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Base	
Elbow	
Structural connection	
Game PCB	
Driver PCB	



#### 1. SPECIFICATIONS

1	)	٧	0	lt	а	g	е

2) Power consumption

3) Monitor

4) Dimensions

5) Machine weight

6) Coin box capacity

7) Coin - credit setting 8) Accessories:

Cash box key

Cash box key
Maintenance/service doors key
Manual

3mm hex wrench 2.5mm hex wrench

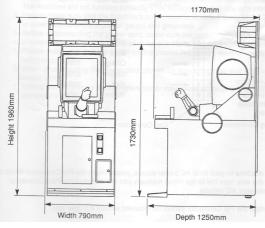
5W Marquee light bulb 15W "Win" sign light bulb AC 200/220/240V Approx. 350W

25" color Width 790mm - 31 1/4" (W)

Depth 1,250mm - 49 1/4" (D) Height 1,960mm - 77 1/4" (H) Approx. 200 kg - 440lbs

Approx. 2000 coins (¢25 size) 1 coin, 1 credit - 4 coins, 1 credit

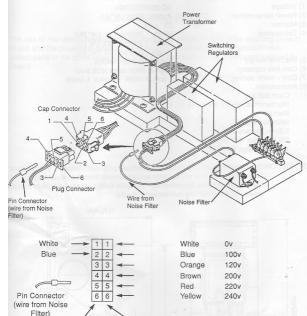
ATTENTION: Specifications are subject to change without prior notification. If this machine is altered in any way without prior written consent from the manufacturer, Jaleoc Ltd. holds no responsibility. To insure safety, please be sure to turn the power off when running maintenance checks.



## THERMAN

#### 1-1 Power Transformer Wiring Diagram

Plug Connector



To set the machine to your local AC power source, please insert the Pin Connector (fitted on the end of the wire from the Noise Filter) manually into the socket of the Plug Connector that matches your AC voltage.

Cap Connector

Once inserted, the Pin Connector cannot be removed without a proper tool.

#### 2. WARNINGS

- 2-1 Installation This mach
  - 1. Outdoo
    - 2. In place or hum places
  - 3. Places
  - 4. This ma
  - 5. This ma
- 2-2 Transporta Please tak machine.

#### 2-3 Operation

- 1. To ensu or powe The mad
- Please r or exten
- 3. Before c
- It is danged
   Please r
  - being tri
- When di power o
- 7. Testing t

#### 2. WARNINGS

#### 2-1 Installation

This machine is for use indoors. **CAUTION**: Do <u>not</u> place this machine in the following locations:-

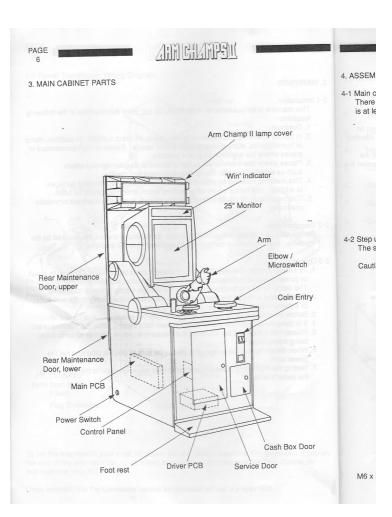
- 1. Outdoors
- 2. In places where there is exposure to rain, leaks, or direct sunlight. In addition, damp or humid places, dusty places or near a heat source. Places of high temperature or places where the formation of dew is possible.
- Places where this machine will cause a hazard to disaster-fighting efforts such as emergency exits, fire-fighting equipment and the like.
- 4. This machine must not be placed on an unstable surface or vibrating surfaces. In addition, any incline or any other surface which is not flat cannot be used.
- This machine must not be placed near dangerous, flammable materials or volatile chemicals.

#### 2-2 Transportation

Please take care during transportation so that no excessive shocks are incurred by the machine. Also, make sure the step unit is removed from the machine.

#### 2-3 Operation

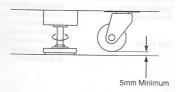
- 1. To ensure that this machine functions properly, it must be connected directly to a wall or power outlet, and not to an extension outlet with other machines running off it. The machine will not function correctly if the voltage supply is low or fluctuating.
- Please make sure that the machine's power cord is attached firmly to the wall outlet or extension cord of the proper gauge and grounded.
- 3. Before disconnecting the power cord, make sure the power switch is turned off.
- 4. It is dangerous to pull the power cord out even for a second while the machine is on.
- Please make sure that the power cord is placed in a secure manner so as to avoid being tripped over.
- When disconnecting the power cord, please be sure to pull the plug and not the power cord.
- Testing the PCB using a volt/ampere tester may cause damage to the PCB due to the tester's voltage.



