

SERVICE INSTRUCTIONS AND PARTS CATALOG



TAITO CORPORATION

1. Name of Part (See Figs. 1 and 2)

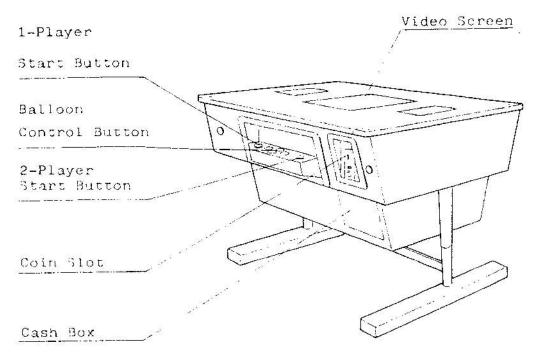
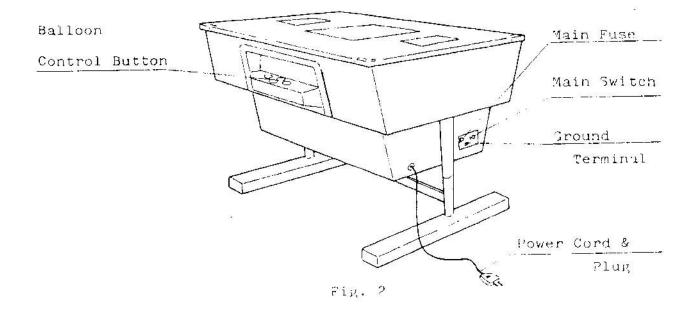


Fig. 1

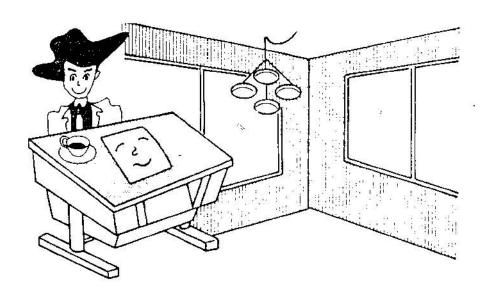


2. Transportation and Installation

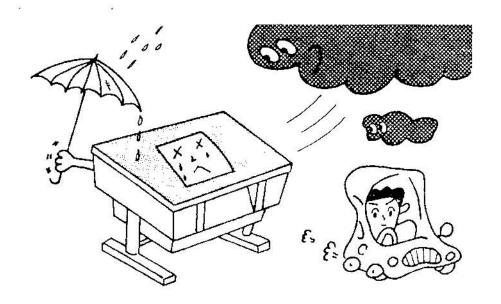
o Avoid rough handling in transportation; the picture tube is fragile.

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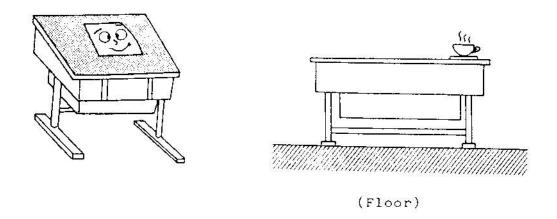
- o Taito " CRAZY BALLOON " is for indoor use.
- o Install the machine indoors only.



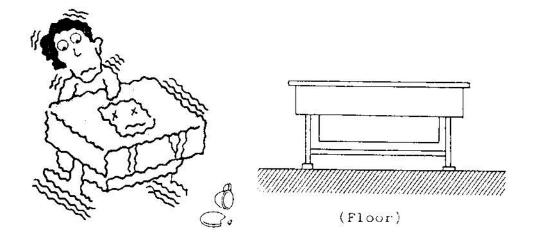
o Do not install the machine outdoors.



o Install the machine on a flat-surfaced floor and provided suitable space around the machine.

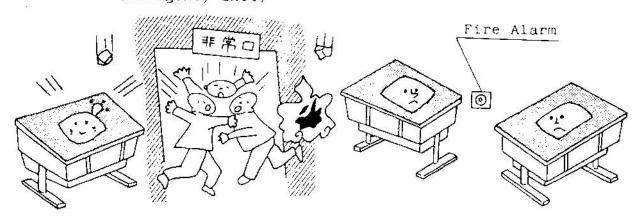


o Do not install the machine in location with vibration.

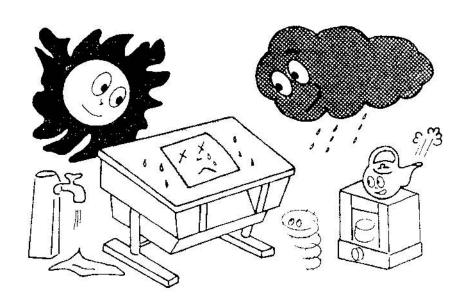


o Do not install the machine in dangerous places viewed from the angle of disaster prevention.

(Emergency Exit;



o Do not install the machine in location with experime to lirect sunlight or excessive heat in order to present the unit from rising intenal temperature. Also, to not install the machine in humid or dusty places.



- o Connections may be losen during transportation.

 Ensure all connections to the PCB's and the connections are secure before plugging in.
- , Weyer fail to connect the ground terminal.

and page 9 of this manual.

- o Insert the power plug into a proper outlet and time the power switch on.
- o In case the machine does not work properly after the power switch was turned on.

 Make sure the voltage properly exists on error output line.

 (See " Adjustments on Switching Regulator in " Board page 5

3. Handling Note and Warning

Note:

- o Erroneous picture may appear on the screen when the machine is first switched on. This typical of the CPU circuitry, and will correct itself automatically when the power switch is off and on.
- o No picture may appear on the screen for a while when the machine is switched on at a subjero temperature in the location. This is also typical of the solidstatl circuitry.

Warning:

- o Taito "CRAZY BALLOON" uses a CPU and the latest solidstate circuitry for long life, however, as with sophisticated electronic equipment certain precautions must be observed to avoid damage.
 - (1) Do not attempt to service with ordinary testing equipment, since the internal voltage of the testing equipment may cause damage to the circuitry.
 - (2) Never connect or disconnect any of the sclid-state modules while thr power is on.

4. Routine Maintenance

o Because of the solid-state electronic circuitry, this machine should require very little maintenance and only occasional adjustments, however, it is necessary to take measures to insure its daily safety.

5. Play Instructions

· .

- o Insert coin(s). 1 play : 4 balloons (adjustable)
 - o Select game for one or two players.
 - o After the game-start music is heard, play begings with the picture shown in Fig. 3.
 - Avoid all obstacles and move balloon from start to goal.
 - o In two player mode, play alternates between the two.

