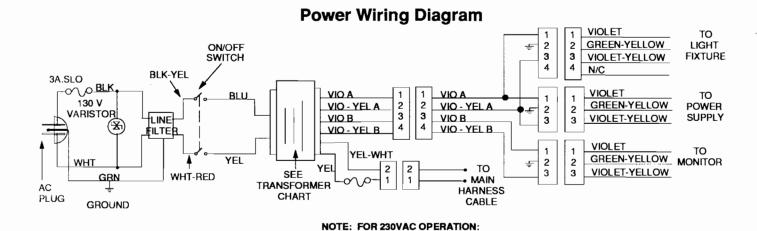
S E C T I O N three

Schematics and Wiring Diagrams

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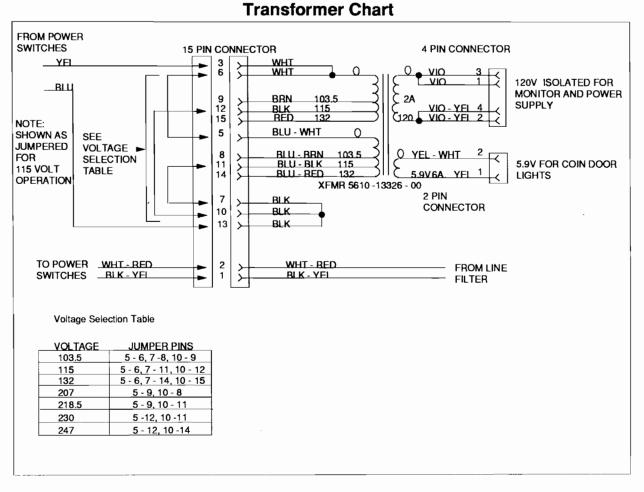
Cabinet Wiring Diagram

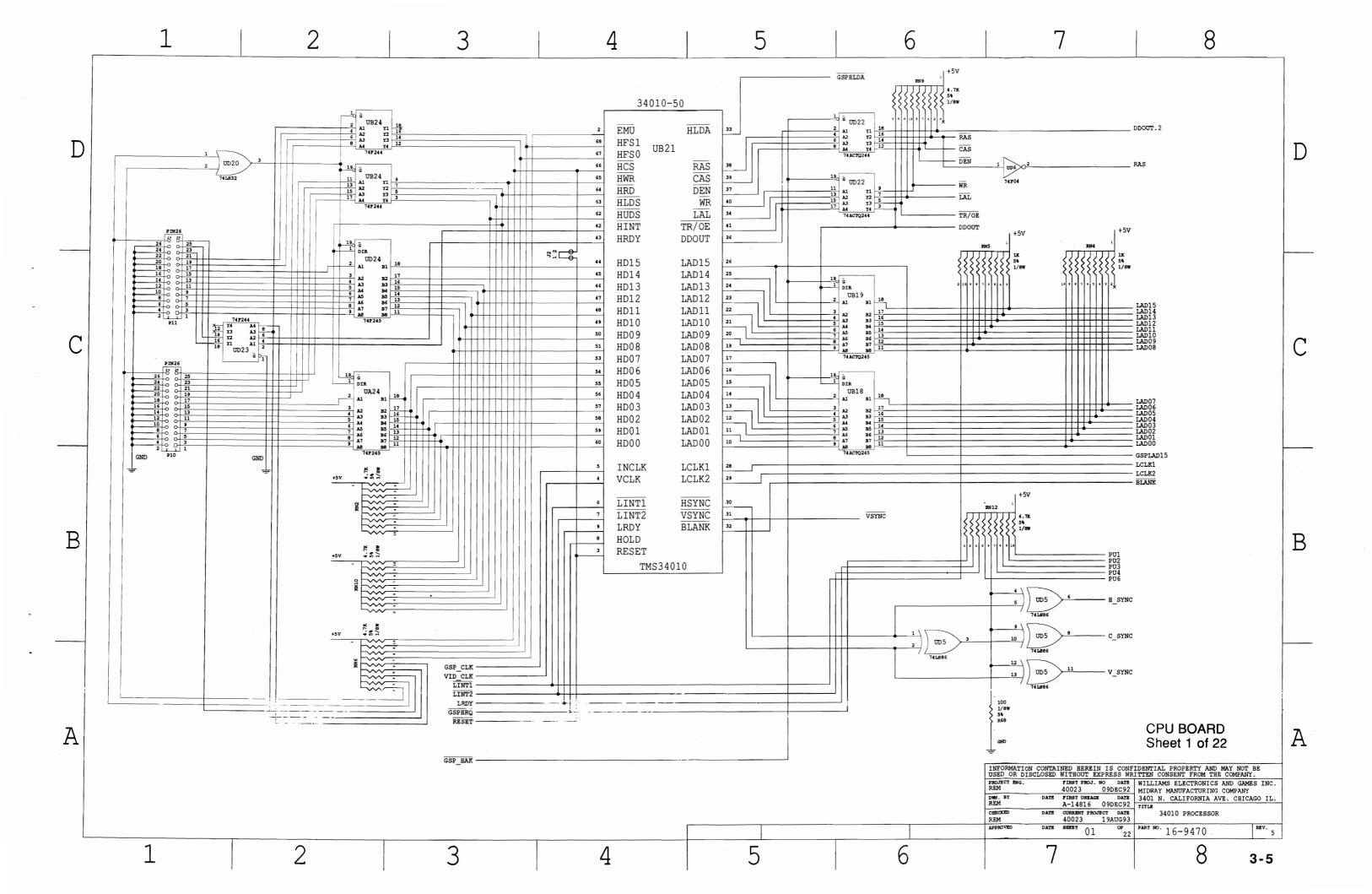


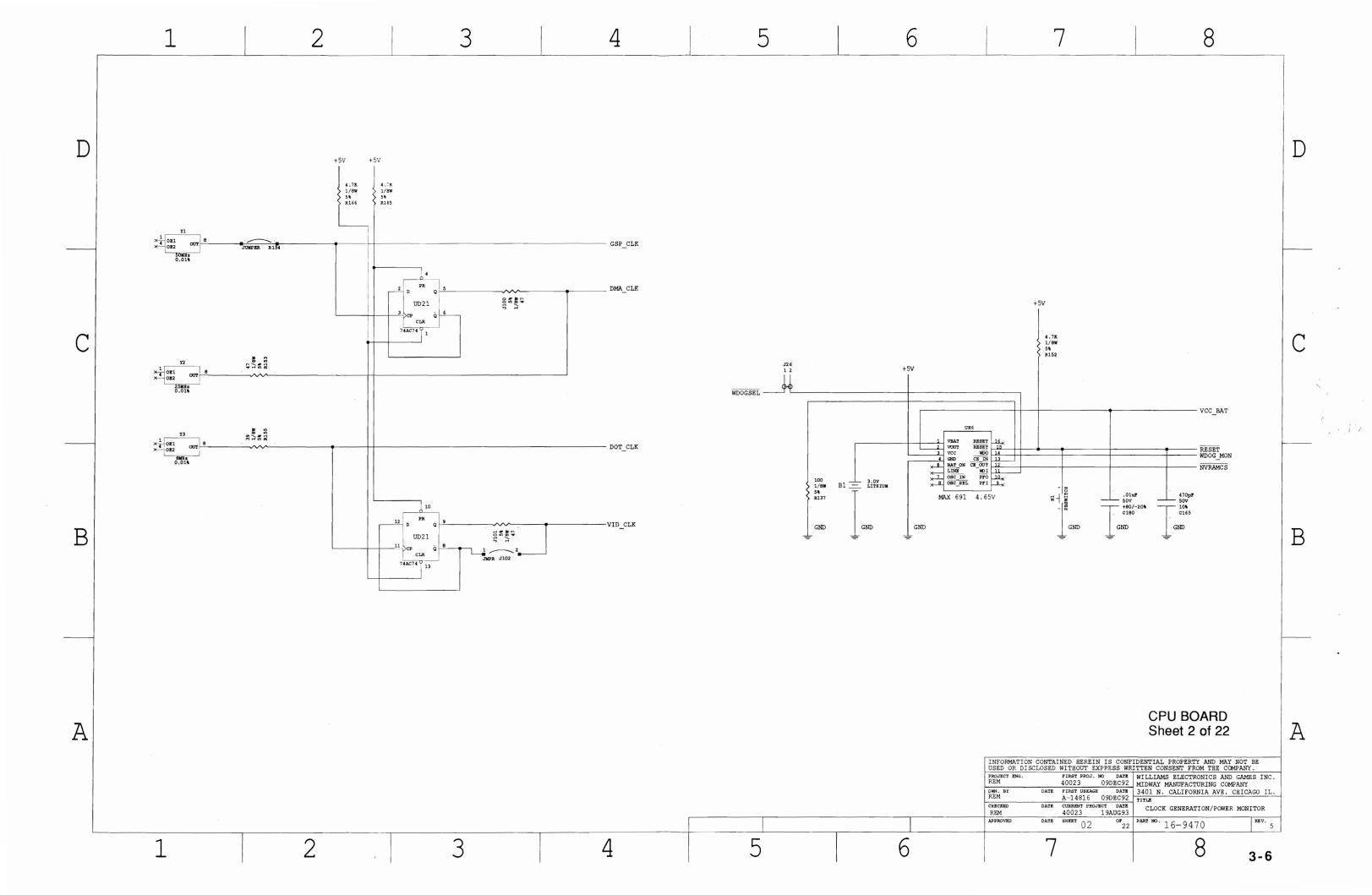


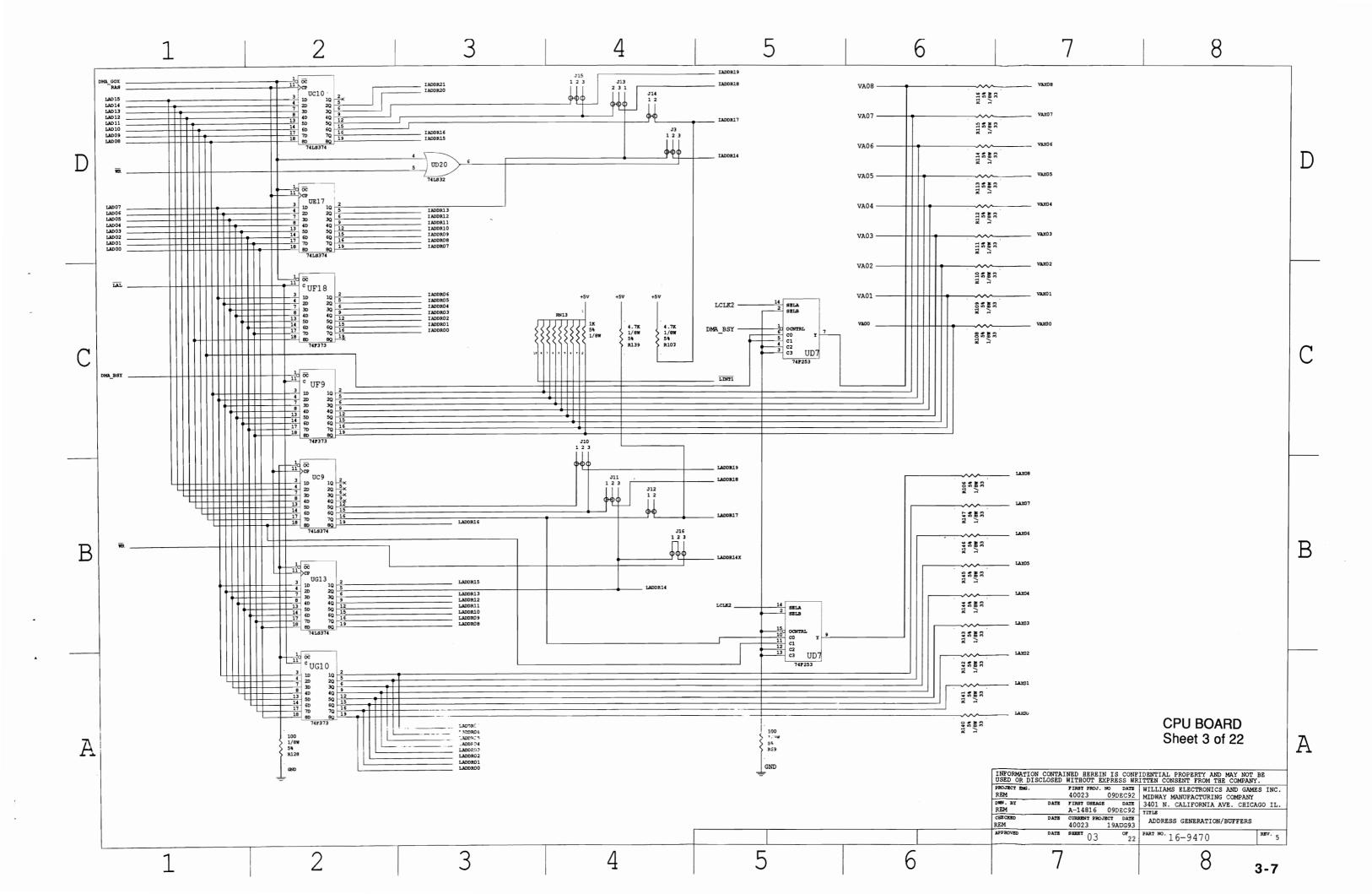
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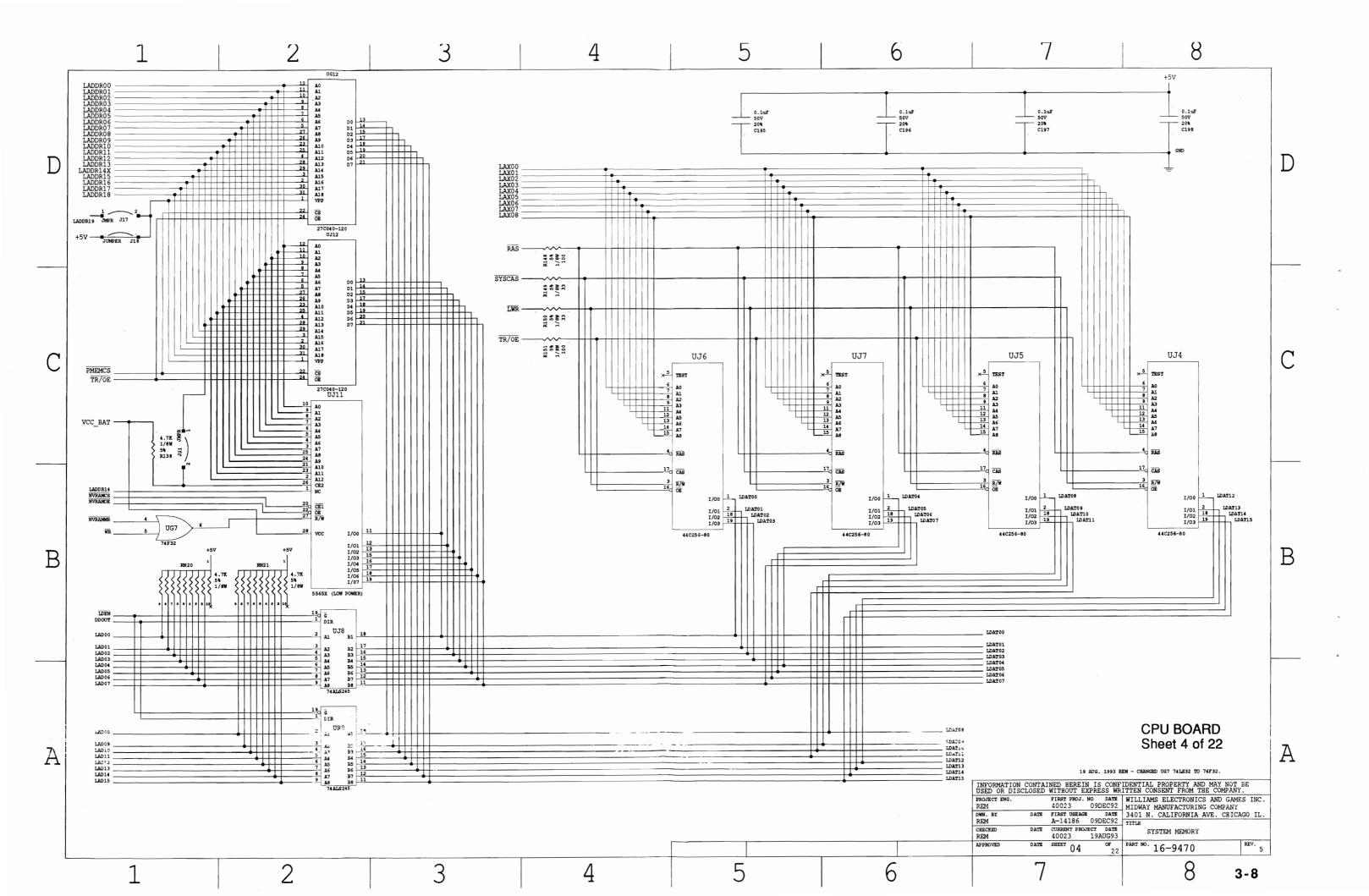
FUSE IS 2.0A SLOW BLOW.
 VARISTOR IS 250V.