#### 4. ASSEMBLY

#### 4-1 Main cabinet

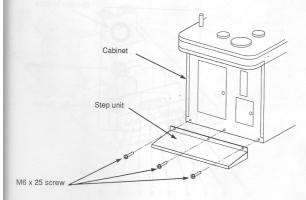
There are two adjusters located on the bottom of the machine. Please make sure there is at least a 5mm space between the wheels and the floor.



#### 4-2 Step unit

The step unit should be firmly attached with 3 M6 X 25 screws as illustrated below.

Caution: Please remove the step unit before moving or transporting the machine. Failure to do so may cause damage to the floor, step unit, or cabinet.



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# AIN GIAMPONI

#### 5. ADJUSTMENTS

5-1 Control panel

The adjustment switches are located in the inside of the service door to the left.

1. Speaker volume

2. Service switch

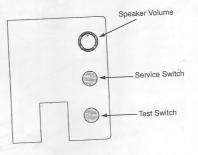
3. Test switch

Regulates the sound volume

For use in servicing the coin counter, allows an increase in the number of credits without affecting the coin counting mechanism.

This switch is to be used to run a check of the game's systems. Refer to "test mode", section 5-4

of this manual.

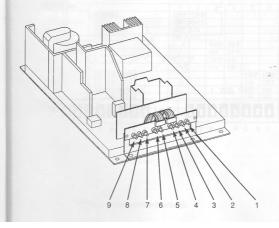


**5.2 MON** 

3.

6.

- 1. Vertical Positioning
- 2. Vertical Hold (tracking)
- 3. Horizontal Positioning
- 4. Horizontal Hold (tracking)
- 5. Contrast
- 6. Brightness
- 7. Blue drive
- 8. Green drive
- 9. Red drive

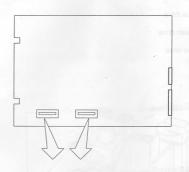


#### 5-3 DIP SWITCH SETTINGS

To change the DIP switch settings of the game, open the front service door and the DIF switches are located on the Game PCB which is on the left side of the cabinet.

Caution: Please do not set the dip switches to settings other than those indicated in the DIP switch chart.

Be sure to turn off the machine before adjusting the DIP switches.



ON DIP SW. 1

ON DIP SW. 2

N.B

D

#### ARM CHAMPS II - DIP SWITCH SETTINGS (STANDARD)

he DIP

I in the

DIP SWITCH #1		Million A.	1	2	3	4	5	6	7	8
	1 COIN '	CREDIT	OFF	OFF	OFF					
	1 COIN 2	2 CREDITS	ON	OFF	OFF	- II				
	1 COIN 3	3 CREDITS	OFF	ON	OFF	1				
COIN ENTRY #1	1 COIN 4	4 CREDITS	ON	ON	OFF	18				
	2 COINS '	CREDIT	OFF	OFF	ON					
	3 COINS '	CREDIT	ON	OFF	ON					
	4 COINS	CREDIT	OFF	ON	ON					
	FREE PLAY	I DEC	ON	ON	ON	-				
		Ta	BTR	DTON	1	OFF				
TO BE SET		T/	aT.O	400			OFF			
AS SPECIFIED		Name of the Landson	OTIM	2 Q1				OFF		
SOUND	NECESSAR	Z -	ATTO.	BALAS					OFF	
IN ATTRACT MODE	UNNECESSA	ARY	mec	s me	SWILC	nes a	ng ve	ELITTE.	ON	
ARM POSITION	UPRIGHT		Brass	na th	a but	cena/	W SW	0	ofto	OFF
IN ATTRACT MODE DOWN		omos	nond	na ha	arlina	a will	erisis o	na AC	ON	