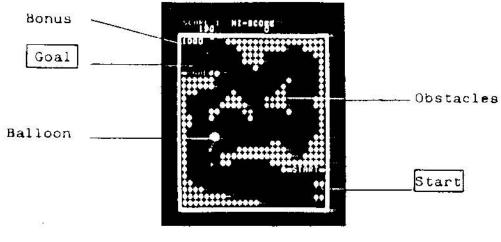


Fig. 3 (Play Mode)

o Balloon passing through obstacles scores the following points:

Yellow Obstacle 500 points
Pink Obstacle 300 points
Green Obstacle 200 points
Blue Obstarcle 10 points

o Elapsed time decreases bonus points by 20 points increments.

o Balloon will burast when kept in the same position for 5 seconds.

(See Fig. 4)

Balloon will burst by this

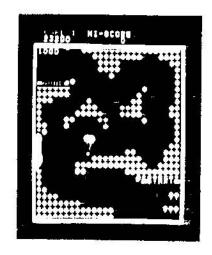


Fig. 4

- o Prame changes after face goal.
- o One balloon is awarded when score reaches 10,000 points
- o Game is over when 4th bailoun burst. (Four Salicons per new.
- o Up to 9 coins can be credited, but the credits will be cleared by vandalism.
- o High-scorer's name can be registed on the screen.
- o Push the cancel button (shown in Fig. 5) to rub out any wrong word registrations.

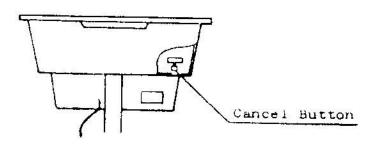


Fig. 5

6. HI-SCORE PLAYER'S NAME REGISTRATION

- (1) Alphabet (A-Z), (.), (RUB) and (END) will appear on the screen.
- (2) By pushing "LEFT" and "RIGHT" buttons, move cursor to any one character. Pushing "DOWN" button register that character. (See Fig. 6)

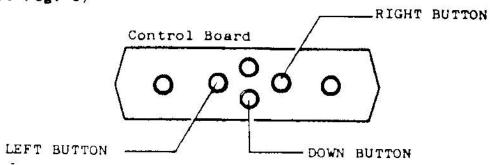


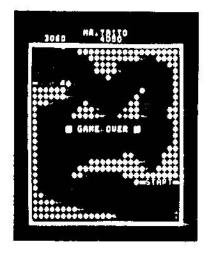
Fig. 6

"RUB" ... To erase any wrongly registered characters.

"END" ... When registration is completed, move cursor under "END" and push "DOWN" button.

- (3) Up to 10 letters can be registed, but the register will be automatically finished in the fallowing cases:
 - o When more than 10 letters are registed.
 - o When "END" is registed.
 - o When player 1 or player 2 button is pushed.
 - o When 90 seconds passed.





F1g. 7

7. Adjustments on Switching Regulator PC Board (See Fig. 8)

-4 # 0

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Caution: The line voltages should be set within the limit. Failure to do so may result in destruction of the IC's.

o To check the output voltage, measure them on the G-connector or the T-connector.

(See the attaching cable Block Diagram No. AARO0237.)

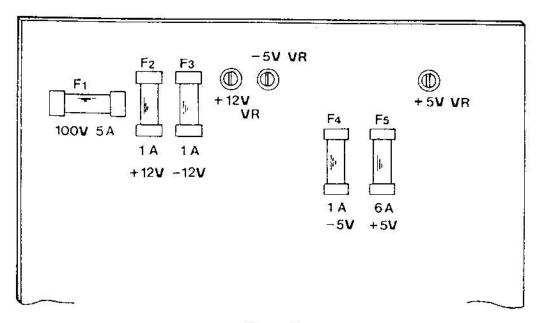


Fig. 8

o +5V VR Pot for adjusting +5V DC line voltage (Adjustment range: +4.5V to +5.5V DC)

Set approx. +5V.

o -5V VR Pot for adjusting -5V DC line voltage

(Adjustable range: -5.5V to -4.5V DC)

Set approx. -5V.

(When the +5V line hes no load, this -5V voltage is not present on the line.)

o +12V VRPot for adjusting +12V DC line voltage (Adjustable range: +10.8V to +13.2V DC) Set approx. +12V.

8. Adjustments on Game PCB (See Fig. 9 and Table 1-5)

As to the pots 1-4, to decrease the sounds, turn each pot as shown below.

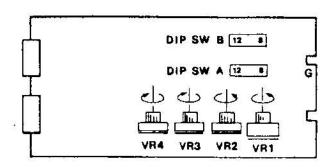


Fig. 9

- o VR1 ... Pot for adjusting the total sounds
- o VR2 ... Pot for adjusting the sounds when a balloon is broken by obstacles
- o VR3 ... Pot for adjusting the sounds and music produced when a balloon moves
- o VR4 ... Pot for adjusting the sounds when a balloon bursts

Adjustments on DIP Switch:

DIP Switch A :

· .! -

o SW1 ... Switch for checking. Normally, this switch should be set at "OFF" position.

Table 1

o SW2 ... Switch for rotating images on the screen
As this game is an upright version, this switch
should be set at "OFF" position.

01110	ON	TT Version
SW 2	OFF	Upright

Table 2

SW3 and SW4 ... Switches for changing the number of balloons

	2	3	4.	5
SW3	ON	OFF	ON	OFF
SW4	ОИ	ОИ	OFF	OFF

Table 3

These switches are preset for 4 balloons.

o SW5 ... Switch for changing the points for extended play (One balloon is given for extended play.)

SW5	ON	5,000	pts.
5W5	OFF	10,000	pts.

Table 4

This switch is preset at "OFF" position.

o SW6, SW7 and SW8 .. Switches for changing play pricing

SW6	SW7	SW8	COIN(S)	PLAY(S)
ОИ	ОИ	ОИ		
OFF	ON	ОИ	4	1
ON	OFF	ON	3	1
OFF	OFF	ОИ	2	1
ИС	ON	OFF	1	1
OFF	ON	OFF	1	2
ON	OFF	OFF	1	3
OFF	OFF	OFF	1	4

Table 5

These switches are preset for 1 coin - 1 play.

DIP Switch B:

- o SW1 ... Switch for checking. When this switch is set at "ON" position, balloon will be not broken when hitting obstacles.

 Normally, this switch should be set at "OFF" position.
- o SW2 SW5 .. These switches are connected in the circuit, but not used for changing game functions.
- o SW6 SW8 .. These switches are not used in this game.

Normally, DIP Switch B should be set at "OFF" position.

