

**SERVICE INSTRUCTIONS
AND PARTS CATALOG**



TAITO CORPORATION

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

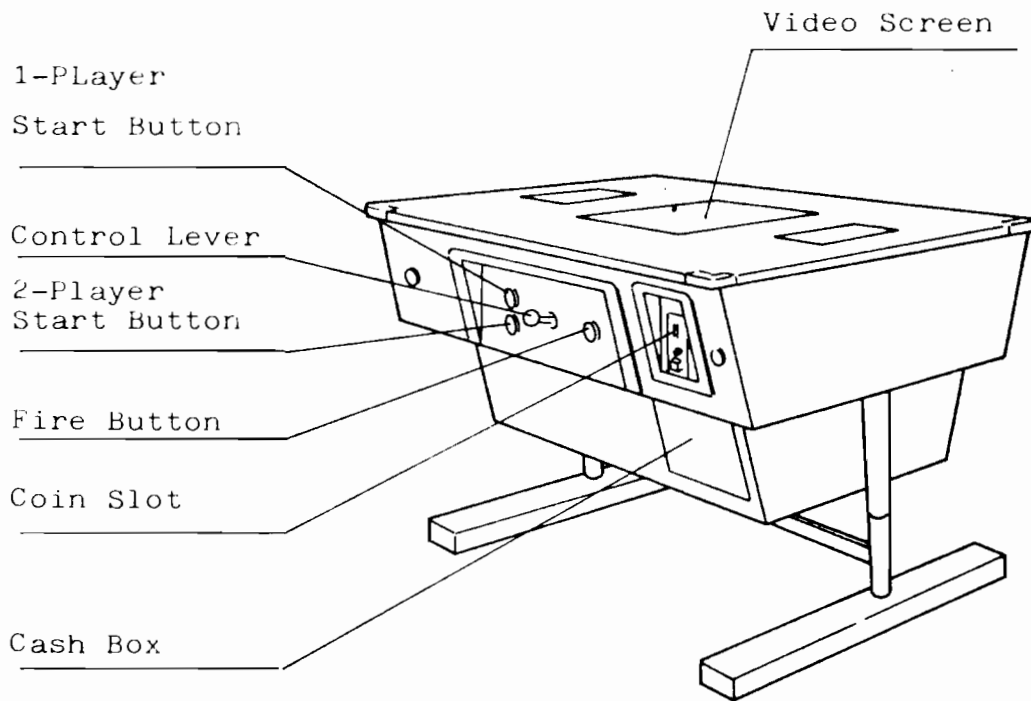


Fig. 1