DIP SWITCH #2		1	2	3	4	5	6	7	8
	NORMAL	OFF	OFF	Jane.	Links	MI IQUI	18.00	THE.	10
GAME DIFFICULTY	HARD	ON	OFF		- T	0			
	VERY HARD	OFF	ON	olum	C swill	tha "	0000	h the	
	EASY	ON	ON	7117		0			
	2	100		OFF	OFF	6.			
NUMBER OF TRIES	3		-	ON	OFF	800	an have	150 11	0 01
PER GAME	4	QUIKUI I		OFF	ON	0			
	1			ON	ON	0 0			
	20 SECONDS					OFF	OFF	1	
GAME TIME	25 SECONDS					ON	OFF		
PER TRY	30 SECONDS	v anothor	Thie			OFF	ON	Cros	S
TITIE TOTE AN INTERNITURAL	15 SECONDS		diani			ON	ON		
TO BE SET	The second secon	A LIGHT	HOTEL	TUITI	HE WI	Thos	MOH	OFF	o m
AS SPECIFIED	luse gos	tion (ngi	1).	7					ON

N.B. Bold letters or figures indicate standard settings.

#### 5-4 TEST MODE

By pressing the test switch, the test mode screen will appear on the monitor. Press the select button to move the arrow to the desired test heading, then press the start button to execute the desired test. To return to the menu simply press start again.

#### <TEST MODE MENU>

> COLOR BAR CROSSHATCH MEMORY CHECK I/O PORT CHECK MOTOR TEST SOUND TEST DIP SWITCH GAME START

1. Color bar

A color bar display for color adjustment to the monitor.

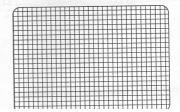
Pressing start will reverse the order (as illustrated below).

To return to the menu screen, press start.

white	red	OF	green	blue	7 [	white	red	00	green	blue
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2. Crosshatch

This pattern will appear for monitor adjustment. To return to the menu, press start.



3. MEMORY CHECK

Checks the game's RAMs. Displays the addresses of the memory locations with errors. To return to the menu press 'Start' button.

<MEMORY CHECK CLEAR>

4. I/O port check

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BUTTON I EVEL HARD SW : OFF **EASY SW** : OFF : OFF SERVICE COIN 1 : OFF COIN 2 : OFF FI BOW SW · OFF : OFF CENTER L-LIMIT : OFF : OFF **B-LIMIT** ARM VOLUME 0000

I/O PORT CHECK

Checks the switches and volume. \*Pressing the buttons or switches of the

corresponding headings will change "OFF" to \*The heading 'center' will be "OFF" when the

arm is in center position.

\*The heading 'L-Limit' will be "ON" when the arm is pushed down to the left (win position) and the heading 'R-Limit' will be "ON" when the arm is pushed down to the right (lose position).

\*The 'Arm Volume' will be "0000" in the center position.

\*To return to the menu screen, press the start

return

5. Motor test

Checks the motor.

\*Checks the movement from the win position (left) to the lose position (right).

\*Returns to center position and then the menu screen will be displayed again.

6. Sound test

Checks the sound.

\*Use the select button to select the desired sound.

\*Press the start button to start the check.

\*Then press the select button to return to the menu screen.

7. Dip switch

Displays the current dip switch settings. \*To return to menu screen, press start.

#### <DIP SWITCH STATUS>

SHOOT 1 SHOOT 2 1 COIN 1 CREDIT 1 COIN 1 CREDIT ON

DEMO SOUND DEMO ARM GAME LEVEL

CENTER NORMAL

TRY
GAME TIME
COUNTRY

20 SEC JAPAN

8. Game start

Exits test mode and returns to the title screen.

#### 6. HOW TO PLAY

#### 1. Product

- \*This machine is an arm wresting game where the opponent is displayed on a television screen.
  - A computer controls the motor and clutch so that the computer opponent's facial and verbal expressions and strength change according to the situation.
- \*Turning on the machine will run a memory test and motor test, then the title screen will be displayed and the machine will be operational.
- \*After inserting the coin(s), the select screen will appear where the player chooses one of the nine opponents using the select button, then presses start to begin.
- \*The machine is set so that there are two matches per play. However this can be adjusted to 1-4 matches per play by changing the dip switches.
- "If the player wins, the player will automatically compete against the next stronger opponent. Therefore, within the set number of matches per play, the player can continue to move up in strength level.
- \*If the player loses or ties, according to the number of matches per play, the player will be able to have a rematch.

#### 2. Game rules.

- \*A count of three will determine the winner after the arm is wrestled down.
- \*If a winner is not decided in the set amount of time, the match will be a tie. The machine is delivered with a tie time of 20 seconds. Changing the dip switches will allow times between 15-30 seconds at 5 second intervals.
- \*If the time expires while in the middle of the count, then the winner will be determined and it will not be a tie.