Sub ALL SWITCHES OFF

Adjustments on Color Video Monitor (See Fig. 10)

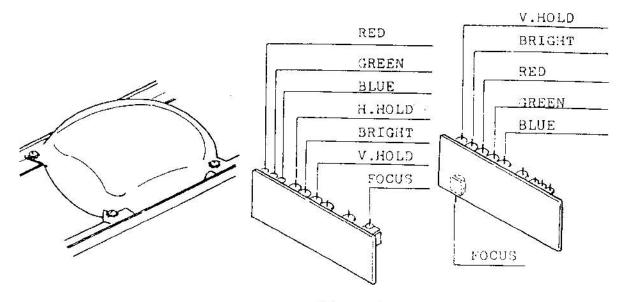


Fig. 10

The color video monitor is properly adjusted before shipping, however, if necessary, readjust as follows:

Caution: Careful attention should be reguired to adjust the horizontal hold and the vertical hold, since these adjustments are delicate.

- o Horizontal Hold

 Adjust the H.HOLD control if the picture is warpped or broken into diagonal lines.
- o Vertical Hold

 Adjust the V.HOLD control if the picture rolls vertically across the screen.
- o Screen Brightness
 Adjust the BRIGHT control to keep the screen clear.
- o FOCUS ... Screen Focus Control.

Color Control:

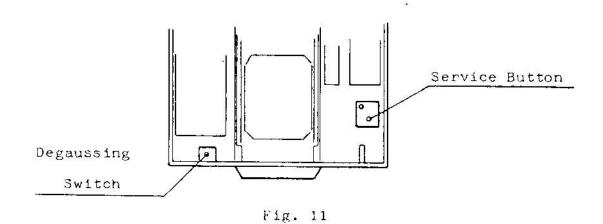
- o RED ... Pot for adjusting red color
- o GREEN .. Pot for adjusting green color
- o BLUE ... Pot for adjusting blue color
- Note: (1) Color aberration may occur depending on the setting condition of the machine. In that case, use a degsussing device. Keep magnet away from the screen, otherwise, it may result in color aberration.
 - (2) The color video monitor of Taito "CRAZY BALLOON" is for exclusive use, therefore, it can not be replaced with that of other models

10. Degaussing Switch

Color aberration may occur depending on the setting condition of the machine. In that case, use the degaussing switch. (Use this switch 10 minutes after used once.)

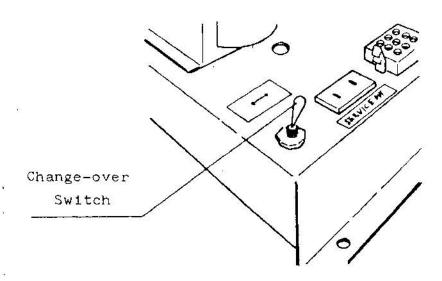
11. Service Switch

Use this service switch to increase the number of credits.



12. Adjustments of Supply Voltage (See Fig. 12)

If the voltage of the power supply is low, the picture on the screen sometimes flickers. In that case, chang the terminal of the power transformer in the cabinet. This adjustment is obtained by the use of the change-over switch.



13. Troubleshooting and Repair:

voltage checking.

This video game mainly consists of the following four units.

- o Monitor Unit
- o Game P C Board Unit
- o Control Unit
- o Power Supply Unit

These units are connected by wiring cables. If any of the units is defective, the game will not normally function. In case of troubleshooting, therefore, the first thing you have to do is to predict what unit is defective. If you can predict that a unit might be defective, check the unit. But if the unit was found to be not defective, check the other related unit(s).

- (1) Checking of Each Unit
 Use an ohm-meter (with the accuracy of the 2nd class or so) and the cable block diagram(AAROO236 or AAROO237), and make certain the numbers of the connectors and the wiring colors are correct. Next, check each unit according to the method of checking (mentioned in the item 2.)
 There are two basic checking; continuity checking and
 - A) Continuity Checking
 Each part and the PCB connector are connected by use
 of wiring cables and intermediate connectors. Check
 whether the current flows correctly through these
 - circuits according to the following procedures.

 1 Set the resistor=range of the ohm-meter at "X10" or "X100".
 - 2 Put the lead of the meter on the conductive part of the connector and put the other lead of the meter on the terminal of the part to be measured to see whether the pointer indicates at "O" Ohm. If the pointer indicates at "O" Ohm, the continuity is all right.

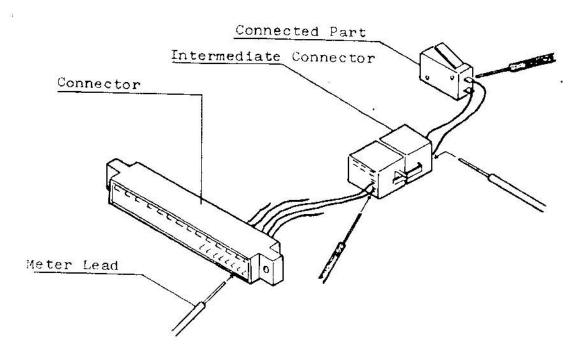


Fig. 13

B) Voltage Checking

1 Measurement of AC-Voltage

Set the ohm-meter at an AC-voltage range. In this case, select the range slightly largen than the measured voltage. Put the meter lead on the conductive part of the connector to see whether each line voltage is correctly appears.

The voltage should be nearly the same value when measured at the beginning of the wiring or at the end of the wiring.

2 Measurement of DC-Voltage

Set the ohm-meter at a DC-voltage range. In this case, select the range slightly largen than the measured voltage. Put the minus lead (black lead) of the meter on the GND line (black wire, zero volt) and put the other lead (red lead) on the point to be measured. The voltage should be nearly the same value when measured at the beginning of the wiring or at the end of the wiring.

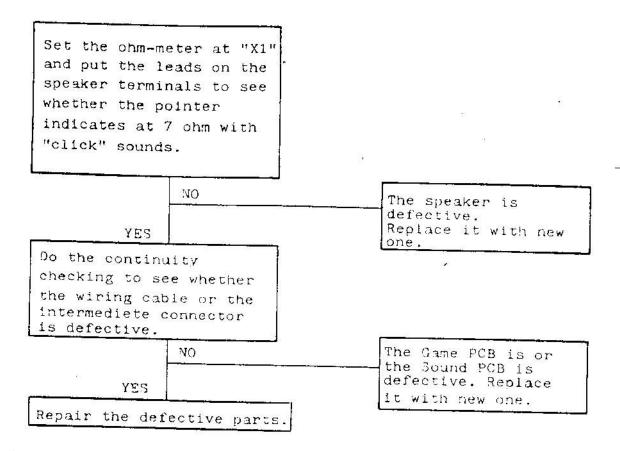
(2) Method of Checking

1 Checking on Control Unit and Coin Unit
Check whether the switches, the speakers, the coin
counters, and the lockout coils correctly function.
If these parts not normally function, check as follows:

A Check on Switches

The following switches are used in this game, the coin switch, the 1-player and the 2-player start switches, the control button switches, and the service switch.