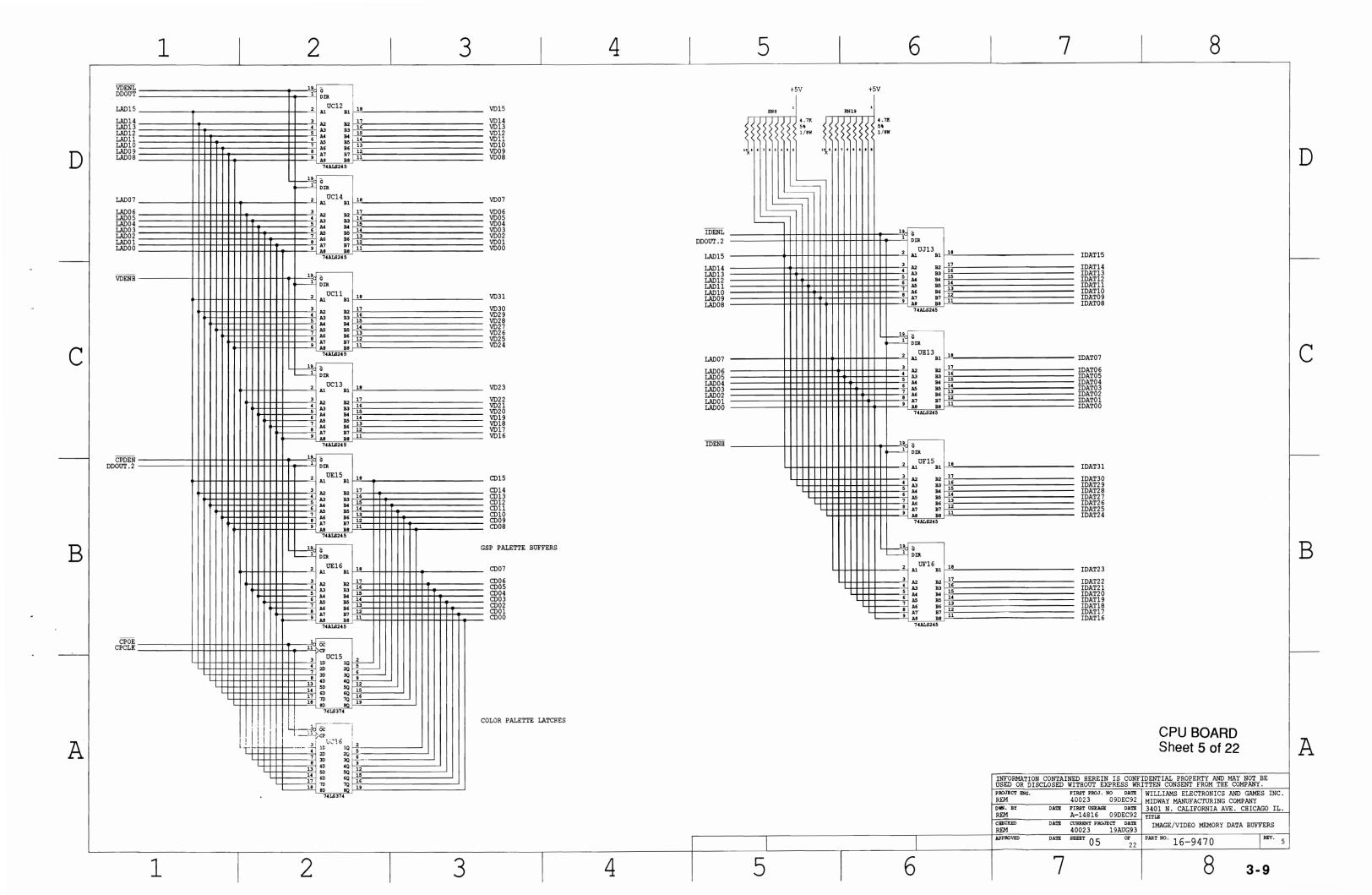


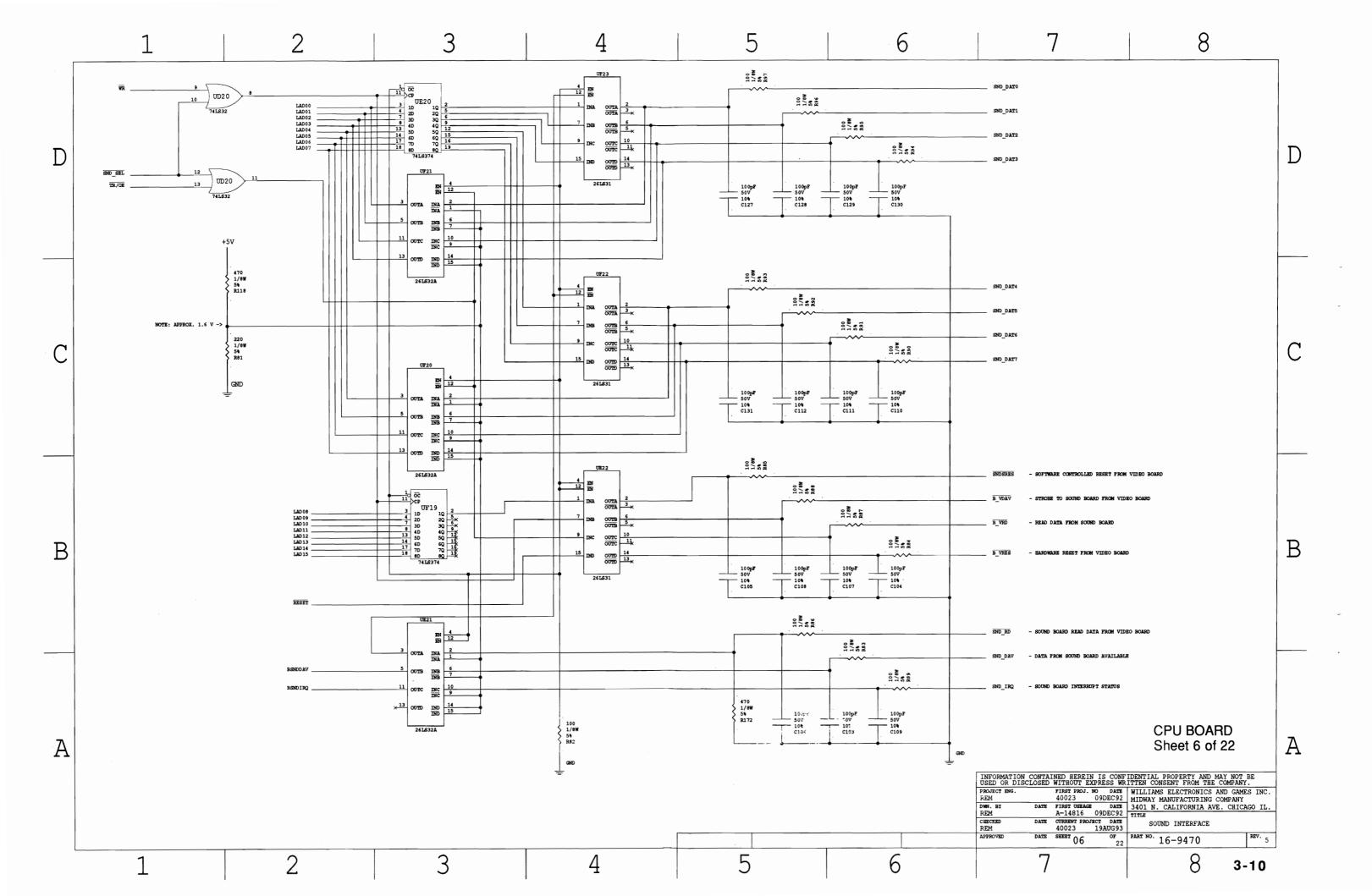


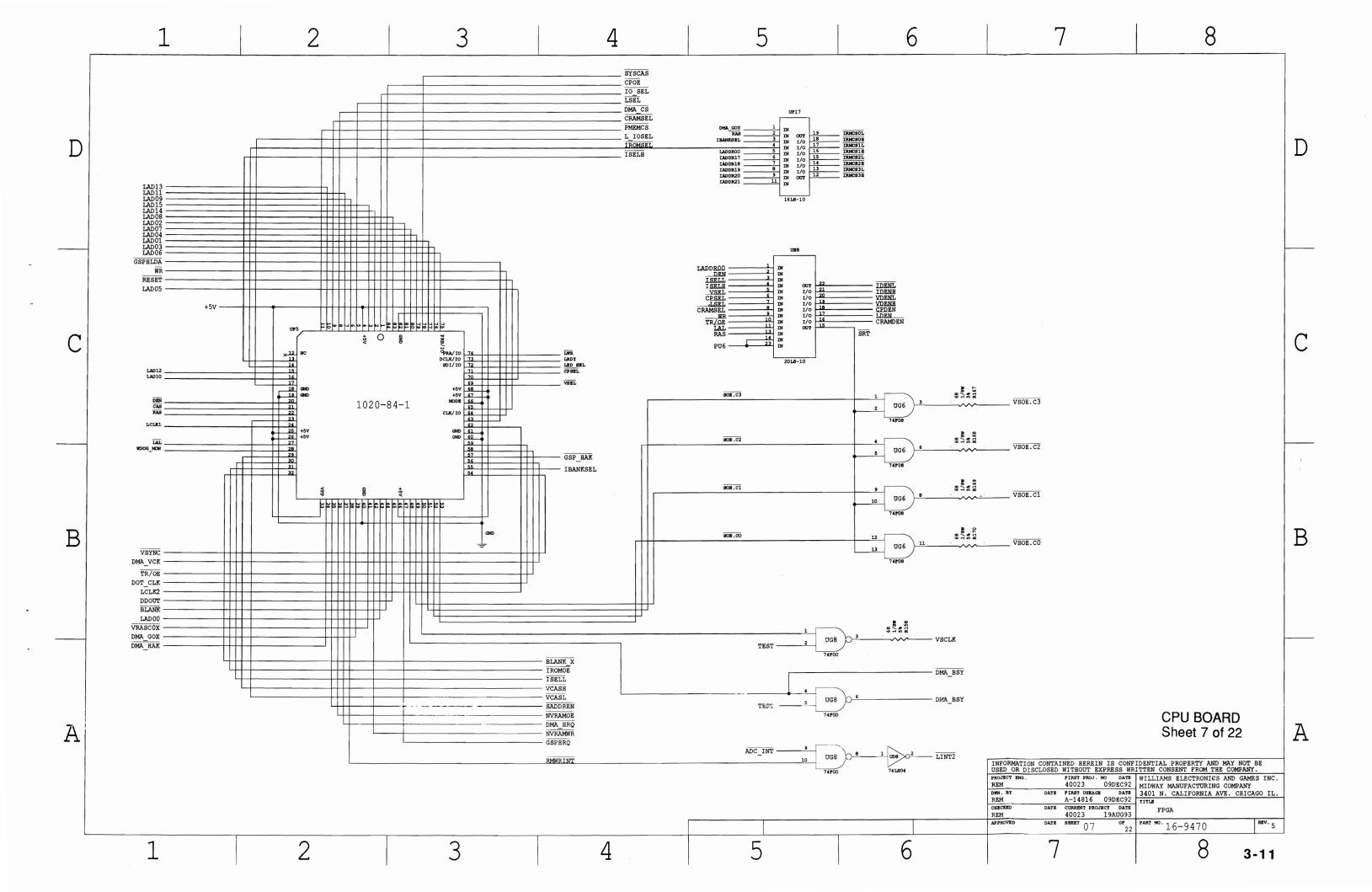


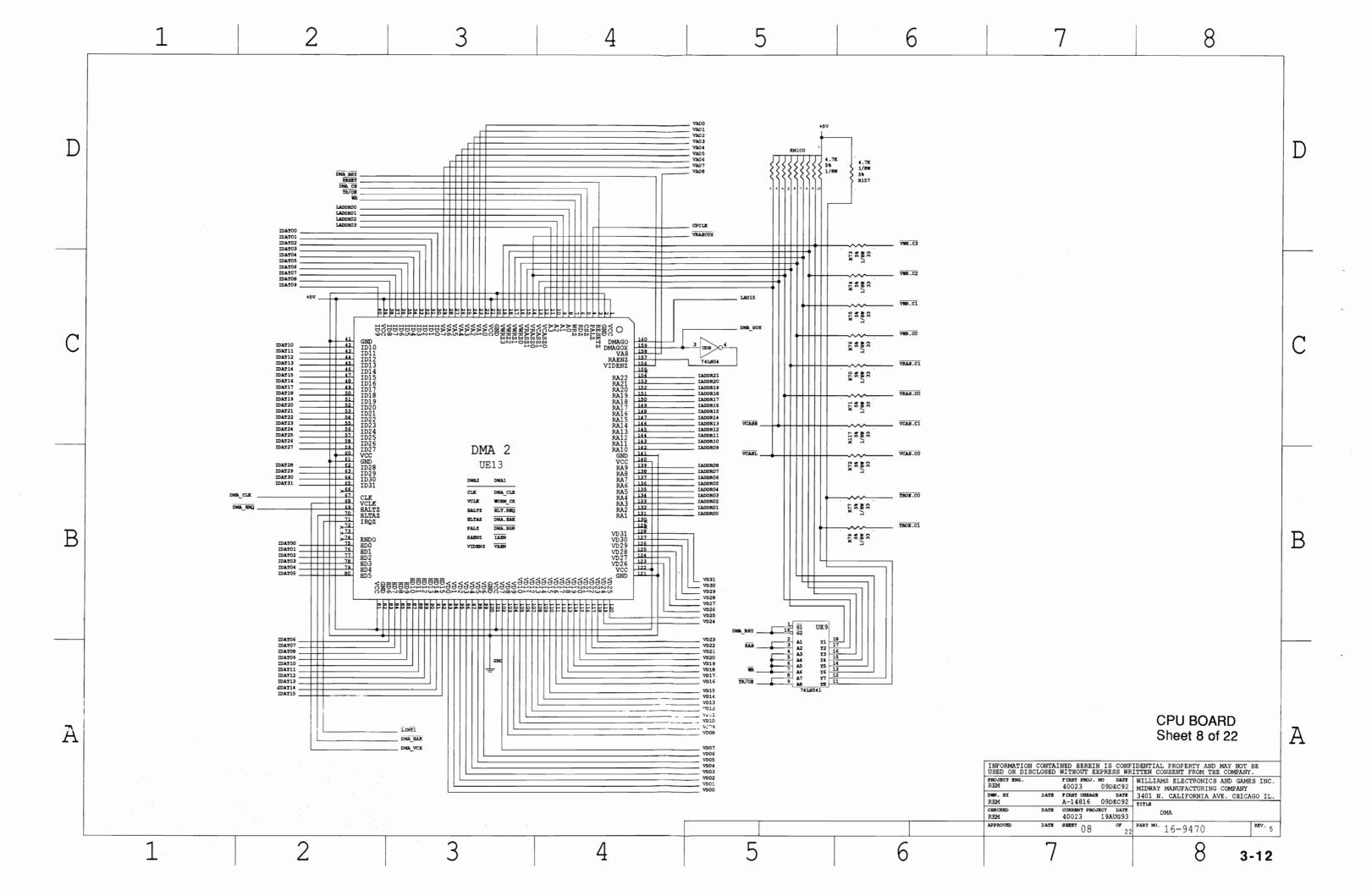


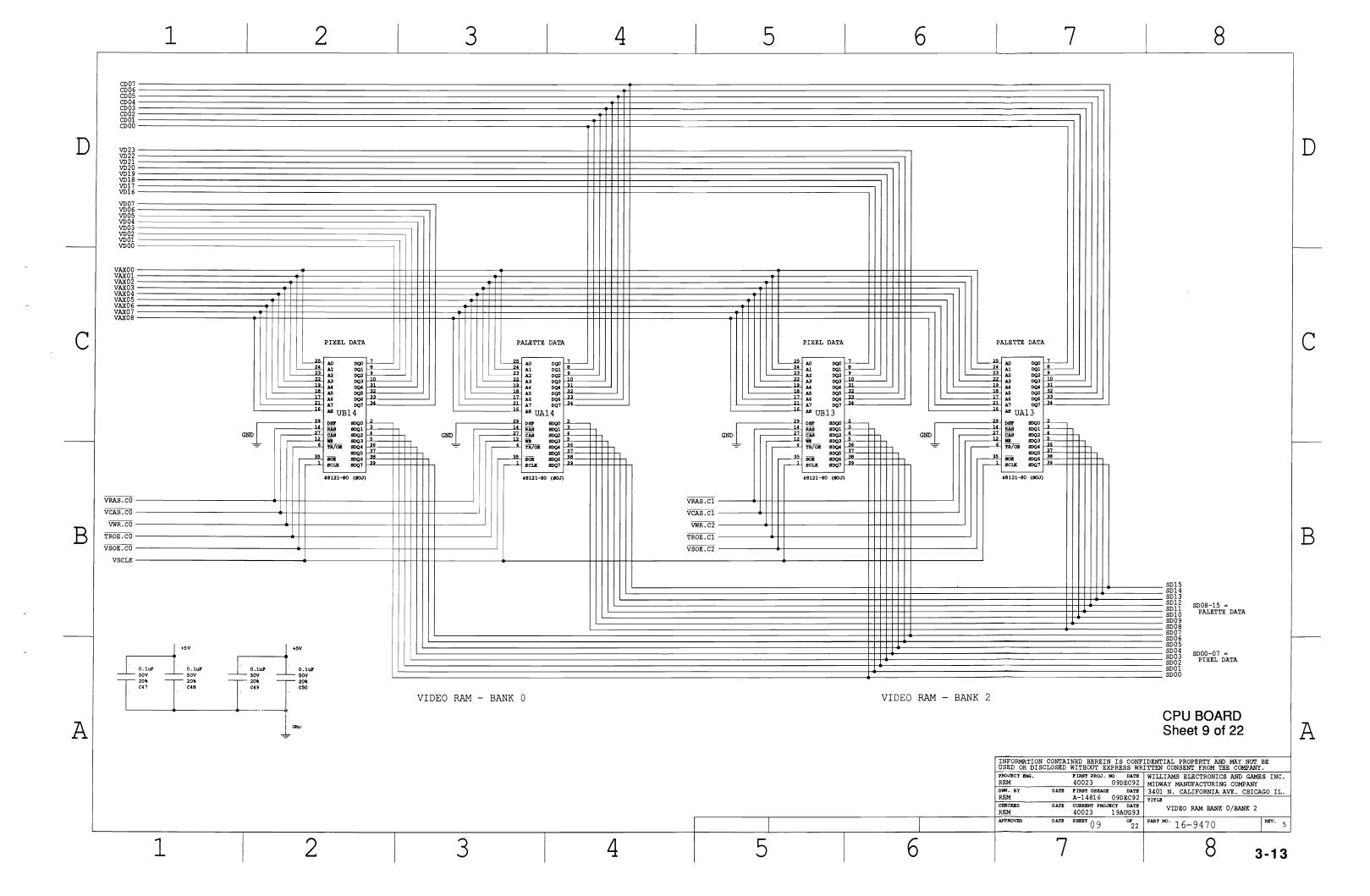


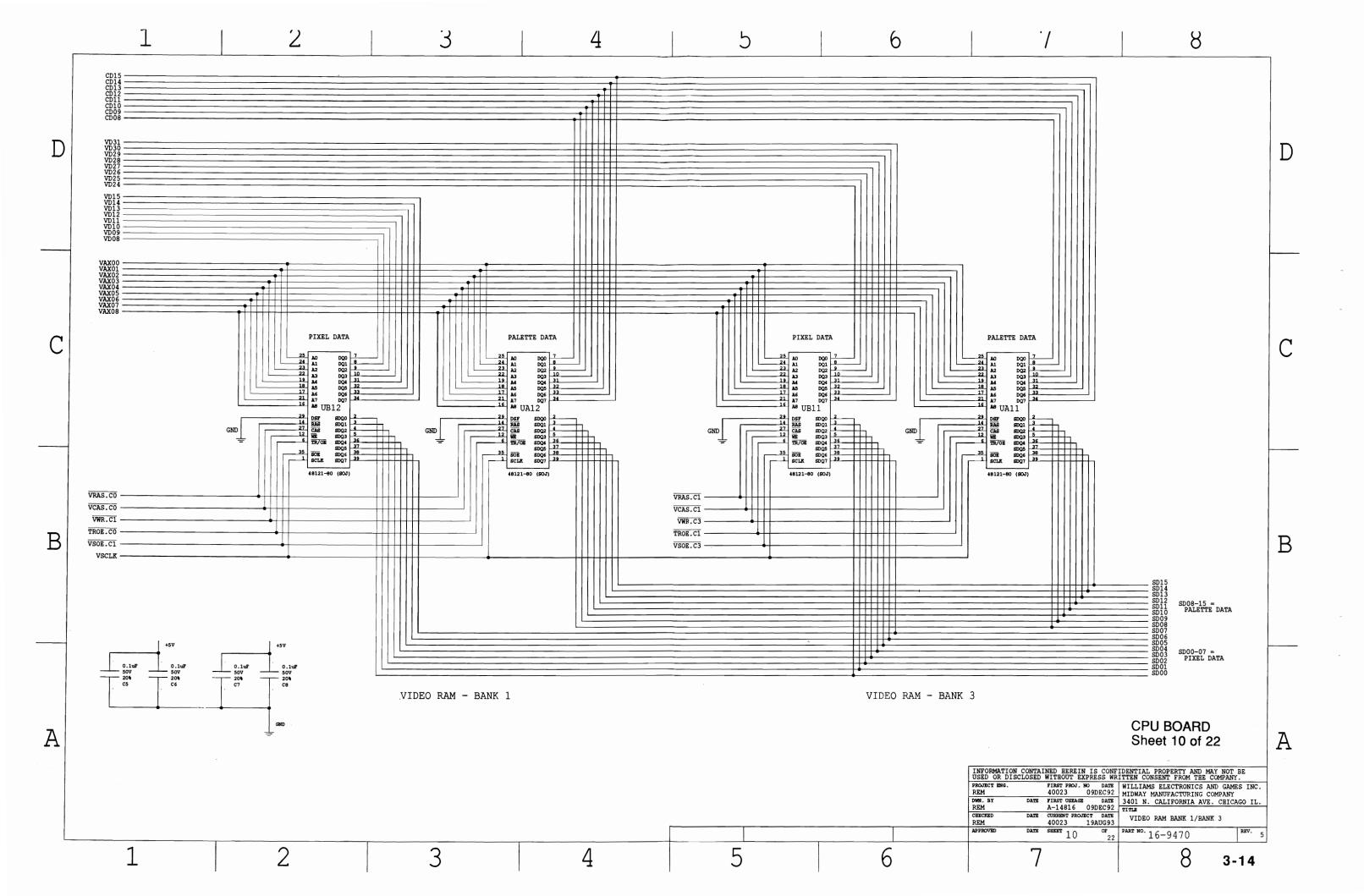


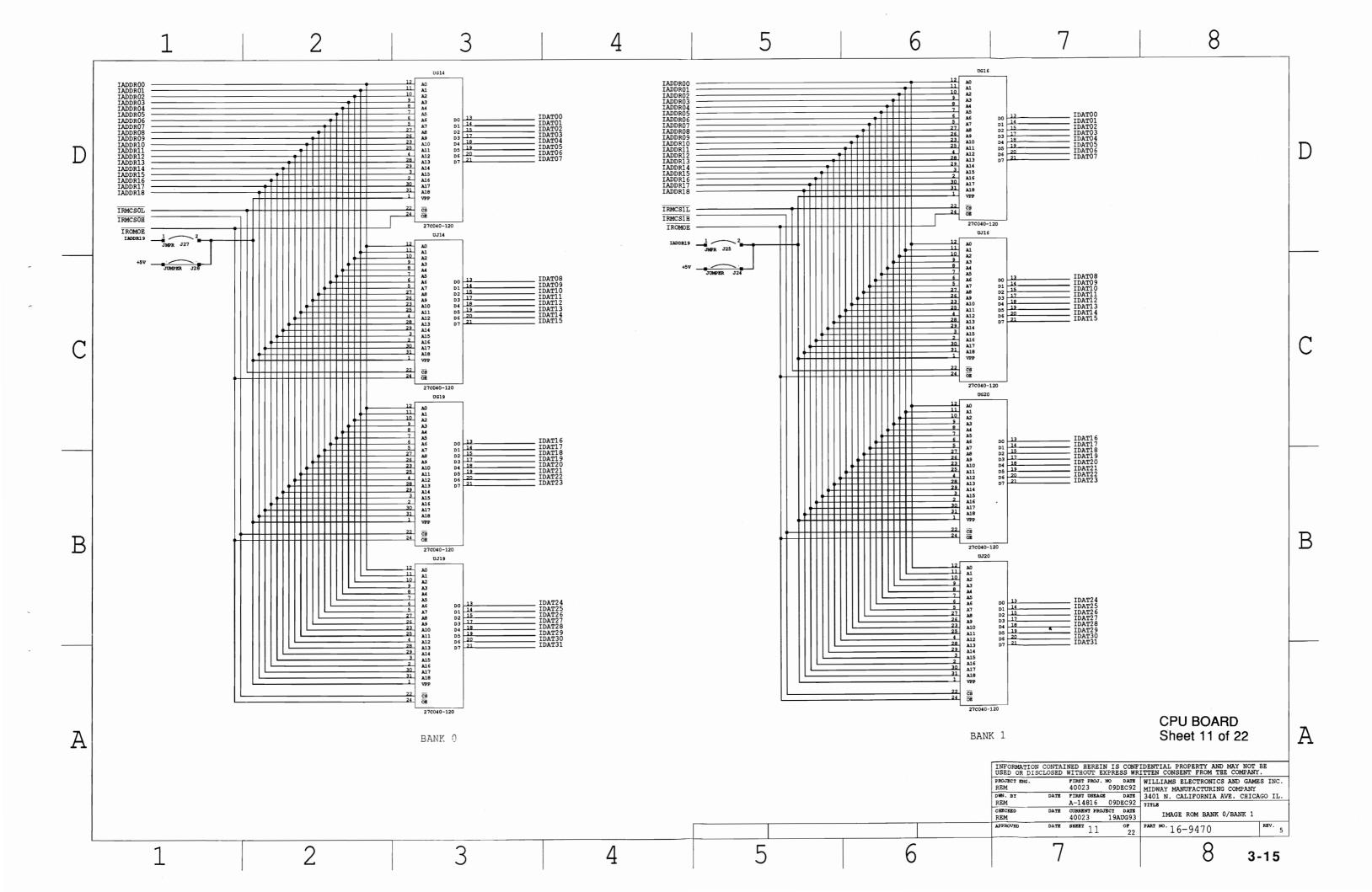


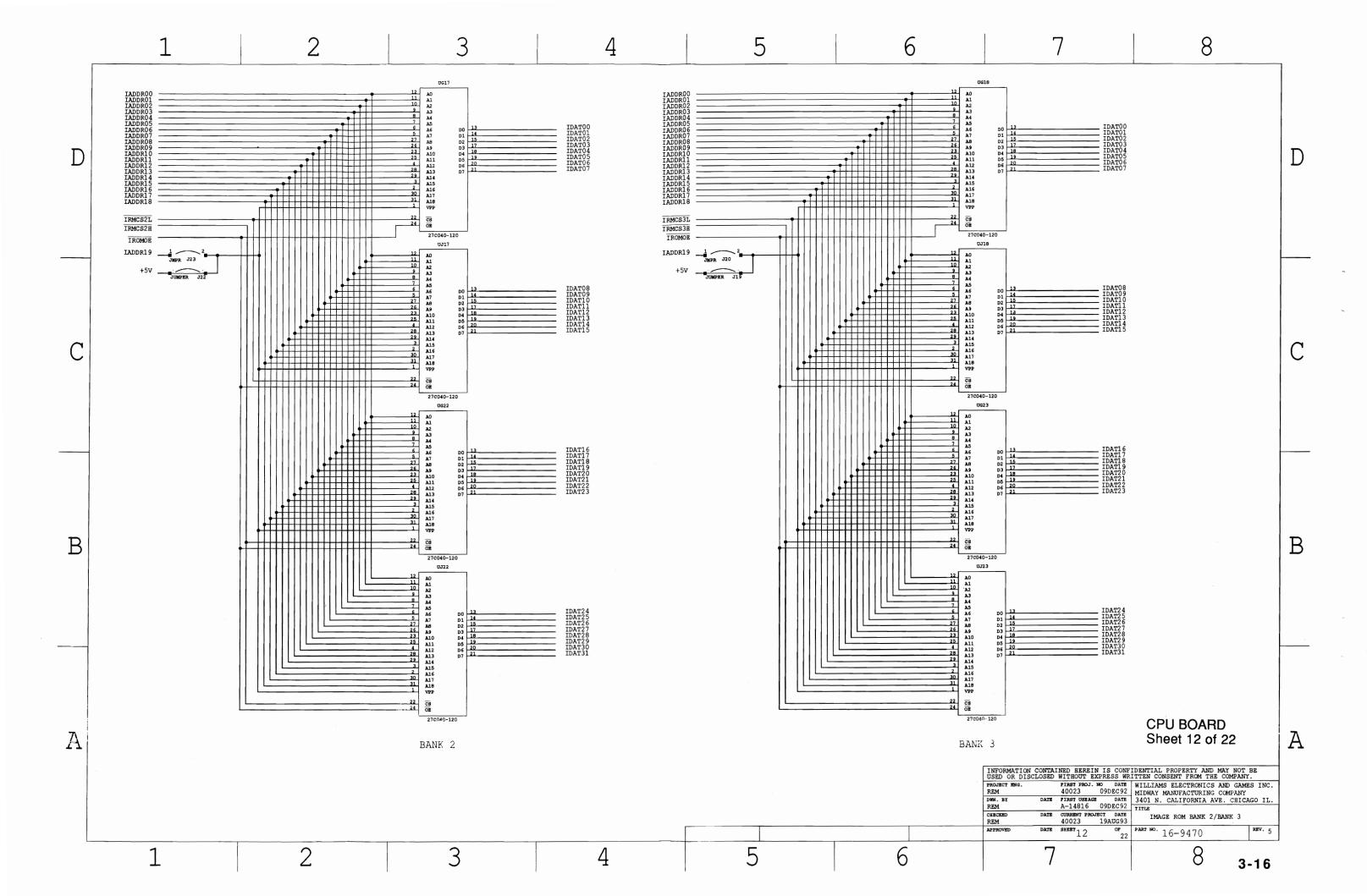


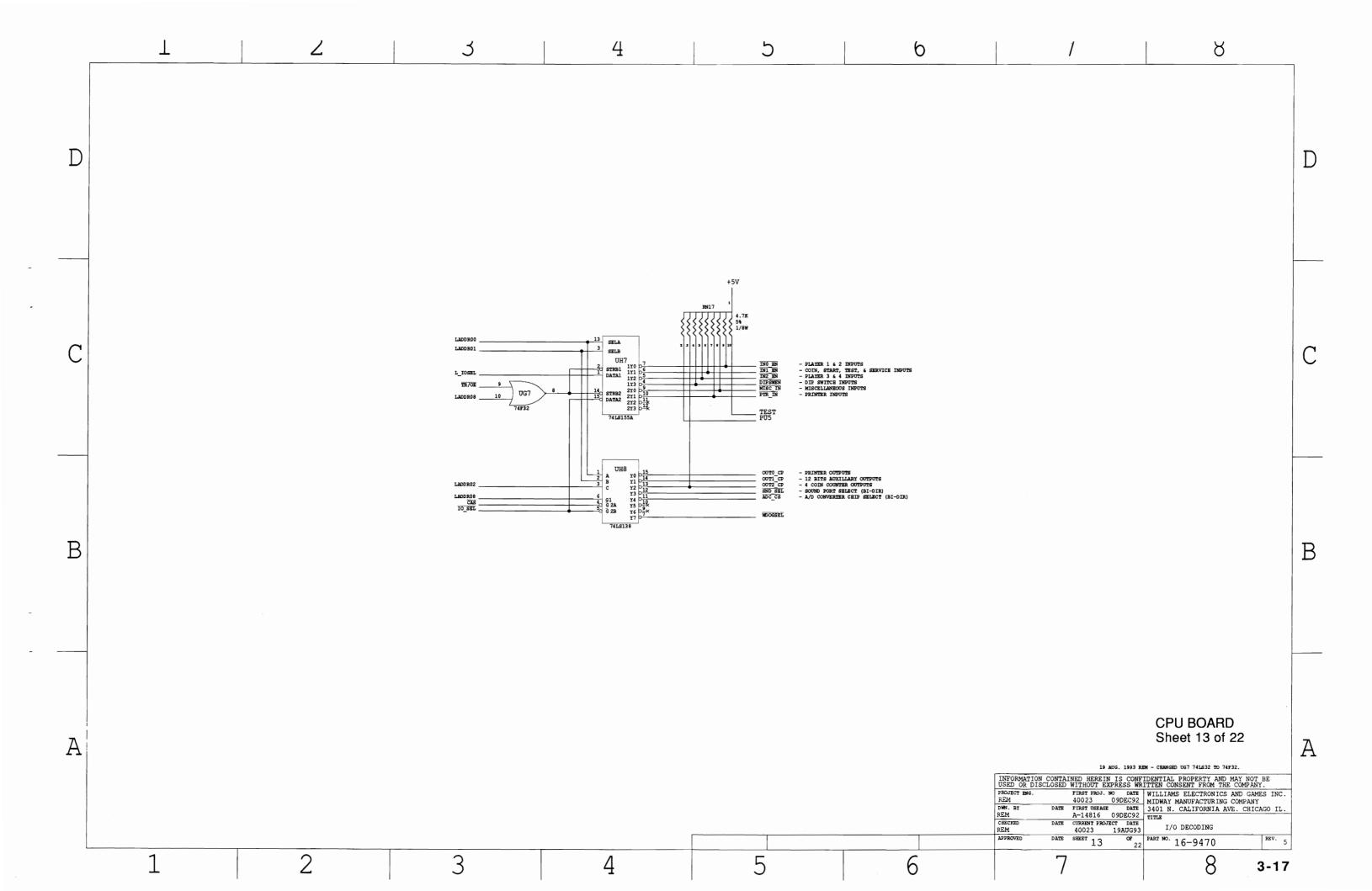


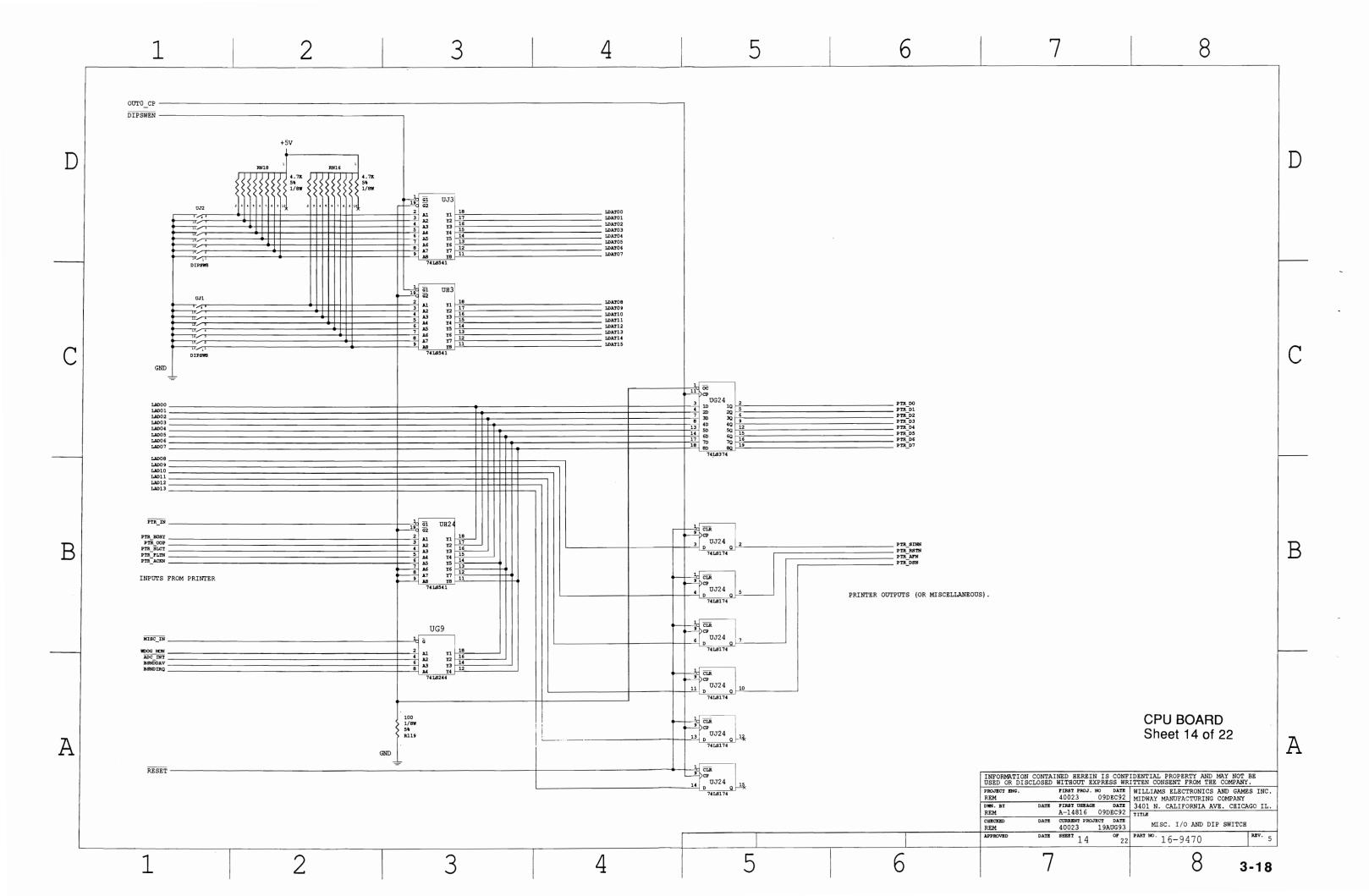


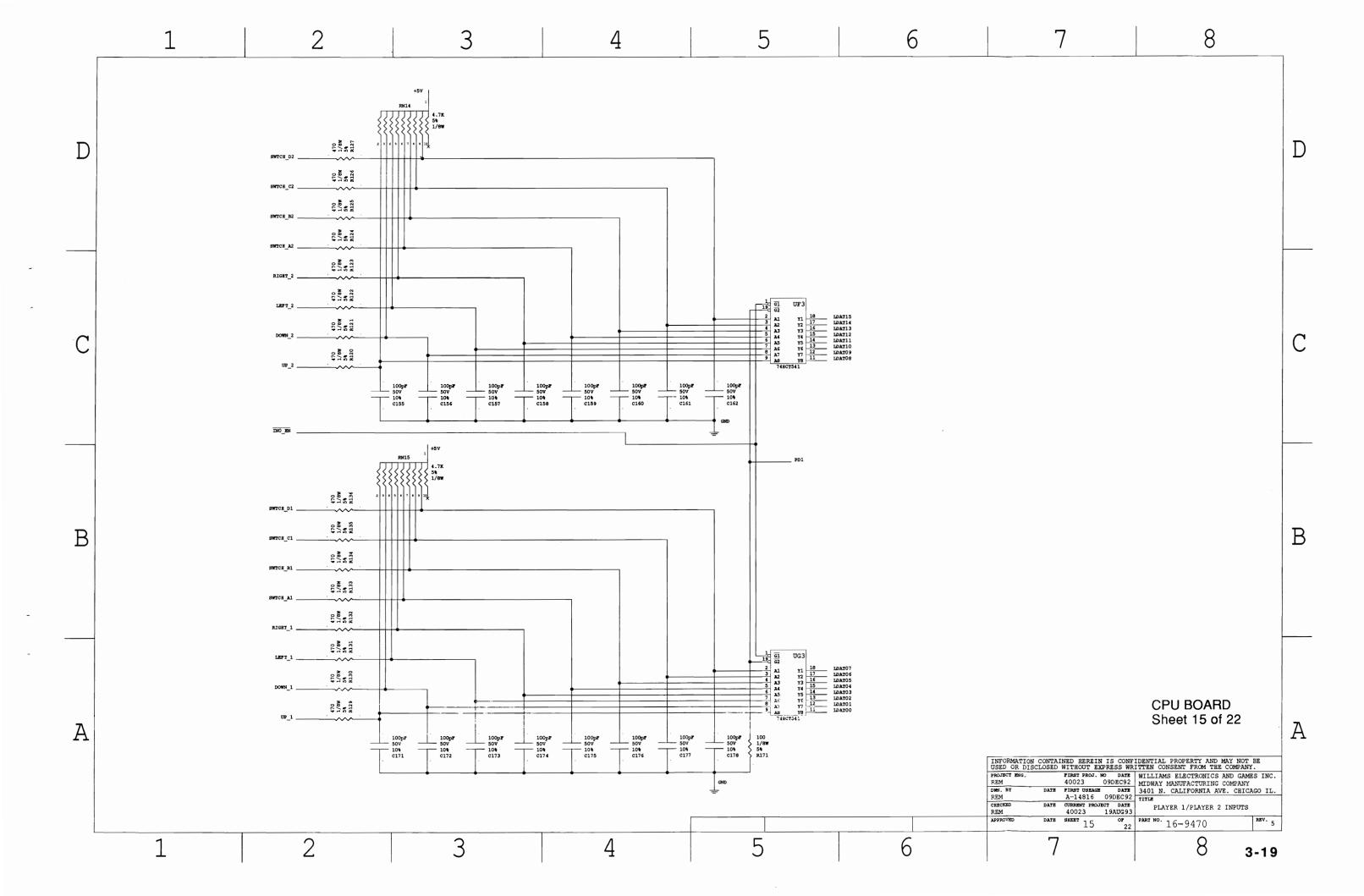