#### 3. Elbow switch

- \*A microswitch is built in the elbow cushion to monitor if the player's elbow is kept adequately on the cushion.
- \*The game will not begin unless the player's elbow is placed on the cushion. If the player's elbow is not on the cushion the screen will display a warning and a bell will sound.

If the warning is ignored, then the screen will display a countdown. When zero is reached, the screen will display, "Foul! You Lose!"

\*If during play, the player does not have his elbow on the cushion for 3 seconds, the player will be disqualified and "Foul! You lose!" will be displayed.

#### 4. Bonus game

- \*Players who are able to win all the matches during one play will win a bonus match to test their strength.
- \*After the bonus match, if the player's strength is in the top twenty, then the player's name can be recorded in the top scores chart.

7. BA

7-1 P

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#### 7. BASIC MAINTENANCE

Power Cable

#### 7-1 Power unit

The power unit can be found on the lower back part of the cabinet. In the case where the circuit breaker blows, turn off the main switch, find the cause, push the circuit breaker, then restart.

If the bell will

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Circuit Breaker (Motor protection 5a)

Circuit Breaker (Machine protection 8a)

Earthing Terminal

#### 7-2 CHAIN ADJUSTMENT

This machine is driven by a chain. If you notice some slack in the chain, please adjust the chain, using the following method:

# Caution: NEVER ATTEMPT TO ADJUST THE CHAIN WITH POWER CONNECTED TO THE MACHINE. REMOVE THE POWER CORD FROM THE WALL SOCKET BEFORE MAKING ANY ADJUSTMENTS.

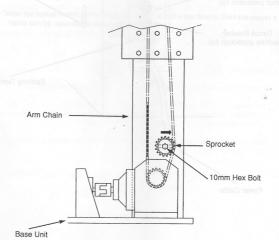
1. Adjusting the arm chain

\*Open the (lower) maintenance door and in the front is the arm chain.

\*First, loosen the 10mm hex bolt holding the sprocket ID.

\*Then slide the sprocket ID in the direction of the arrow until there is no slack in the chain.

\*Tighten the 10mm hex bolt.



e adjust

LL

in the

2. Adjusting the motor chain

\*Open the (lower) maintenance door, and at the base is the base unit.

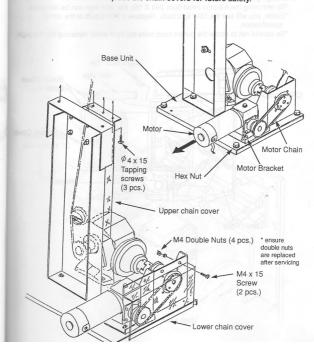
\*As shown in the illustration, locate the motor chain.

\*Loosen the four 8mm hex nuts holding the base bracket in place.

\*Move the motor in the direction shown by the arrow until there is no slack in the chain.

\*Fix the motor bracket by tightening the four 8mm hex nuts.

CAUTION: Be sure to replace the chain covers for future safety.



\*By

Ligh

Butto

#### 7-3 REMOVING THE SCREEN COVER AND CHANGING THE WIN SIGN LIGHT BUILD 7-4 ARI

1. Removing the screen cover and bezel.

\*By removing the 6 button head bolts (M4 X 15) the screen cover can be removed \*When replacing, be sure not to screw the button head bolts in too tight, otherwise the screen cover may break.

2. Changing the light bulb in the 'win' sign

\*By removing the 4 button head bolts (M4 X 15), the 'win' sign can be removed. \*Inside, you will see the 15W light bulb. Replace it with a bulb of the same

inside, you will see the 15W light bulb. Replace it with a bulb of the same specification.

\*Be careful not to screw the button head bolts too tight when replacing the the sign.