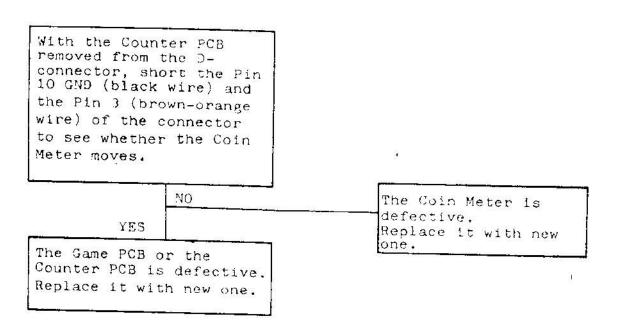
With looking the cable block diagram, set the ohm-meter at "X10" or "X100" and put the leads on the connectors connected to one of the above switches to see: "O" ohm...When the switch is set at "ON" position, and " " ohm...When the switch is set at "OFF" position. YES The Game PCB is defective. Replace NO it with new one. Put the leads on the terminals of the switch to see: "O" ohm...When the switch is set at "ON" position, and " " ohm...When the switch is set at "OFF" position. The switch is YES defective. Replace it with new one. NO Do the continuity checking to see whether the intermediate connector is defective. If defective, replace it with new one.



C Check on Coin Meter and Lockout Coil

If the Coin Meter or the Lockout Coil does not function, check as follows:

Coin Meter:



Lockout Coil: (Table type machine only.)

With the Counter PCB.
removed from the Dconnector, short the
Pin 10 GND (black wire)
and the Pin 7 (PCB
terminal) of the
connector to see whether
the Lockout Coil moves.

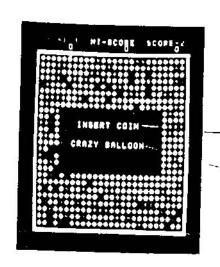
100

YES

The Lockout Coil is defective. Replace it with new one.

The Game PCB or the Countor PCB is defective Raplace it with new one.

14. Game over

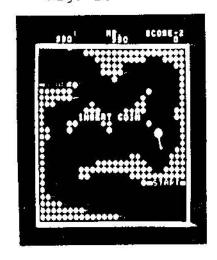


1 The characters "INSERT COIN" will flash and, except for the center part, the field will be filled with thorns (Fig. 14).

- White flashing indication

-Yallow

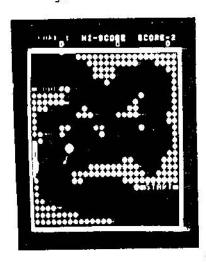
Fig. 14



- The LEVEL-1 display will appear and the characters "INSERT COIN" at the top of the center part of the screen will flash.

 The computer controlled balloon will move through the field from the START position to the goal (Fig. 15).
- 3 When the balloon enters the goal, the display of "1" will reappear.

Fig. 15

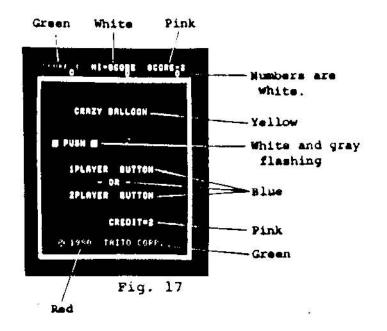


A white face will appear at the left hand side of the screen in the LEVEL-1 pattern. The computer controlled balloon will move to the top right hand side of the screen while being blown by the wind. After a lapse of several seconds a second face will appear at the right hand side of the screen and blow the balloon about until it bursts (Fig. 16).

The above steps (1) to (4) will be repeated continuously by way of demonstration until a coin is inserted.

15. Coin insertion (Fig. 17)

o When a coin is inserted the demonstration will be interrupted and the following display will appear. This display will remain until either the 1-player or 2-player start button is pressed.



OR 2-PLAYER BUTTON
This display will
appear when two or
more credits are
obtained.

- o Up until this point in time the score for the previous game will be retained.
- o When either the 1-player or 2-player button is pressed, the "LET'S ATTACK" display will appear.
- 16. LET'S ATTACK display (interval display before commencement of play) [Figs. 18 and 19].

o At the commencement of play or when the balloon enters the goal, the No. 1 display will appear and, in the latter case, triumphant tones will sound to indicate success. If the baloon fails to enter the goal, the No. 2 display will appear and appropriate tones will sound to indicate failure.

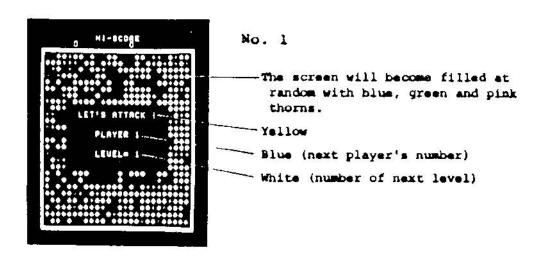


Fig. 18



Fig. 19

No. 2

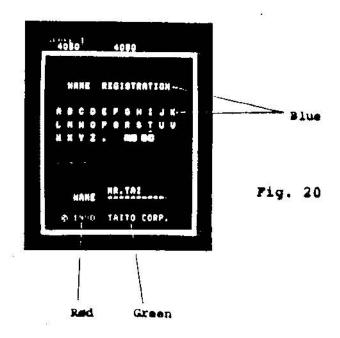
Thorns do not appear.

17. NAME REGISTRATION (Fig. 20)

o Move the cursor underneath the characters to be registered using the LEFT and RIGHT control buttons, and register the characters using the DOWN button. Register 10 characters in 1 minute 30 seconds.

The next display will come up when

- 1. END is pressed.
- 2. More than 10 characters are registered.
- 3. The 1P or 2P button was pressed.
- 4. 1 minute 30 seconds has elapsed.
- o If nothing was registered, the characters "HI-STORE" will be displayed.



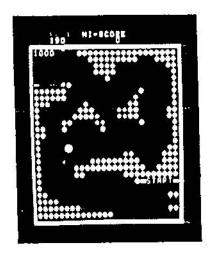
18. Description of background display

There are 3 types of basic patterns, each of which has the following features:

- 1 The thorns will be partially removed to permit the balloon to move more freely.
- (2) Some of thorns will move start to move.
- (3) All of the thorns will start to move.
- The white face is displayed from the beginning and waits for the balloon to approach it.

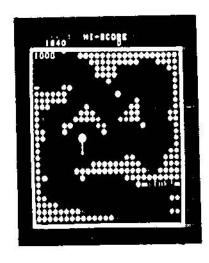
Including other variations there are a total of 16 different patterns.

LEVEL-1

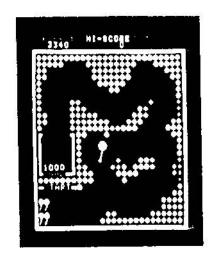


The balloon will be red and the pattern will be stationary.