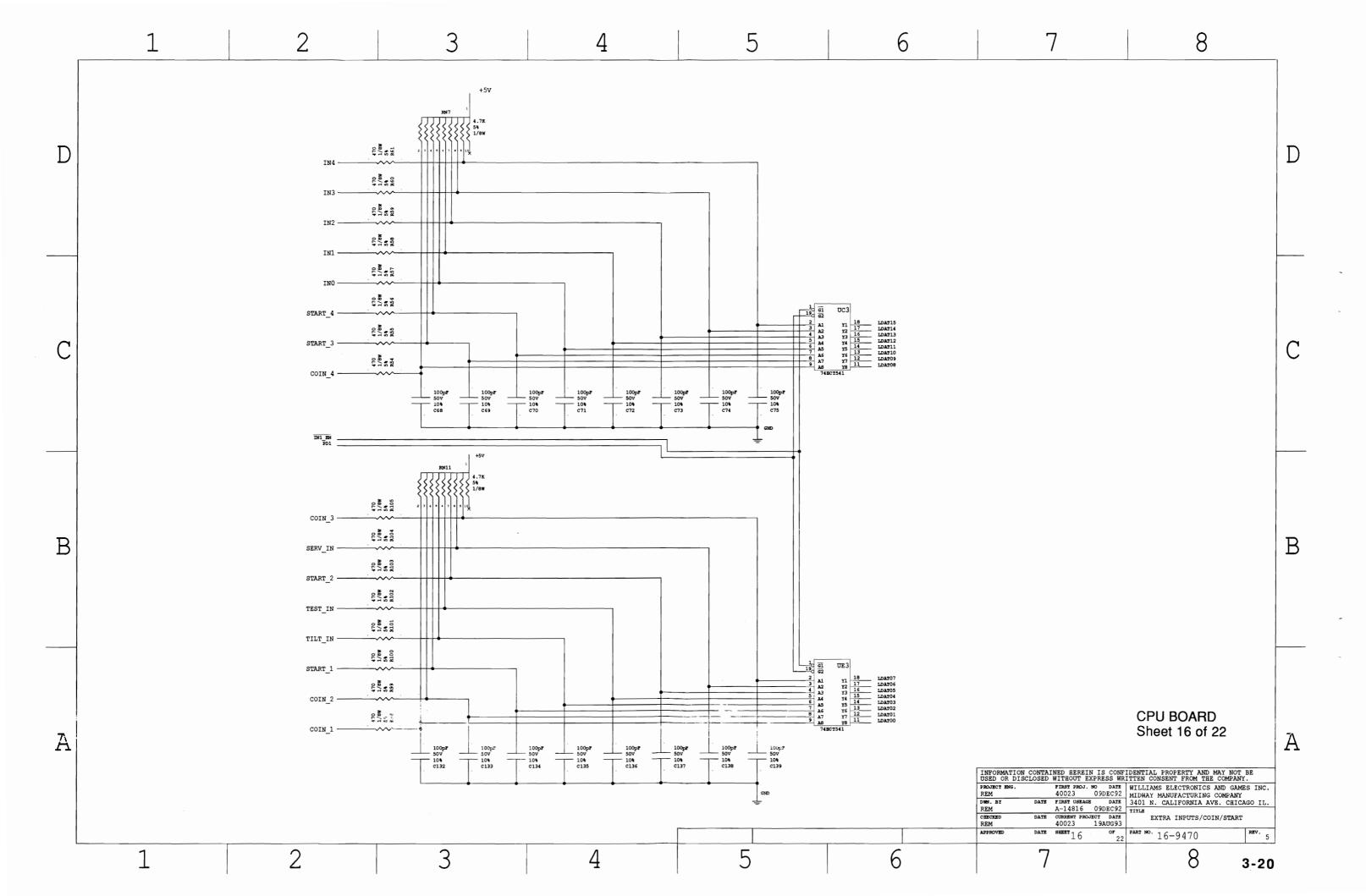


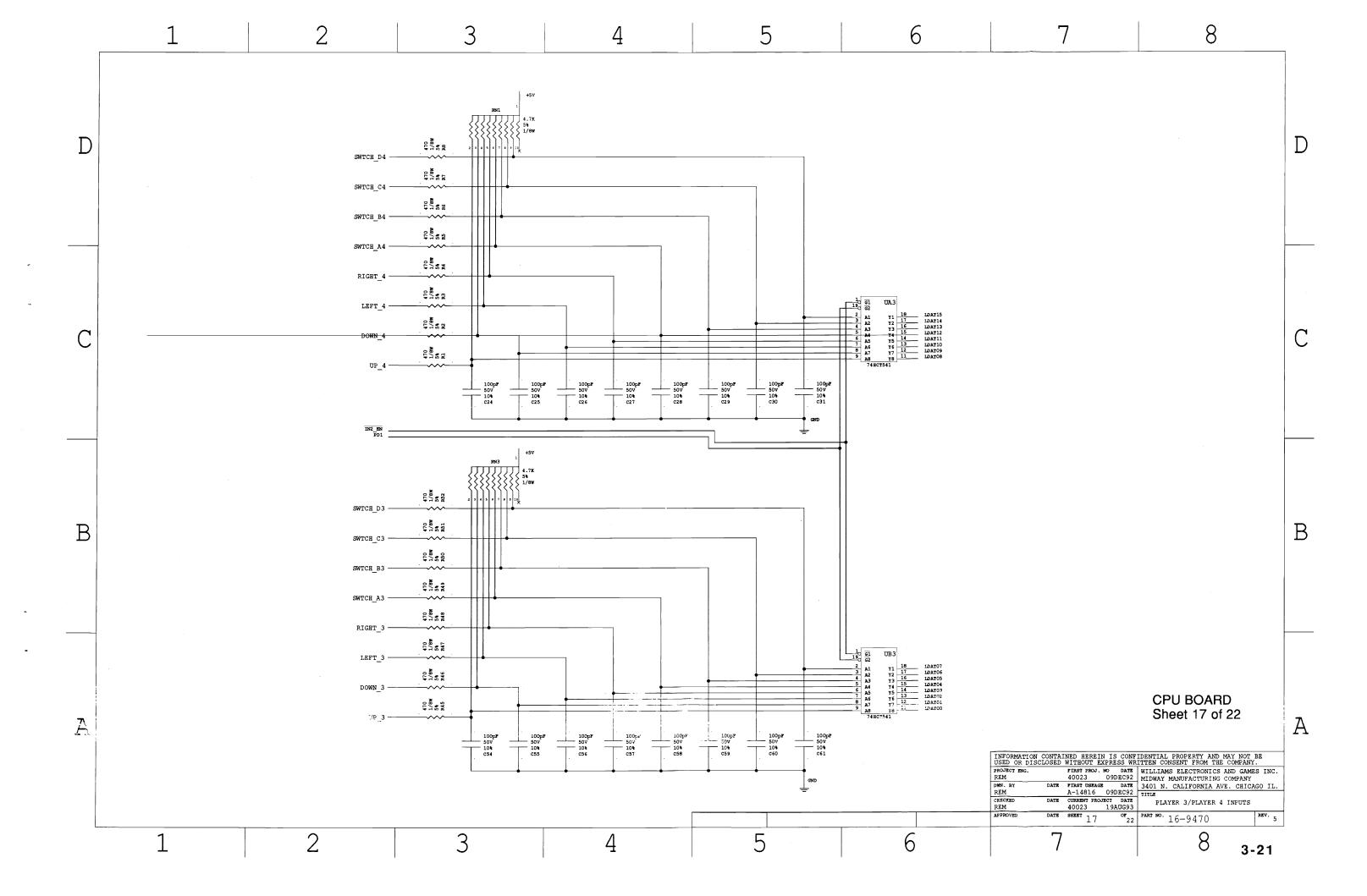


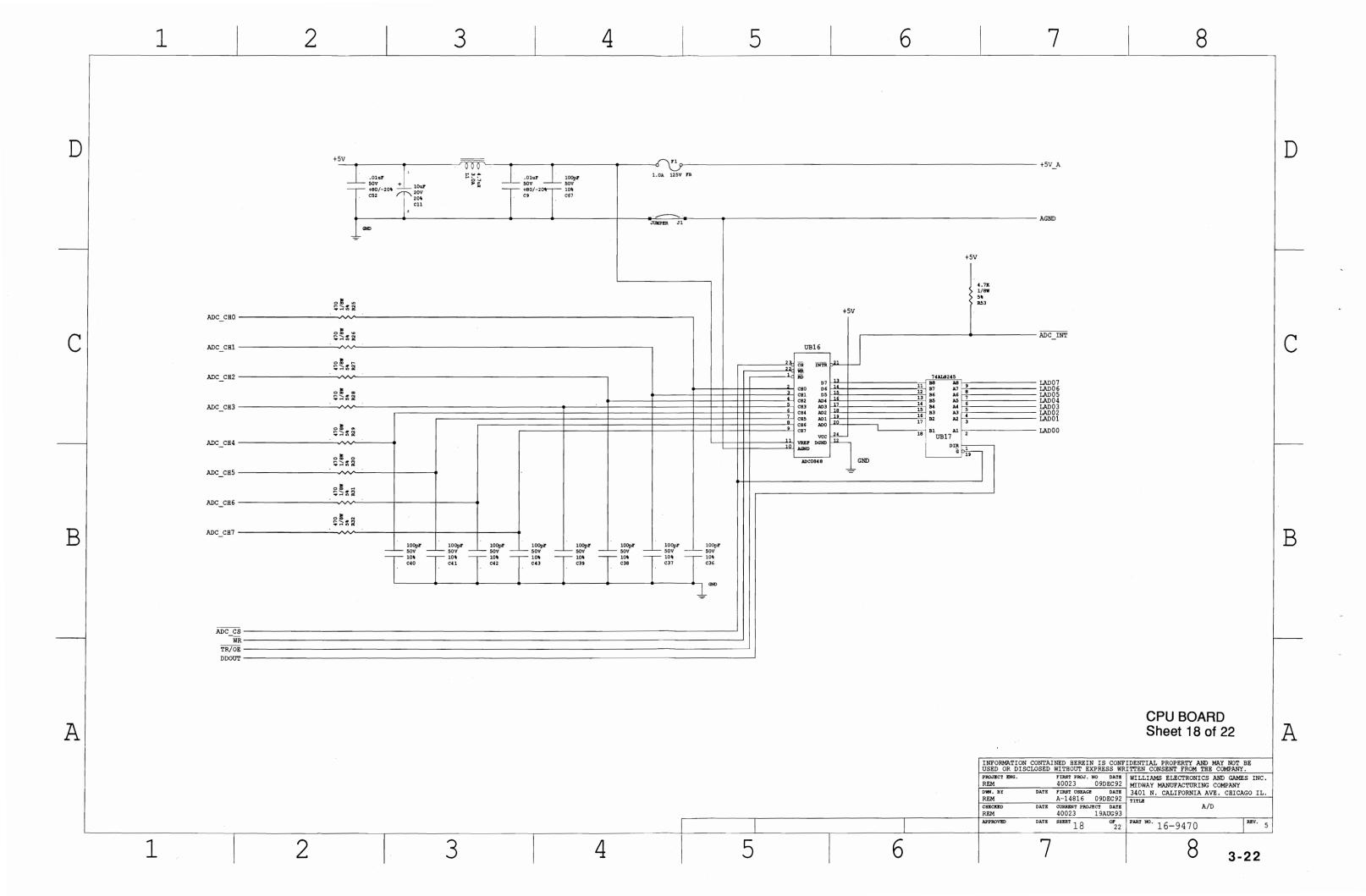


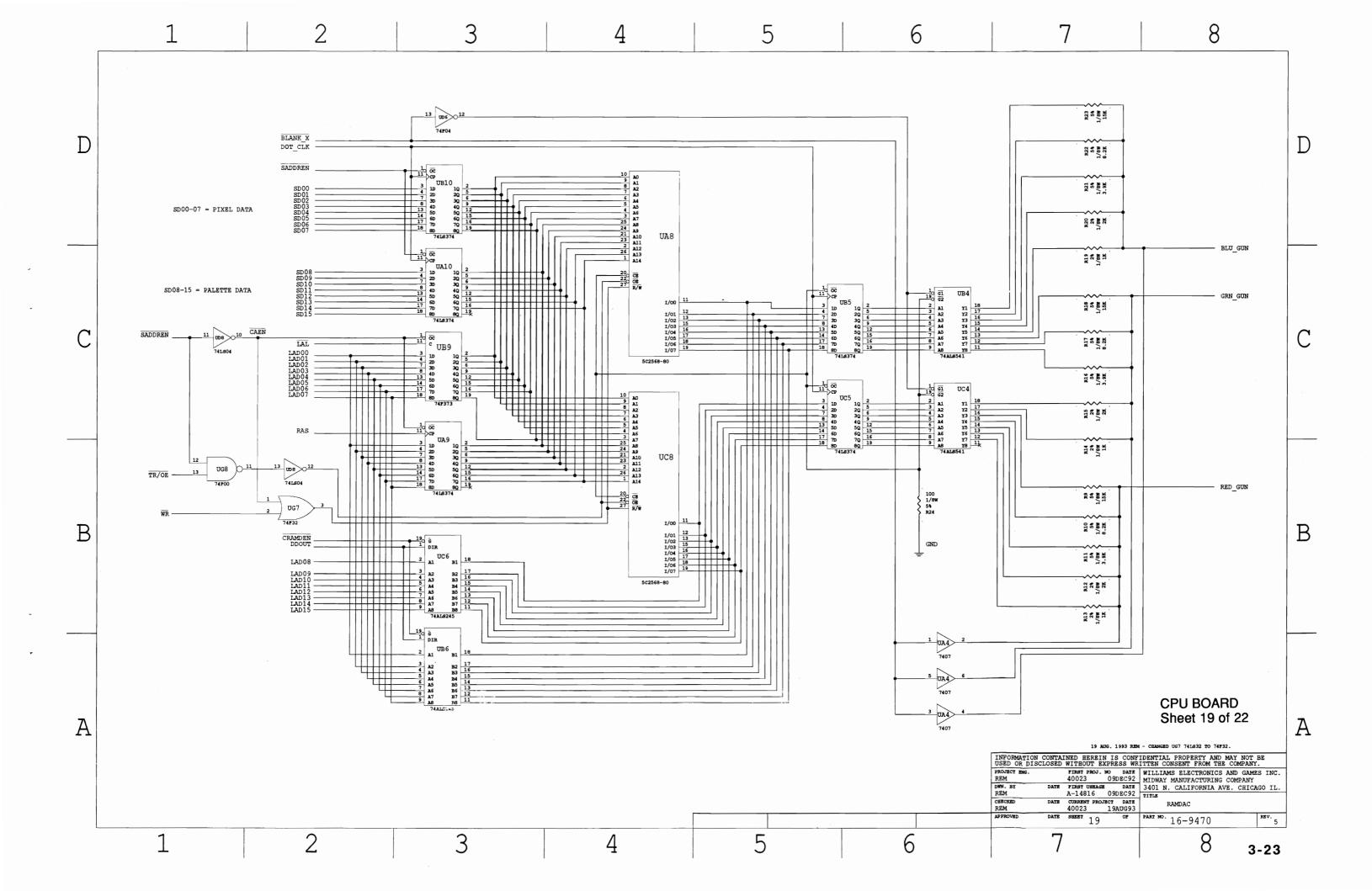


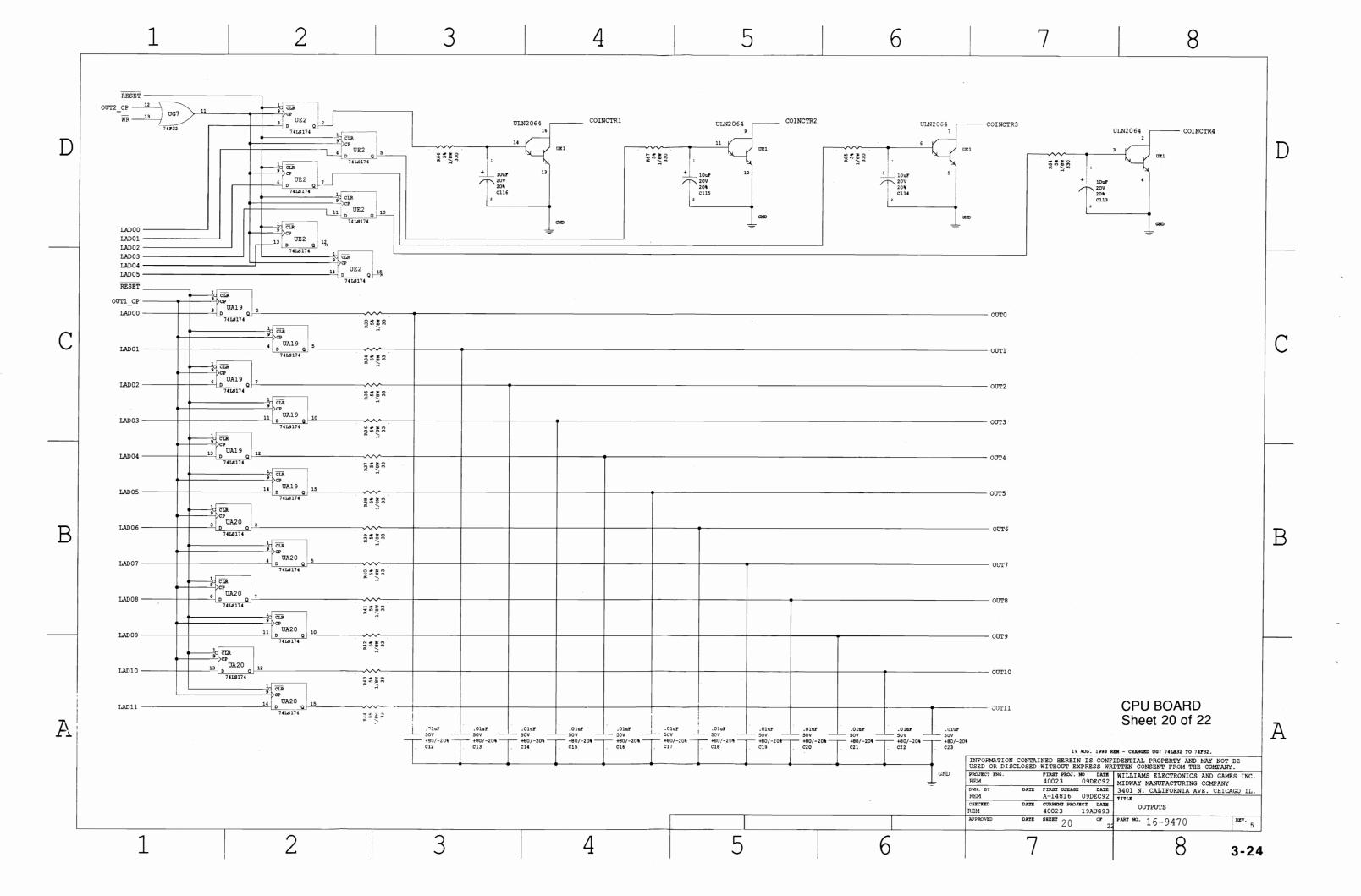


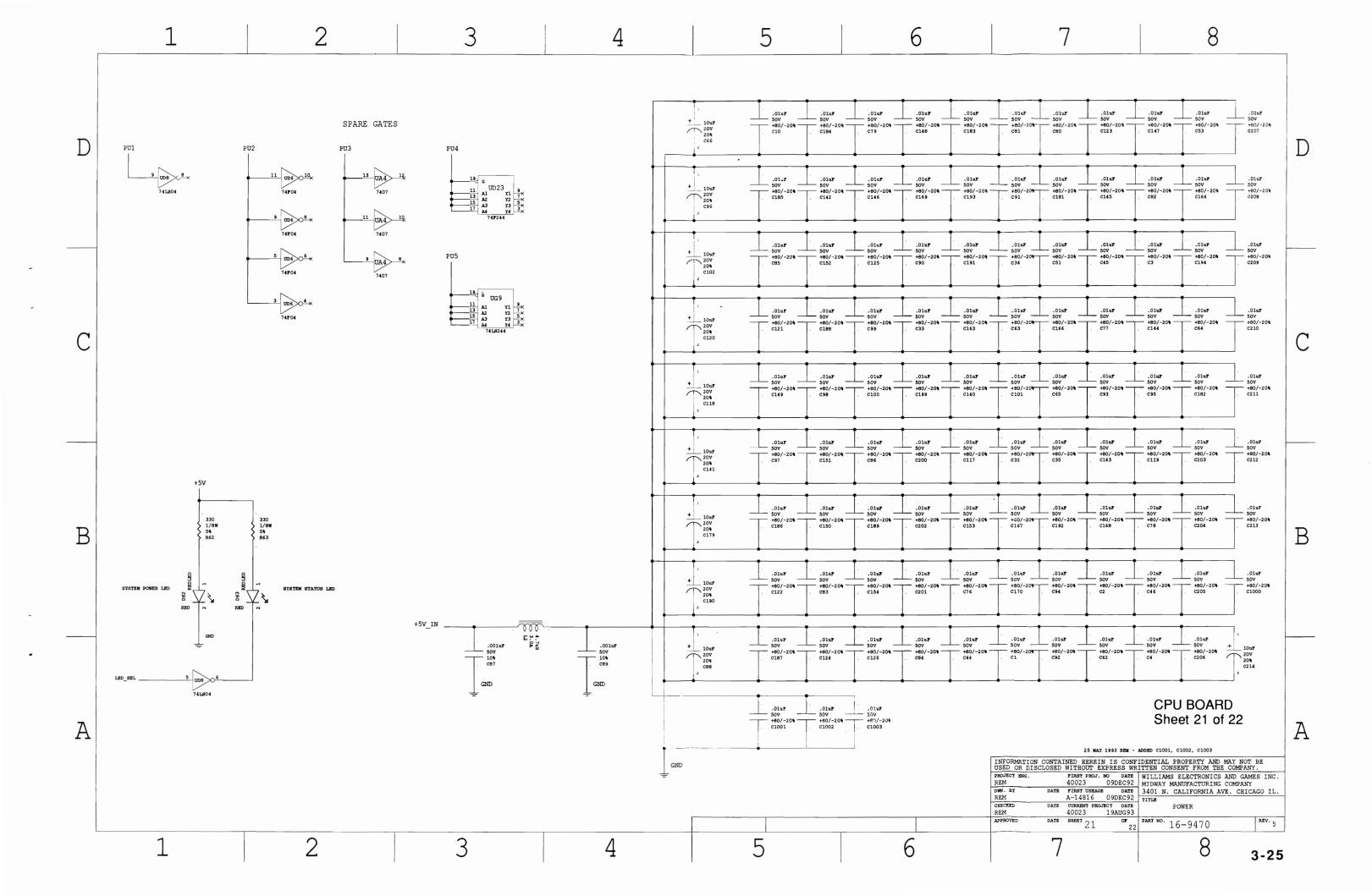


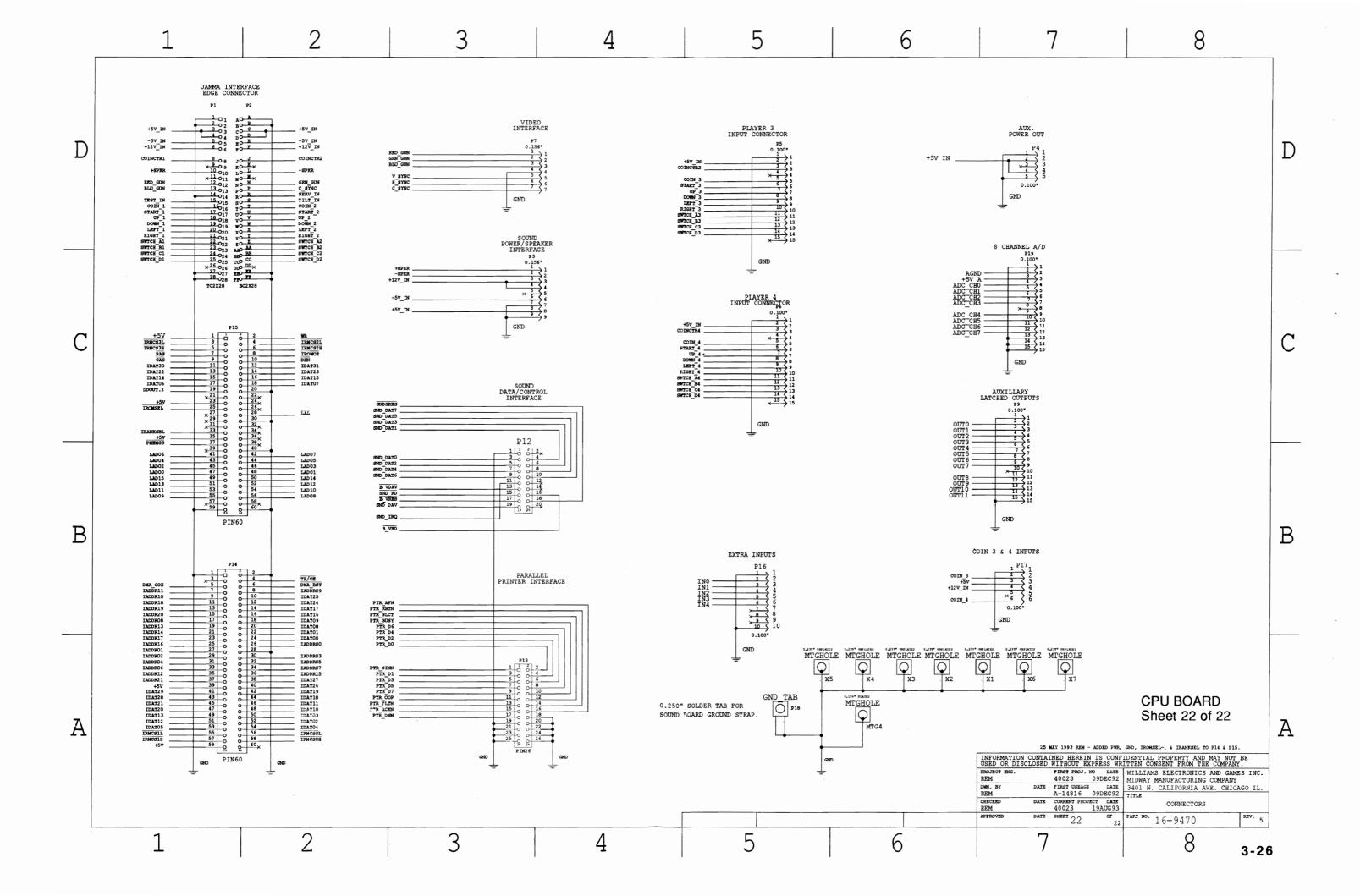


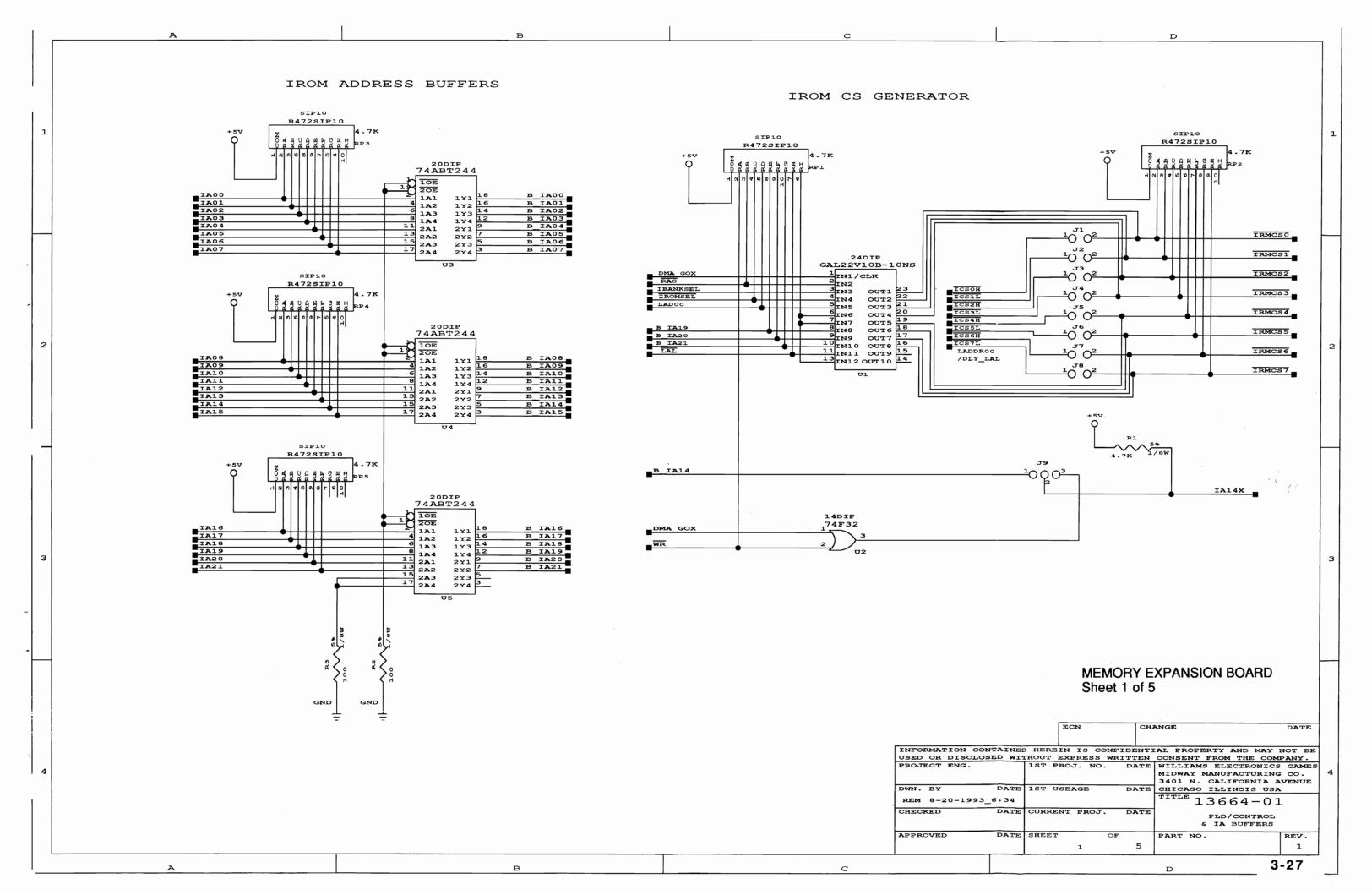


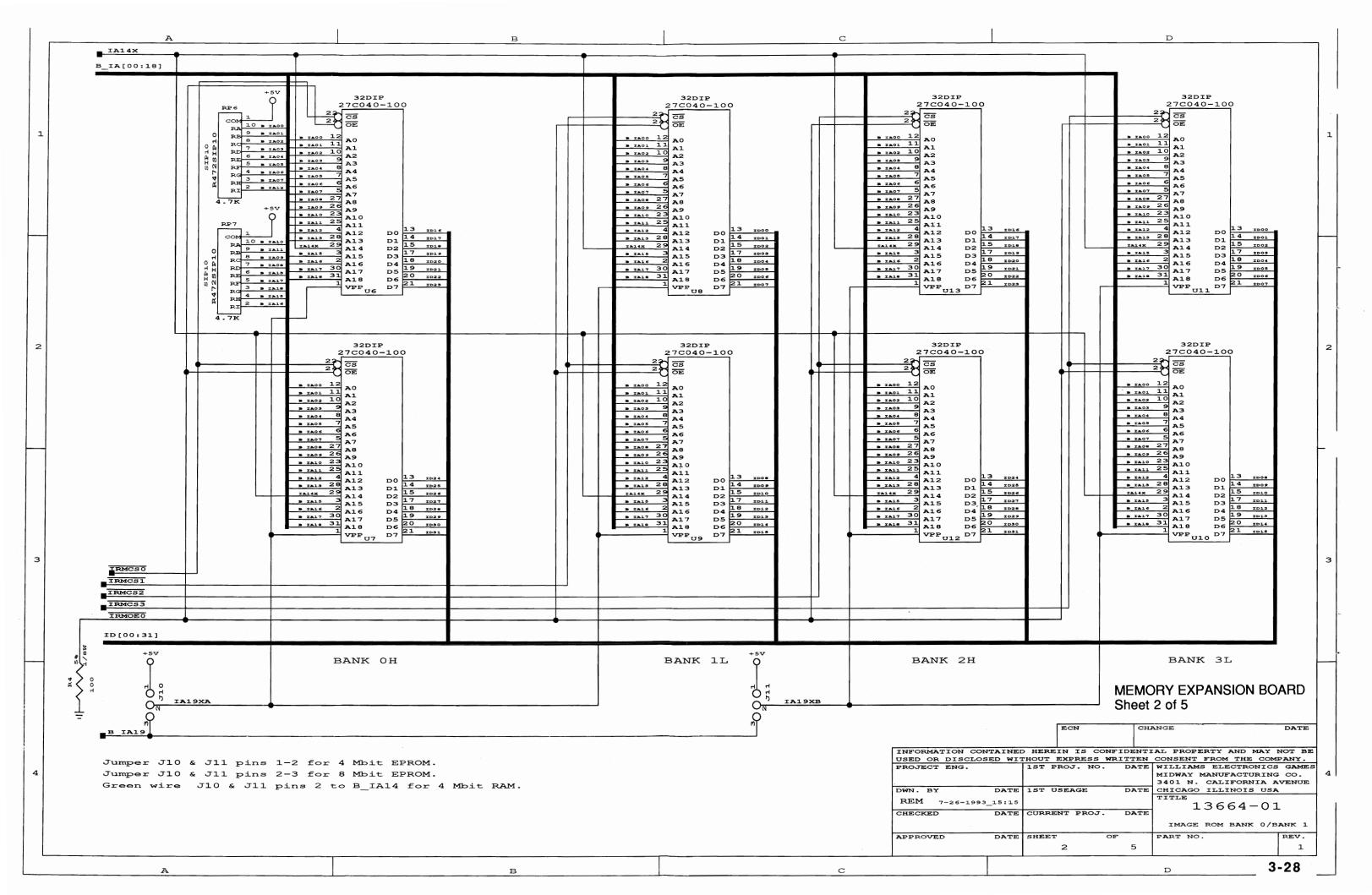


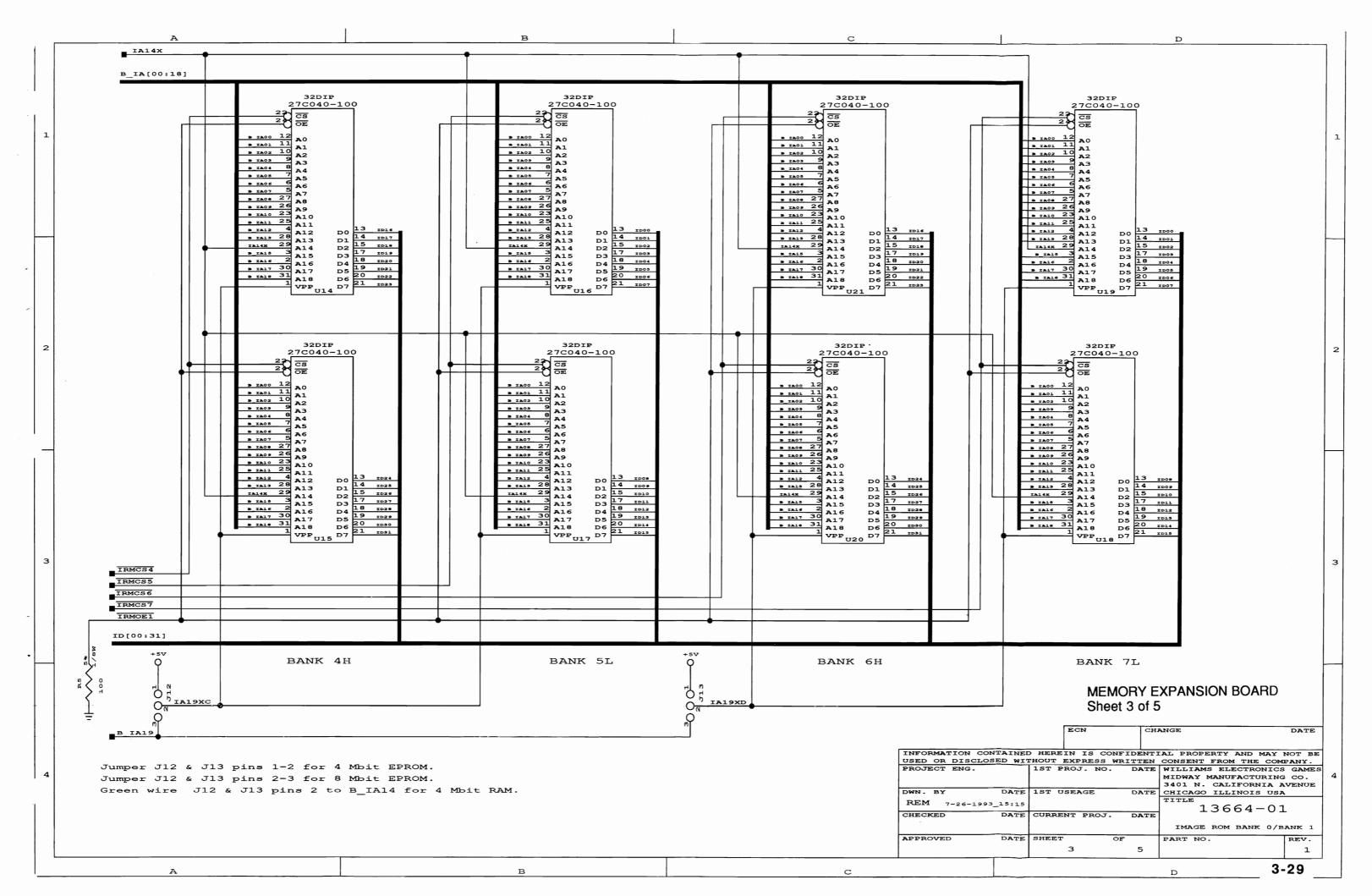


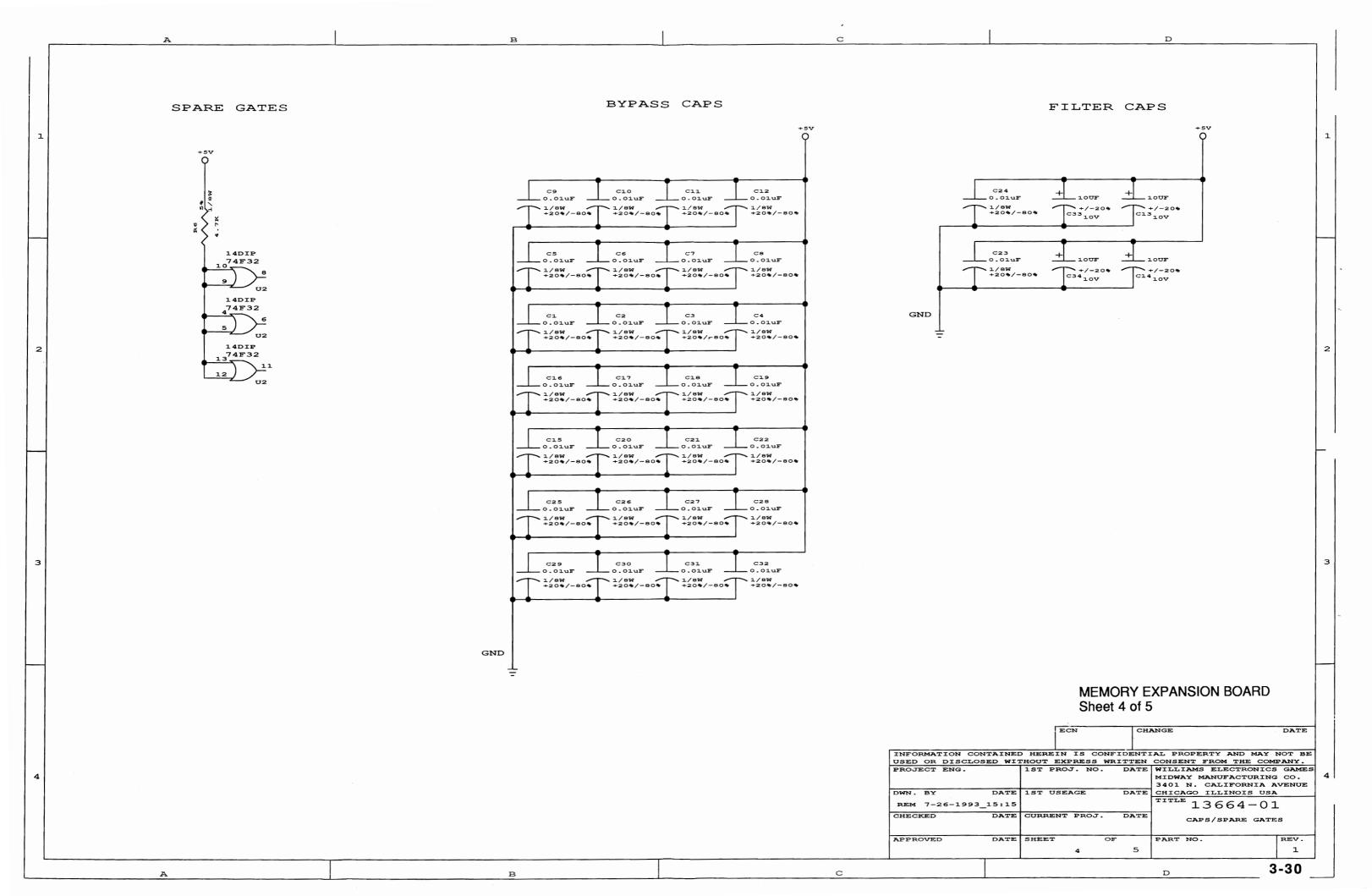