CRT Monitor

Light Bulb 15w

Win' sign
Button Head
Bolts

Screen Cove

#### 3-4 ARM CHAMPS II LAMP COVER BULB

\*By removing the 10 button head bolts (M4 X 15) the lamp cover can be removed. \*Remove and replace the burnt out light bulbs (5W) or fluorescent light. moved. erwise

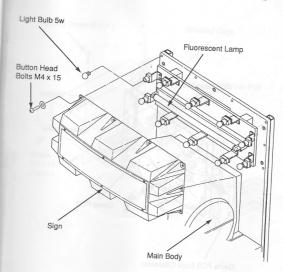
"When replacing, be careful not to screw the button head bolts in too tight or the lamp

ed.

e sign.

ead

Cover



#### 7-5 REMOVING THE GAME PCB AND DRIVER PCB

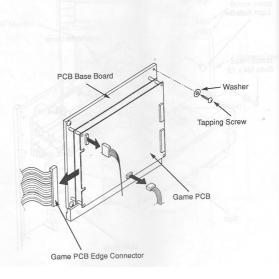
1. Removing the game PCB

\*Upon opening the service door, you will see the game PCB affixed to the left side.

\*Disconnect the 6P, 5P, and card edge connector.

\*After removing the 4 tapping screws, the game PCB can be removed.

Caution: Always make sure the machine is turned off before attempting to remove the PCB



PAGE 23

- 2. Removing the driver PCB
- \*After opening the service door, you will see the shielded cage on the floor.
  \*Disconnect the 6 connectors.
- \*After removing the 3 tapping screws, the shielded cage can be removed.
- \*Remove the 4 screws and take away the cover of the shielded cage.

Caution: Be sure to turn the power off before attempting to remove the shielded cage.

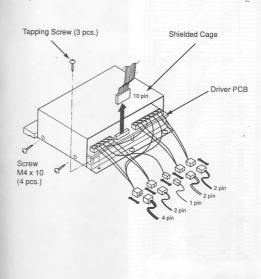
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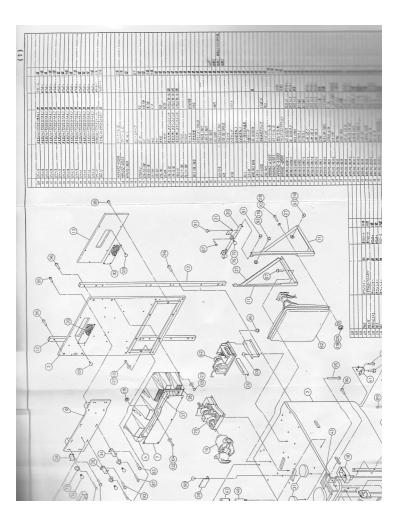
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ed to the left side.