LEVEL-2



Two thorns will start moving. One thorn will disappear.



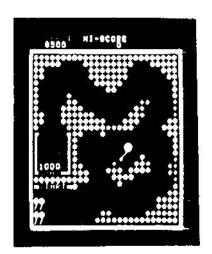
1050 H1-ecoge

The balloon will be pink and che pattern will be stationary.

of LEVEL-1, however all of the thorns will move up and shown and left and right.

LEVEL-5

LEVEL-6

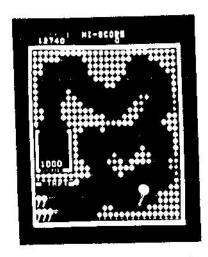


10070 H1-8cogs

The pattern is the same as that of LEVEL-3, however the number of thorns will increase slightly, weaking the game more difficult.

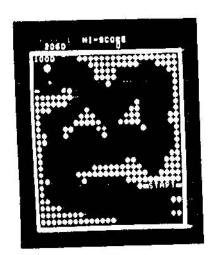
The balloon will be yellow and the display will be etationary

The thorns will move up and down. When the balloon moves underneath the thorns, the thorns will move downwards, and when the balloon moves at the left side of the thorns, the thorns will commence moving upwards.

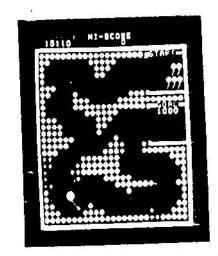


The pattern will be the same as that of LEVEL-5. All of the thorns will move up and down and left and right.

LEVEL-9

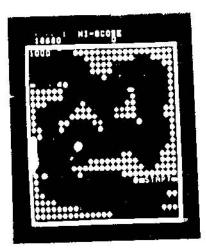


Exactly the same as LEVEL-1.

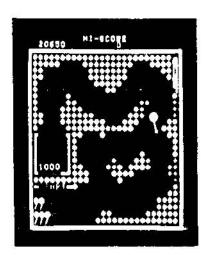


The pattern is the same as that of LEVEL-6, however the number of thorns will increase slightly. The display will be stationary.

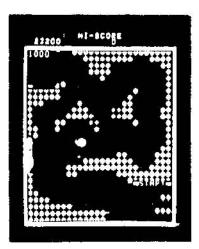
LEVEL-10



The pattern and also the movement of the thorns will be the same as that of LEVEL-2, however the face will appear on the screen from the beginning and will blow the balloon when it approaches.



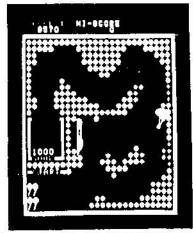
The pattern is the same as that of LEVEL-3 and the display will be stationary. The face will appear on the screen from the beginning.



The pattern and movement of the display will be the size as that of LEVEL-4 and Aliman house.

The face will appear on the screen from the beginning:

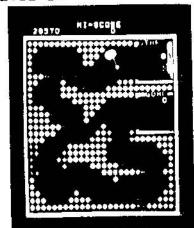
LEVEL-13



The pattern is the same as that of LEVEL-5 and the face will appear on the screen from the beginning.

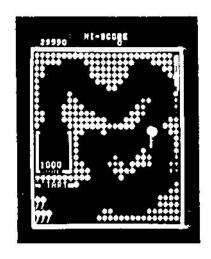
The thorns will move up and down.

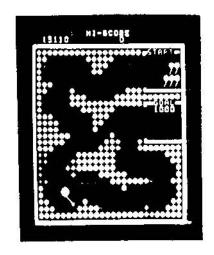
LEVEL-14



The pattern will be the same as that of LEVEL-8 and the display will be stationary.

The face will appear immediately behind the starting position of the balloon and will start blowing as soon as the balloon starts to move.





LEVEL-7 and all of the thorns will move up and down and left and right.

The face will appear from the beginning.

The pattern and movement of the "The pattern is the same of that or display are the same as that of LEVEL-8. All of the thorns will move up and down and left and right

19. Pattern movement and score-up

- o For LEVEL-17 and higher, the displays of LEVEL-1 to LEVEL-16 will appear repeatedly. Also, for LEVEL-17 and higher, the swaying of the balloon will become faster and for LEVEL-33 or above it will become still faster.
- o When the balloon strikes a thorn and bursts, the thorn will disappear.

o The balloon will not burst if it strikes the boundary at the start position, however once it has gone past the boundary, causing the score to increase by 10 points, it will burst when it touches the boundary at the start position. Once the balloon has entered the goal, it will not burst no matter what it touches.

o A bonus will be displayed at the goal position and will gradually be reduced as time passes. The bonus remaining when the balloon enters the goal will be added to the score.

The bonus will be 1000 points for the first 20 seconds and will be reduced by 20 points for every subsequent 5 seconds.

- o If the balloon is in the same position for 8.5 seconds or more, the yellow face will appear and blow the balloon in an attempt to burst it. (at the start of play this interval will be 17 seconds). Also, if the balloon does not enter the goal within 2 minutes, the face will likewise appear and try to burst the balloon.
- o When the balloon moves torards the goal by a distance equal to that of one thorn, the score will increase in accordance with the color of the thorn.

* Blue 10 points

* Green 200 points

* Pink 300 points

* Yellow 500 points

The score will only increase, however, when the field is divided into vertical and horizontal blocks in accordance with the path of the balloon and the balloon moves through the blocks towards the goal. Consequently, the score will not increase if the balloon moves in the reverse direction through the blocks or cuts across the blocks. Furthermore, once the balloon has passed through a certain point, causing the score to increase, the score to increase, the score to increase, the score to increase any more if the balloon passes through the same point a second time.

Color differentiation of basic patterns (Figs. 21, 22 and 23)

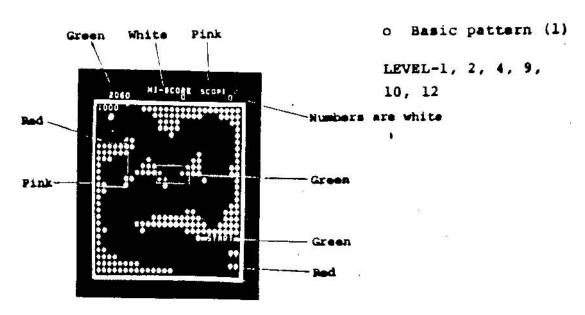


Fig. 21

LEVEL-3, 5, 7, 11, 13, 15

o Basic pattern (2) o Basic pattern (3)

LEVEL-6, 8, 14, 16

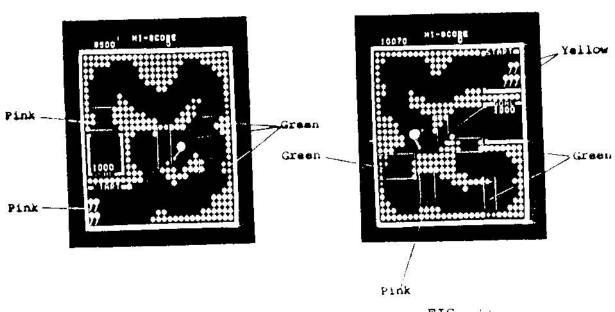


FIG. 22

FIG. C.