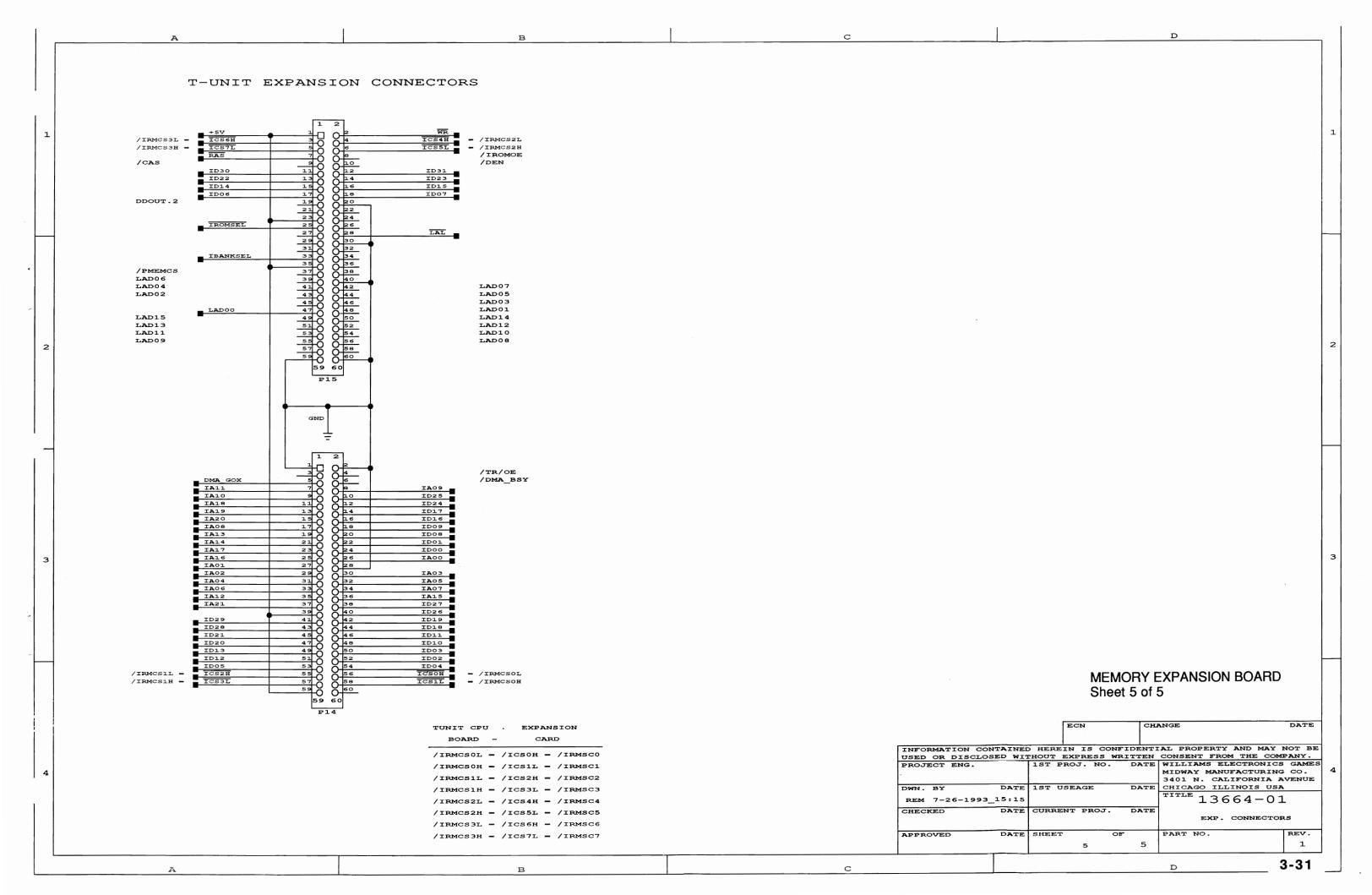


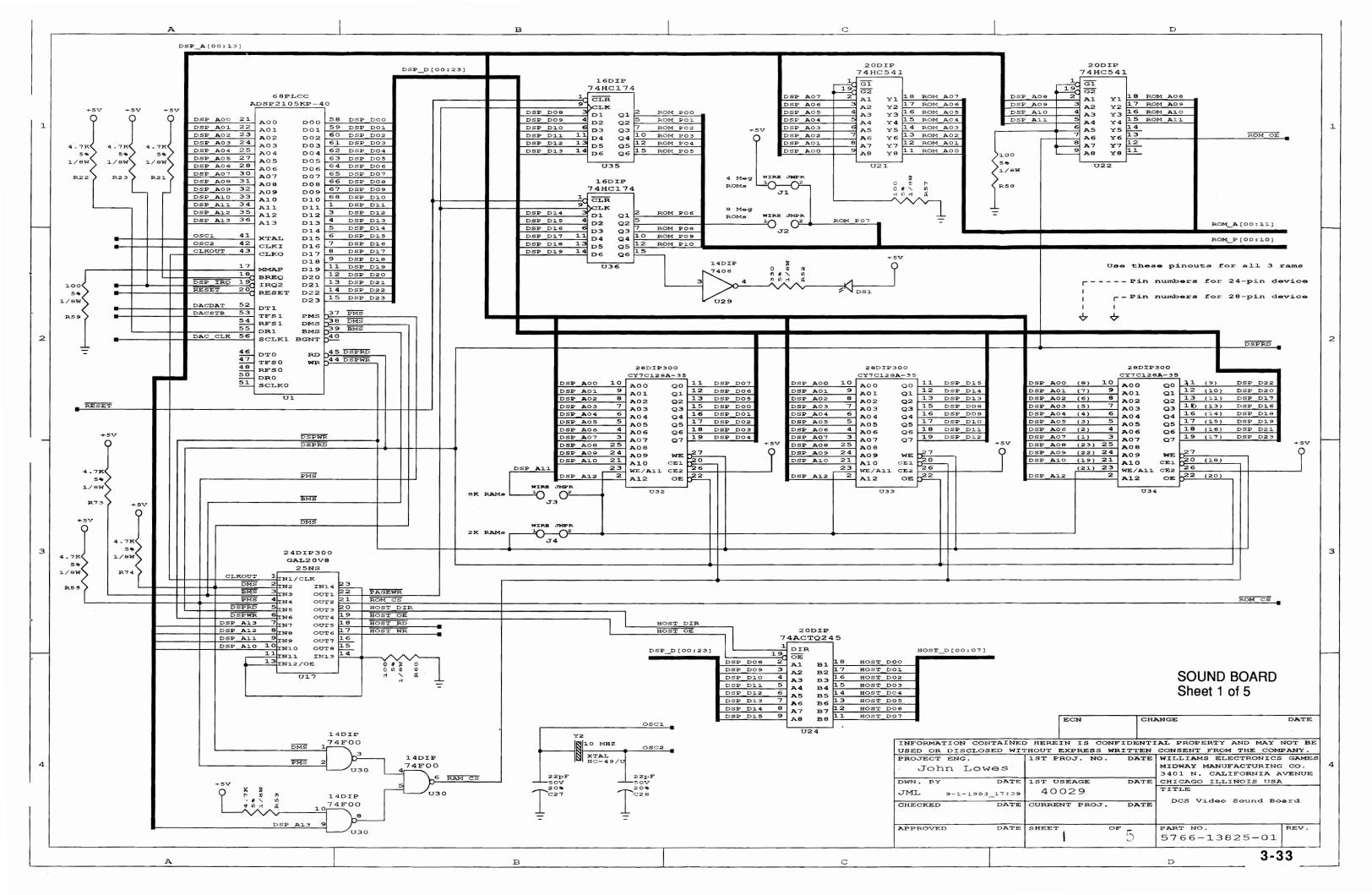


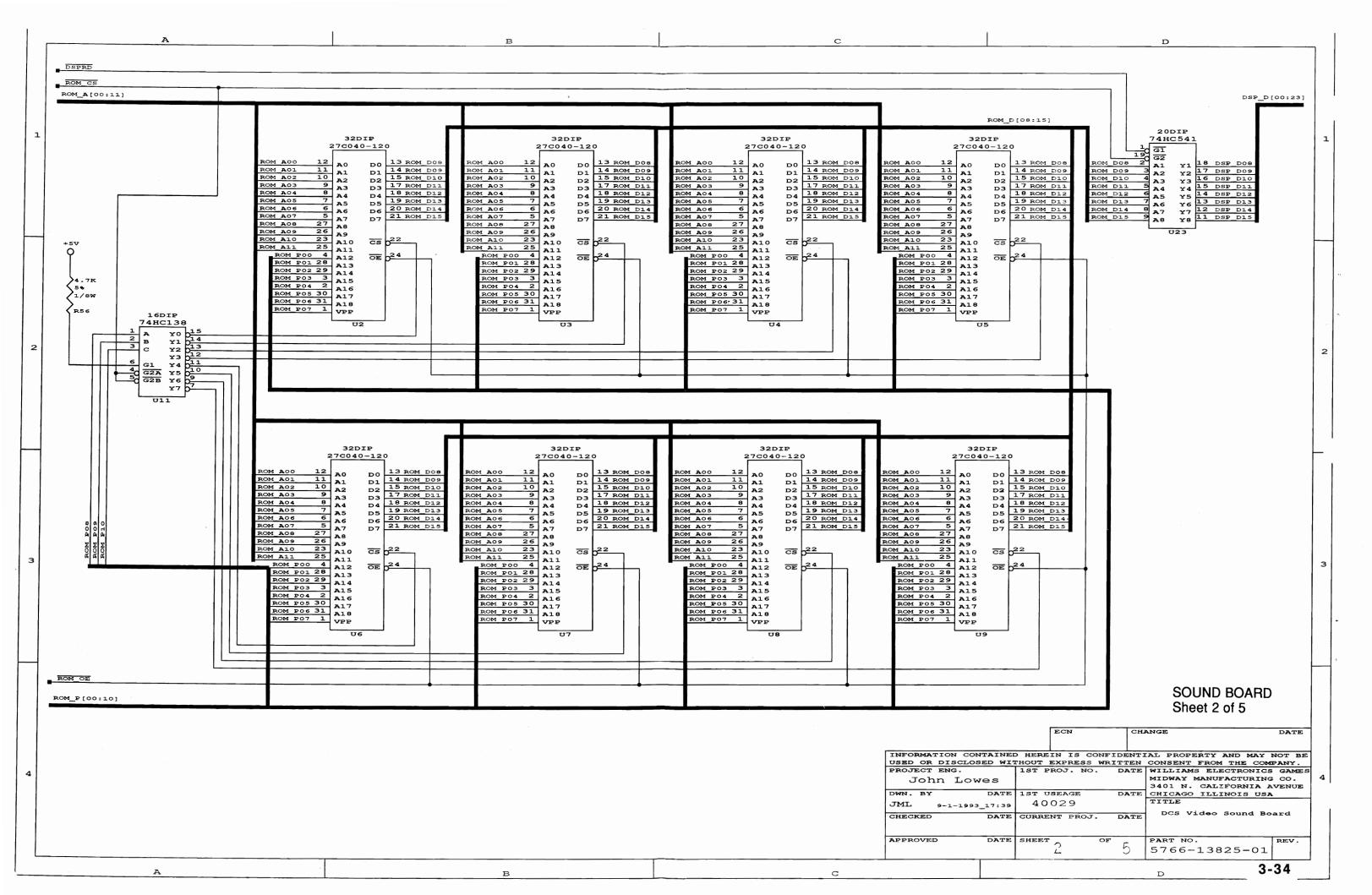


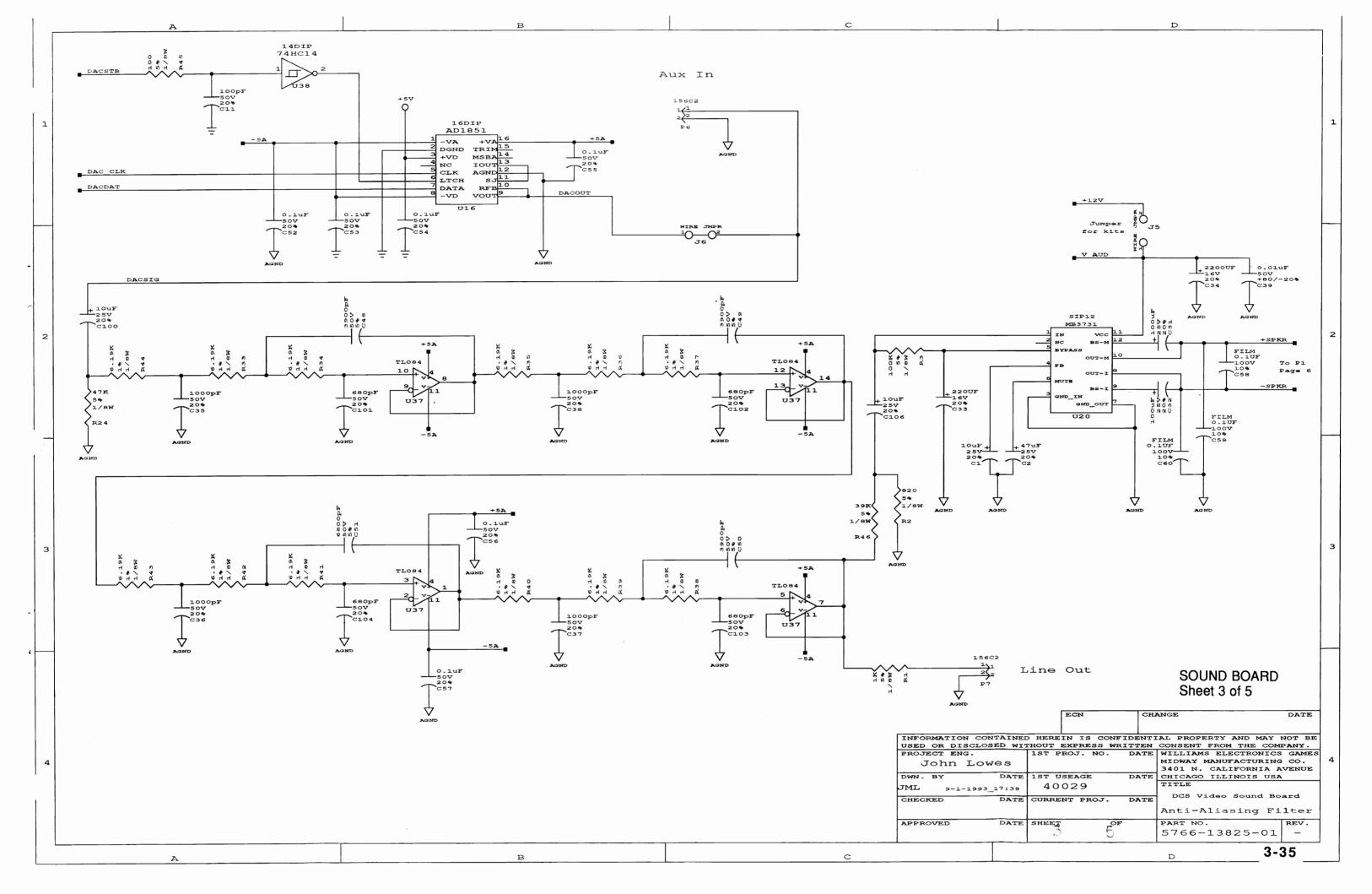


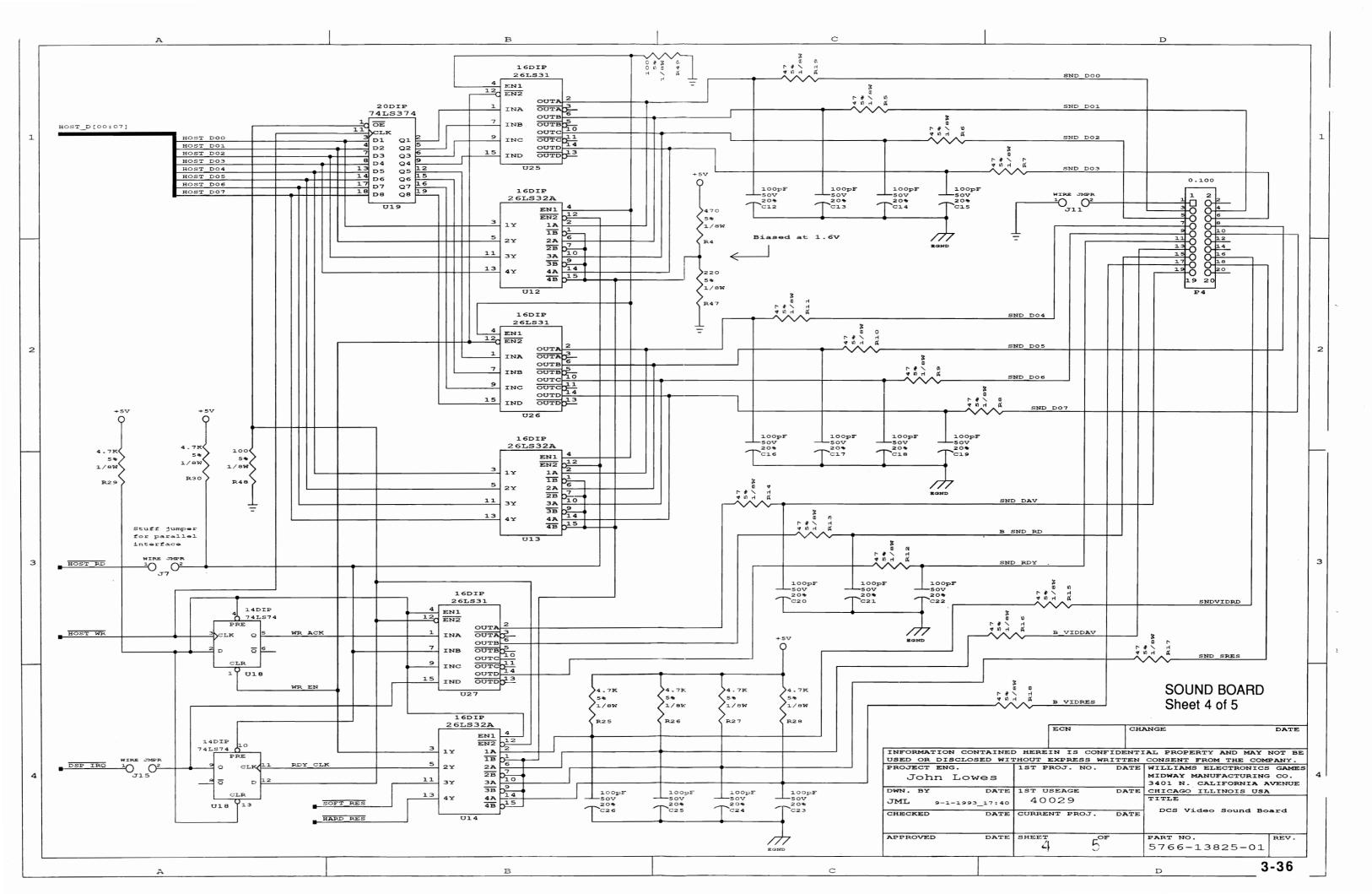


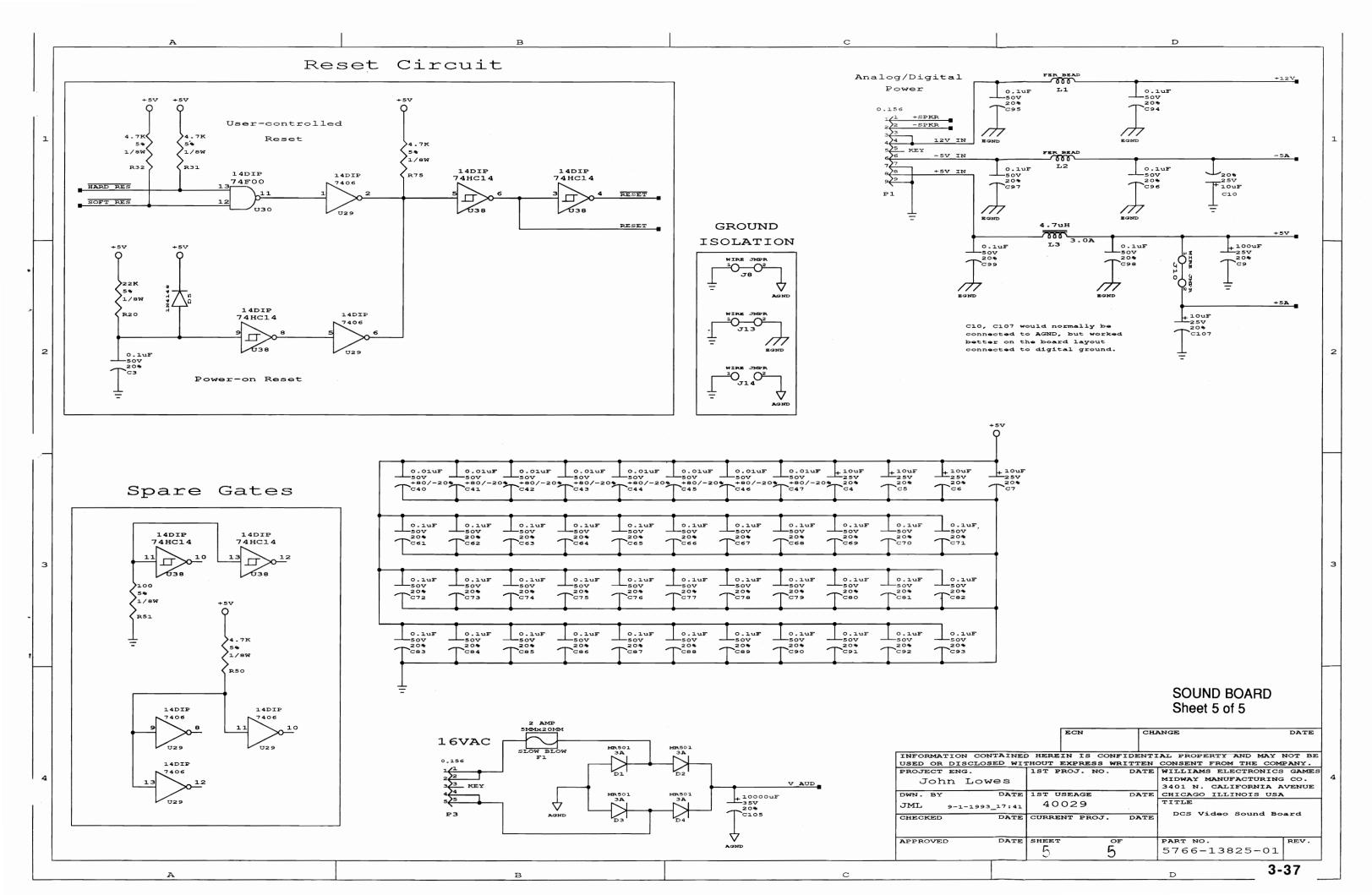


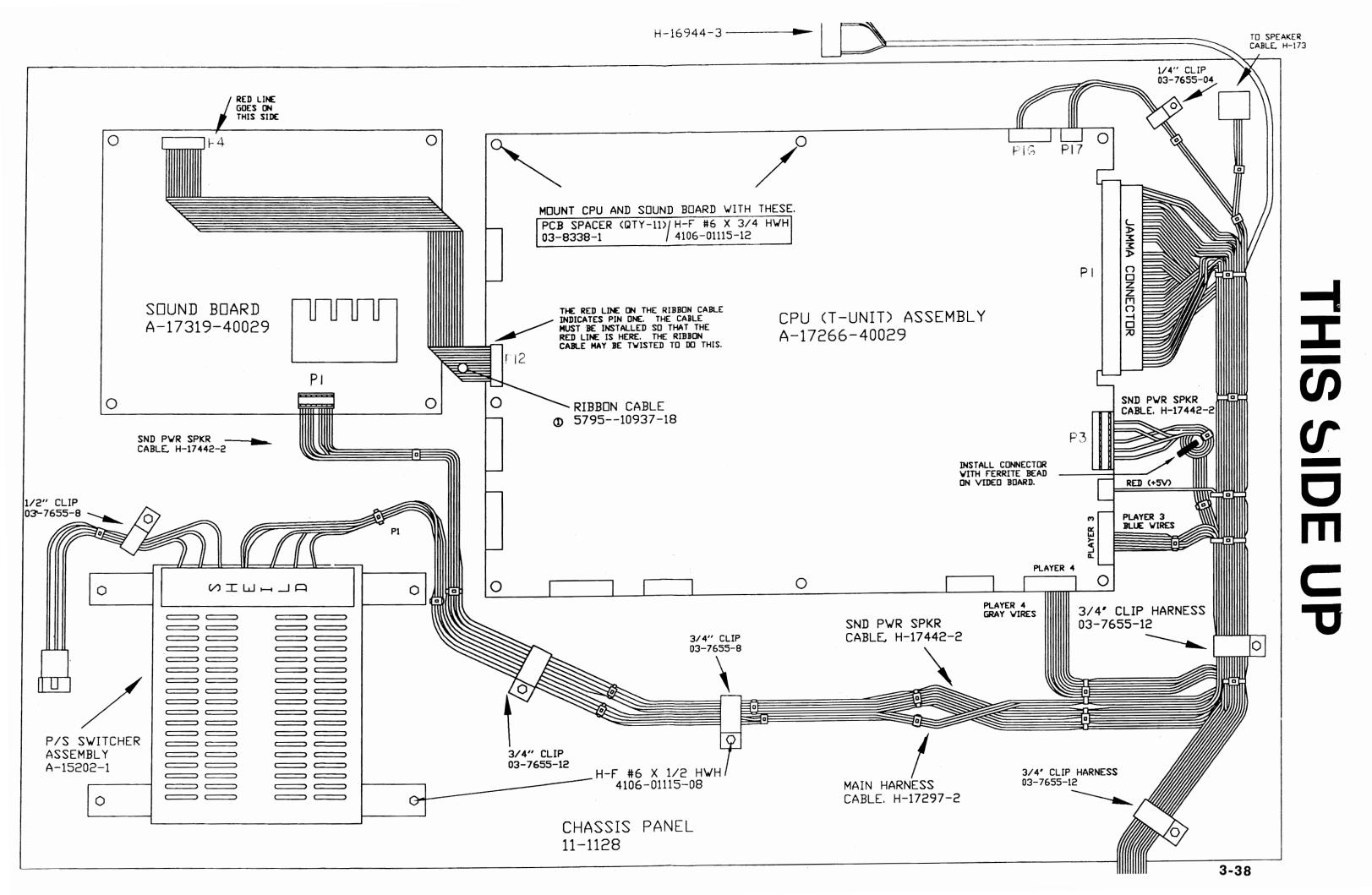












Control Panel Wire Colors

Player One

Start White Up (Jump) White-Black Down (Duck) White-Brown Left (Move) White-Red White-Orange Right (Move) High Punch White-Yellow