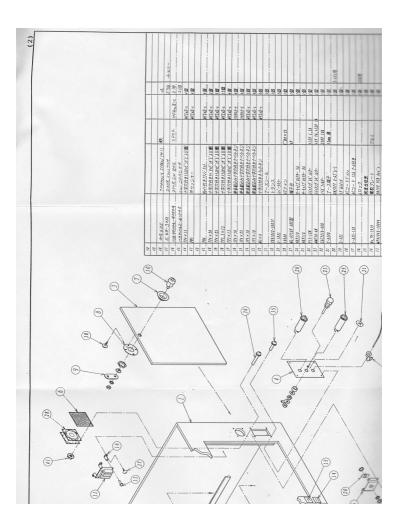
Vasher

crew

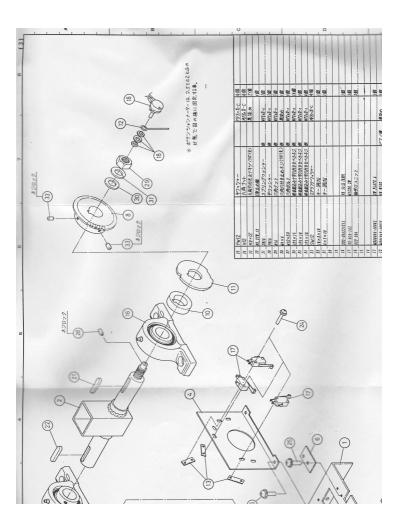




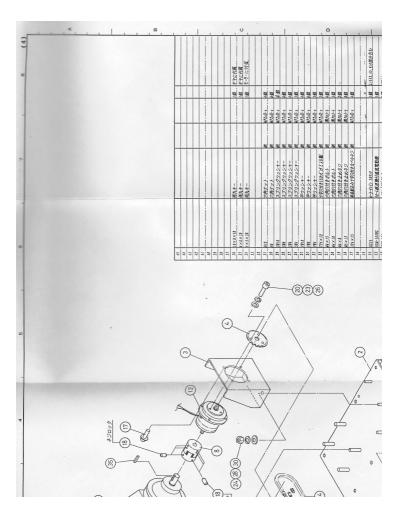
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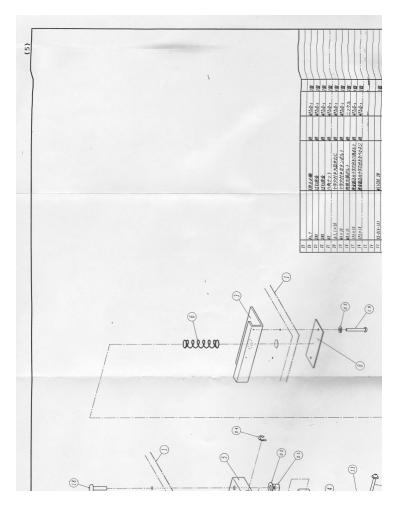
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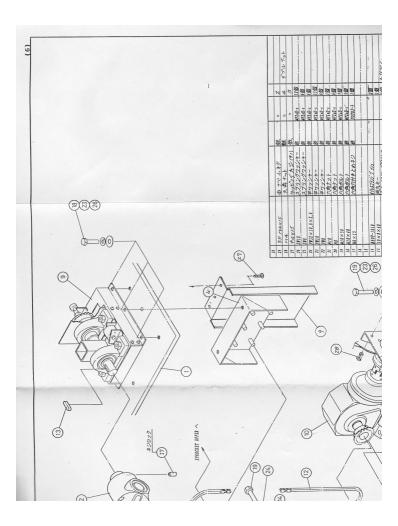
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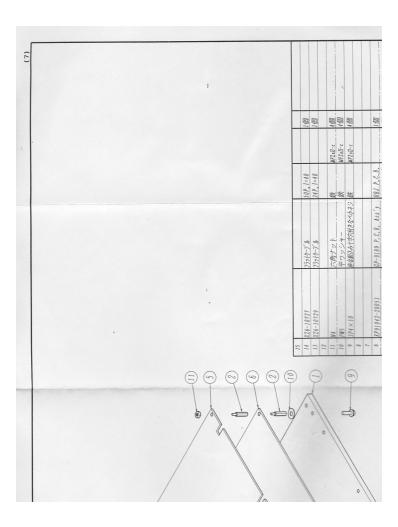
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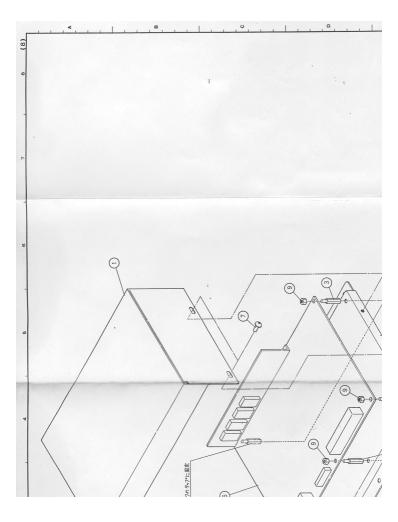
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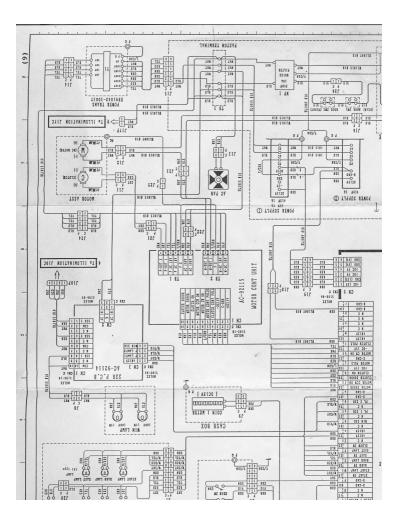
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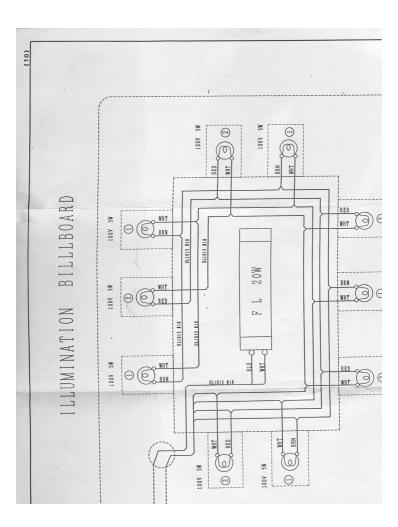
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