How to use CRAZY BALLOON CHECK ROM 21. (CHECK ROM is CL090011.)

The check ROM is used by allocating the check ROM ADDRESS between 0000 and 07FF (by replacing CL01). The check ROM can perform I.O check, SOUND check and RAM check. To change over from I.O check to RAM check, use the DIP SWA (SWI) at the top of the game board.

DIP SWA (SW1)

ON	OFF
RAM check	I.O & SOUND check

A faulty RAM indication which appears as a result of a RAM check will be displayed on the monitor as a number between 1 and 5.

Number	Meaning		
1	10E(2114)		
2	11E(2114)		
3 '	9F(2114)		
4	10F(2114)		
5	8F(2114)		

* I.O check pattern (will be displayed on the TV screen.)

POPERATO ENTREMENTAL DE		De displayed on the IV selection,
DIP SW A- 1 2 3 C C C	4 5 6 7 8 C C C C C	B- 1 2 3 4 5 C C C C C
PUSH SW		
IP- U D C C Up Down	(C - 50 A7 - 1400)	2P-UDLR CCCCC
NR C Name S reset sw	SV TL C C Service Tilt 1P sw sw	1P 2P CN C C C P select 2P select Coin sw sw sw
OUT PUT C MUSIC CAUT BREATH EXPL LAUGH C-MTR LOCK V-INV	i	When the DIP SW and PUSH SW are ON, the C marks dis- appear. During a SOUND check, the C marks will successively shift and produce the respec- tive tones. (This shifting action will be repeated.)

22. Test points

........... A signal having a period of 400 nS and 50% duty must always be applied.

When L = 0.45 V or greater, the voltage "H" must be at least Vcc - 0.6 V.

INT Must remain at "H" during RAM check.

During I.O check or game, a signal having
a period of 1/60 sec which falls to "L"

and then rises to "H" after several tens
of µ seconds must be applied.

The rise of this signal must be synchronized with the rise of "VBL".

In this way, an interrupt will appear at the CPU when the TV screen goes into a BLANKING CONDITION.

RESET Shall be "H" level under normal conditions.

This signal shall become "H" when either the CPU goes into a runaway condition or the POWER-RESET does not function, thus preventing a deadlock.

It will become an "L" reset signal after
a maximum of 4 seconds, and after a further
4 seconds will return to "H" to apply reset.

MVID Brightness signal to TV.

图的文字中,一个大学的文字,是是一个人,我们就是一个人,我们也是一个人,我们也是一个人,也是一个人,一个人,也是一个人,也是一个人,也是一个人,也是一个人,也是一个人

This signal is independent of the balloon pattern which is made separately. It must vary in units of 200 ns.

If noise appears on this signal, the balloon may hit a thorn in an, unlikely place or stripes may appear on the screen.

STNC TV synchronizing signal

Horizontal synch signal: 15.36 KHz

Vertical synch signal: 60 Hz

- * To technicians who repair printed circuit boards (P.C.D.)
- 1. Have a clear understanding of the content of the fault.

 It is basically necessary, for only for a P.C.B. but also for any piece of equipment, to be clear as to what is wrong. Establish whether there is no image at all on the screen, no sound being emitted or a particular operation cannot be performed, etc.

Establishing faulty part

Once the content of the fault is clearly established, it is then necessary to pinpoint the location of the fault. The basic method of doing this is to gradually narrow the range of possible fault points. For example, if there is no explosion sound, first check whether or not explosion sound trigger signal is being emitted.

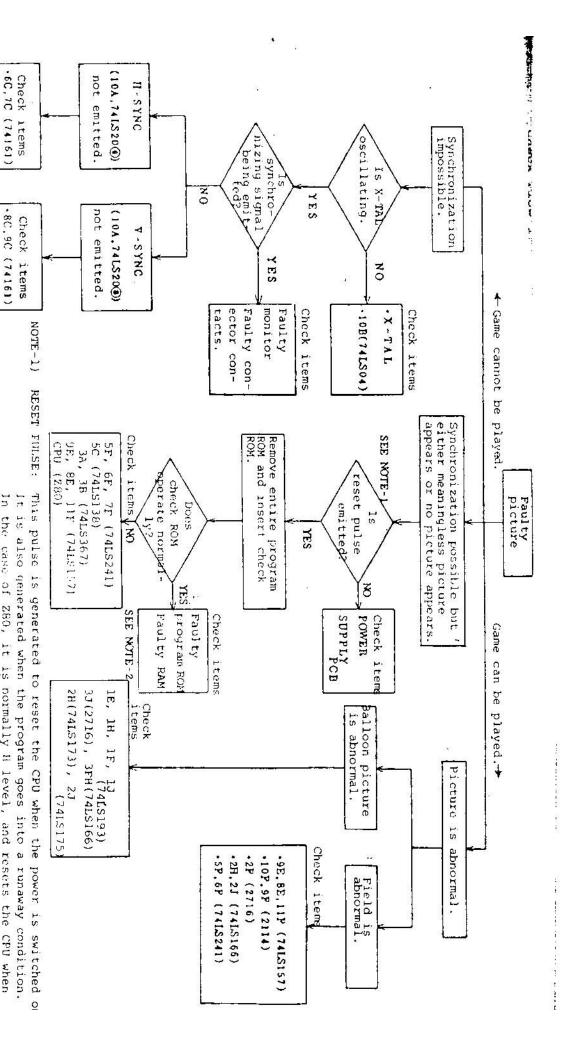
(2F, 74LS273 Pin (9)) If it is being emitted, there is a fault in the subsequent sound generator circuit. If it is not being emitted, there is a fault in the I.C.

(2F, 74LS273) which generates the grigger signal.

If there are two or more printed circuit boards, try changing over the CPU board and game board. By comparing the respective conditions of the machine, it is possible using this method to determine which board is faulty.

のできたが、これでは、「「「「「「」」」というできない。「「「「」」では、「「」」では、「「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」」では、「」

Refer to the check flow on the subsequent pages when checking a picture, sound or operation fault. A synchroscope (at least 20 MH) should be used to check printed circuit boards.



NOTE-3) Refer to the master clock timing table

details, refer to the method of using

SEE NOTE-3

SEE NOTE-5

NOTE-2)

If the check ROM operates normally, it will be possible to perform RAM check.