Block White-Green High Kick White-Blue Low Punch Blue-Black Low Kick Blue-Brown Ground Black

Player Two

Start Violet-White Up (Jump) Violet-Black Down (Duck) Violet-Brown Left (Move) Violet-Red Right (Move) Violet-Orange High Punch Violet-Yellow Block Violet-Green High Kick Violet-Blue Low Punch Blue-Yellow Low Kick Blue-Green Ground Black

PC Board Jumpers

CPU Board

J18, J19, J22, J24, 09 J28, R154

0Ω Resistor, 1/4W

Sound Board

J5, J8, J10, J13 J1, J4, J6, J7, J15 Wire Insulated Jumper 0Ω Resistor, 1/4W

WARNINGS & NOTICES

Warning

USE OF NON-MIDWAY PARTS OR CIRCUIT MODIFICATIONS MAY CAUSE SERIOUS INJURY OR EQUIPMENT DAMAGE! USE ONLY MIDWAY AUTHORIZED PARTS.

- * For safety and reliability, substitute parts and modifications are not recommended.
- * Substitute parts or modifications may void FCC type acceptance.
- * This game is protected by federal copyright, trademark and patent laws. Unauthorized modifications may be illegal under Federal law. This also applies to MIDWAY logos, designs, publications and assemblies. Moreover, facsimiles of MIDWAY equipment (or any feature thereof) may be illegal under federal law, regardless of whether or not such facsimiles are manufactured with MIDWAY components.

Warning

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generated, uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning

Prevent shock hazard and assure proper game operation. Only plug this game into a properly grounded outlet. Do not use a cheater plug to defeat the power cord's grounding pin. Do not cut off the ground pin.

Notice

When MIDWAY ships a game, it is in compliance with FCC regulations. Your sticker is proof. If the sticker is missing or damaged, legal repercussions to the owner or distributor of the game may result. If your game does not contain an FCC sticker, call MIDWAY immediately.

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