For

the check ROM.

In the case of Z60, it is normally H level, and resets the CPU when

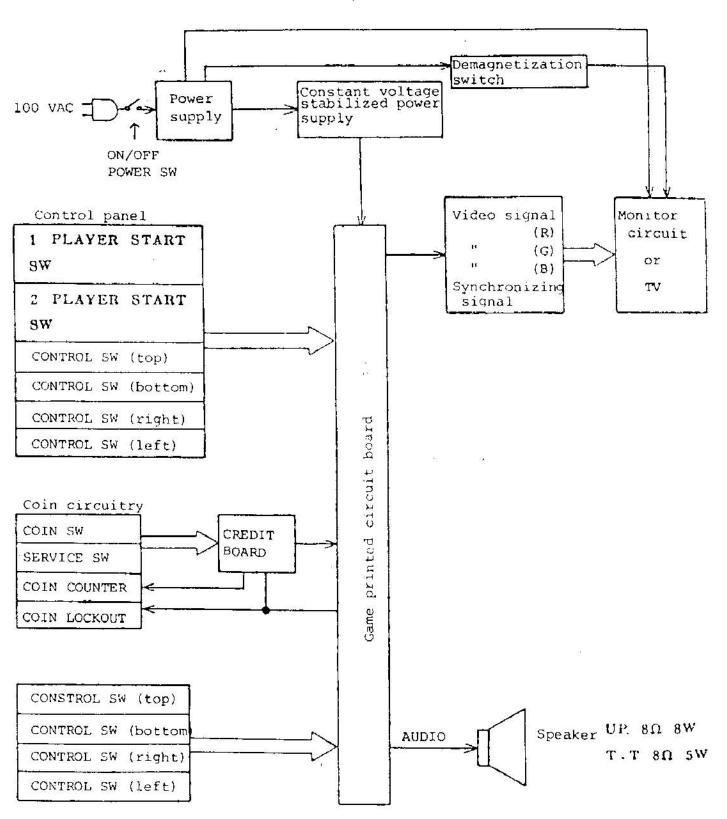
it becomes L level.

-100 (741874)

·11C (741S74)

1

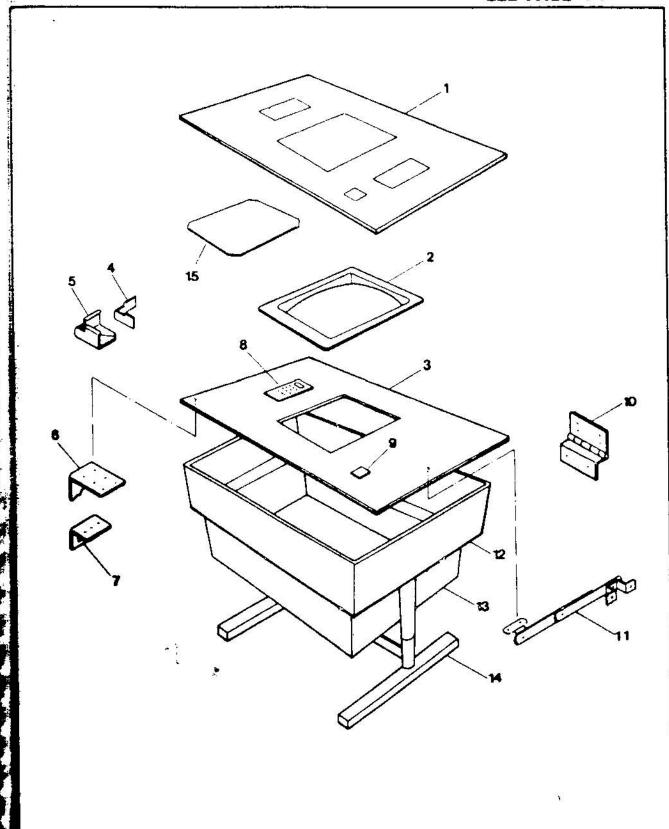
The state of the s



2-player control panel
(Table type machine only)

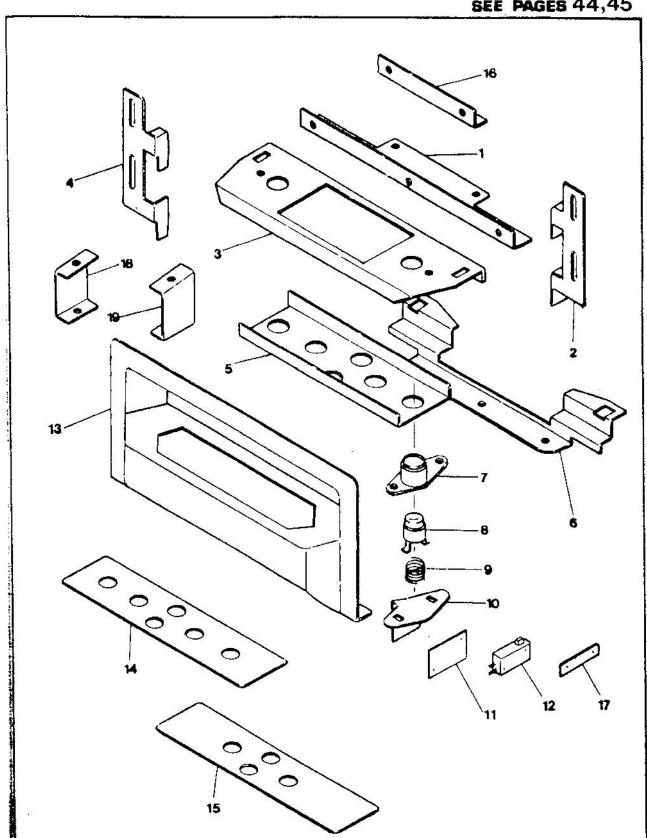
CABINET ASS'Y

SEE PAGE 44

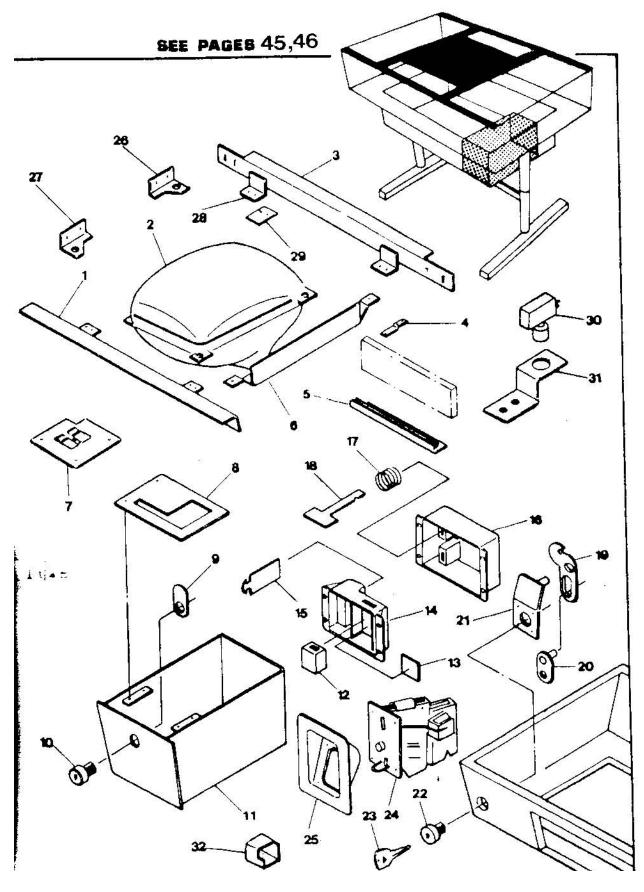


CONTROL PANEL ASS'Y

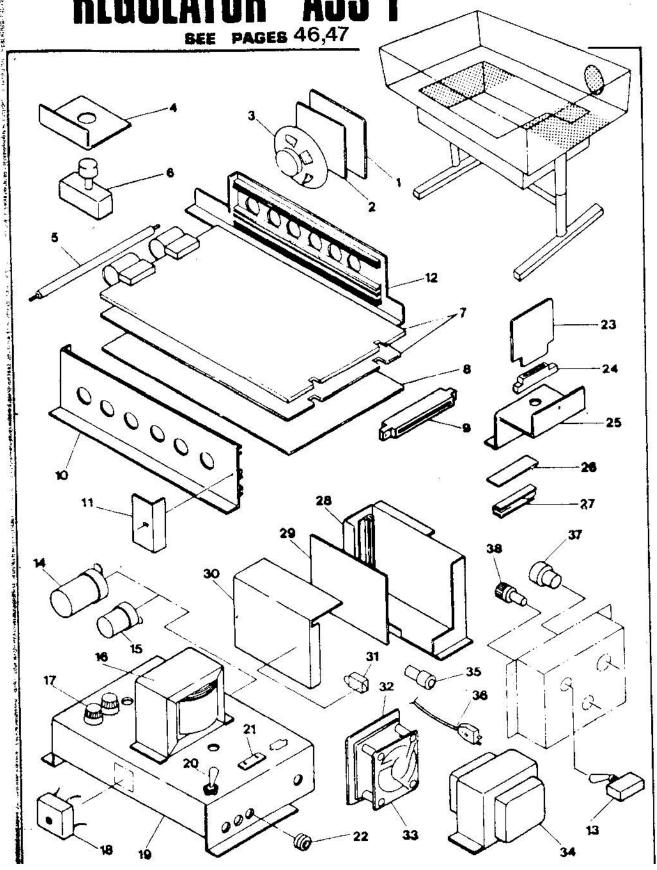
SEE PAGES 44,45



VIDEO AND CABINET ASS'Y



PRINTED BOARD AND REGULATOR ASS'Y



CABINET ASS'Y

I t • m	Part &	Description
1	LA090007	Table Top Glass
2	AA019578	Video Mask
3	LA010001	Top Board
	AA019545	Glass Bumper
5	AA013593	Corner Bracket
6	AA013605	Lock Bracket
7	AA013606	Hook
8	CL070011	Instruction Card
	CL070012	High Score Card
9	AA029521	Coin Sticker
10	TWO60001	Hing Ass'y
11	AAO16553	Hing Assy
12	CVO10006	Table Box
1 3	CVO30024	Bottom Box
14	AAO16556	Table Leg
15	LA090008	Color Plate
16	LAO50001	Mask Support Spring

CONTROL PANEL ASSY

Item	Part /	Description
1	CL030004	Control Bracket (B)
2	CL030005	Control Lock (A)
3	CL030001	Control Base
4	CLO30006	Control Loak (H)
5	CL030007	Switch Base
6	CL030002	Control Support W
7	AAO19574	Push Button Housing White
Ç.	AAO19572	Push Button Housing Red
13,	AAO19573	Push Button White
	AAU19571	Push Button Rod

Ge.		
Item	Part A	Description
b 9	CLU50001	Button Spring
10	CL030008	Push SwitchBrackt
. 11	AA019504	Insulator V-Type
12	AAQ52577	Mioro Switch VL-1
13	CL090009	Control Panel
14	CLO70007	Control Plate (A)
15	CL070008	Control Plate (8)
16	CL080003	Control Bracket (A)
17	CLO30011	Tap Plate
18	CL030009	Control Support (B)
19	CL030010	Control Support 5

VIDEO AND CABINET ASSY

Item	Part &	Description
1	LA030005	Support Bracket (A)
2		Video 14inch Color
્રે 3	LA030006	Support Bracket (B)
4	CV030028	Video Circuit Board Support
5	TV090009	Guide Rail
•	LA030001	Video Brackst
7		Coin Chute (C)
. 8	CV030003	
1 2 3 4 5 6 7 8	AA013511	Lock Plate
10		Lock & Key
11	CVU30002	95/4
12 13	AA051717	Counter ME-5
13	AA018558	
14		Counter Box
1.5		Contact Plate (4)
16		Contact Plate Guide
17	WTO50002	
17		Contact Plate W

l tem	Part Ma	Description
19	AAO13604	Lock Lever
20	AA013603	Lock Plate
2 1	AAO13602	Lock Lever Pin
22	AA016561	Service Lock A8000
23	AAO16562	Service Key Masuuu
24		Rejector
2 5	AAU19552	Coin Entry Cover
26	LAO30003	Video Support Bracket (B)
2 7	LAO30002	Video Support Bracket (A)
28	LA030004	Video Bracket Base
29	AAO19575	Insulation Sheet
3 0	AAO52511	Push Button Switch VAQ-4R
3 1	PVO30001	Puen Switch Bracket
3 2	AAO13624	Coin Return Cup

PRINTED BOARD REGULATOR ASSY

ltem	Part A	Description
1	AAT71001	Speaker 811 5W 12cm
2	WN090007	Net
3	WN030015	Punching Metal
4	AAO13575	Push Switch Bracket
5	TU020001	Shaft
6	AAO52511	Push Button Switch VAQ-4R
7	CLK00001	Main P.C Board Ass'y
8	CVO30022	Shield Plate
9	AAO55949	AMPLEAF Connetor 18P
10	WTO90008	P.C Board Guide (B)
11	CV030023	Stop Bracket
1 2	AAU19547	P.C Board Guide
1 3	AAU52501	Toggle Switch S-301
14	AAT41175	Capacitor 35LASN 4700
15	AAT41172	Capacitor 35LASN 1000