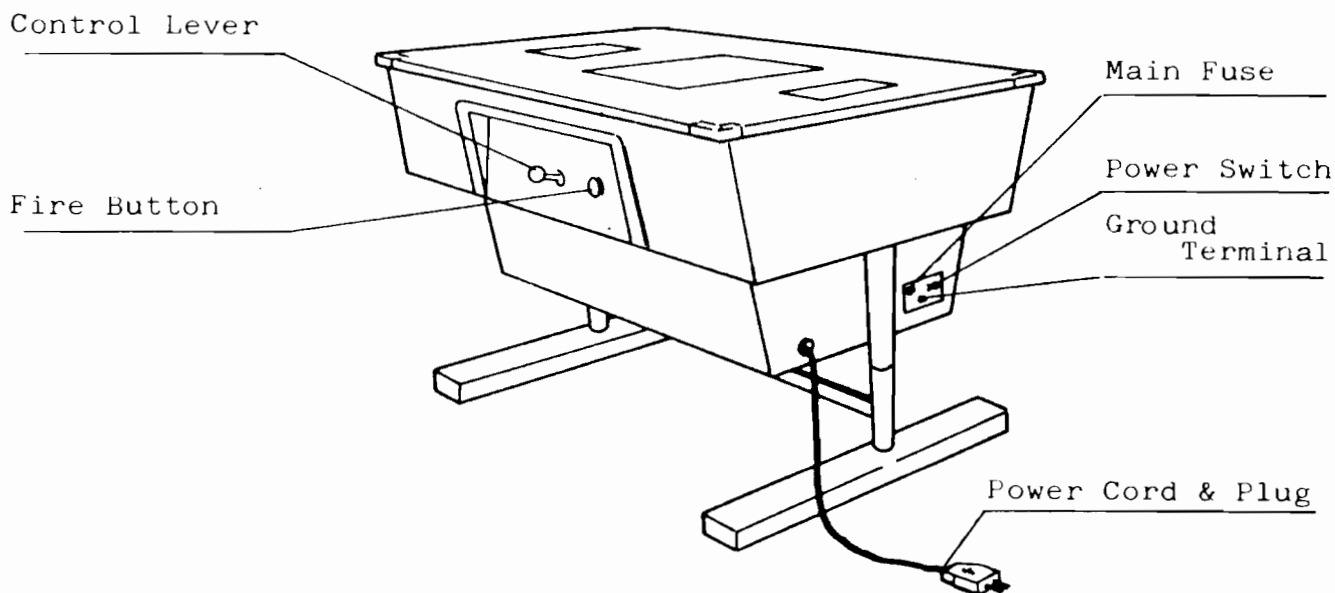
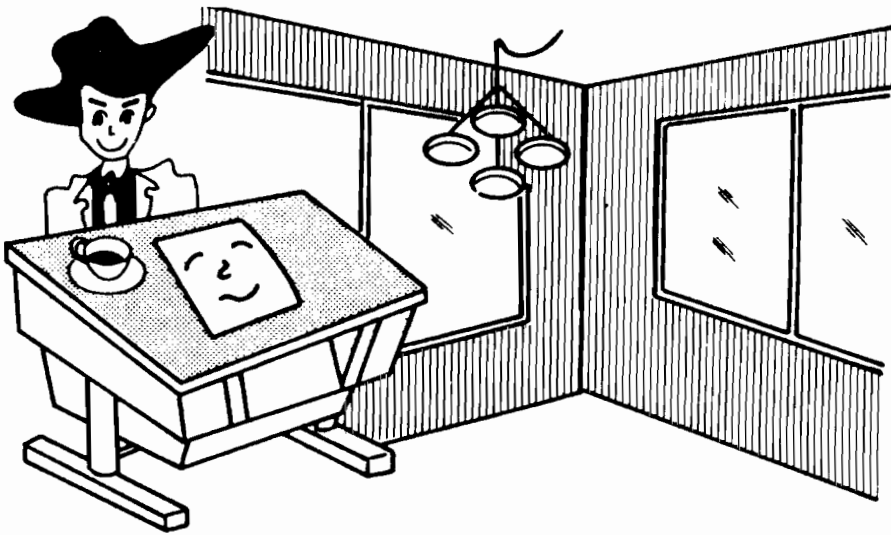


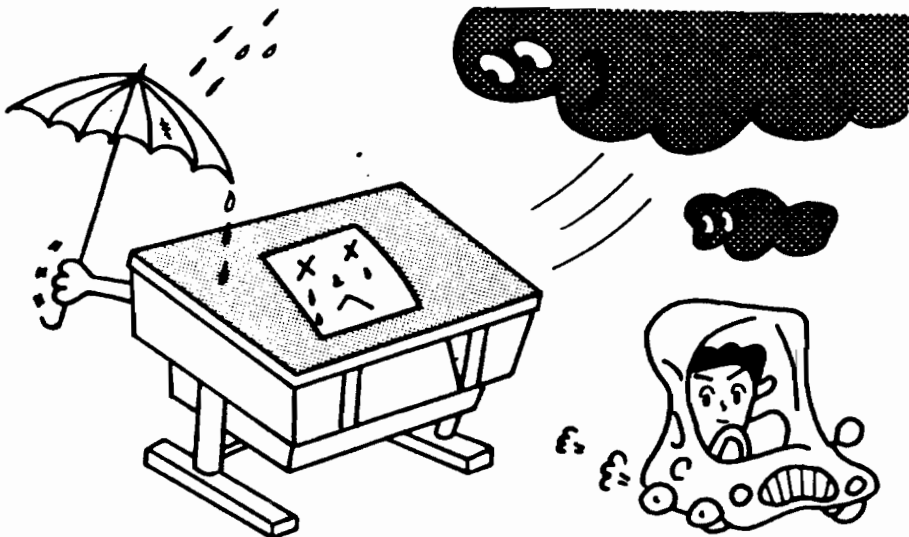
Fig. 2

2. Transportation and Installation

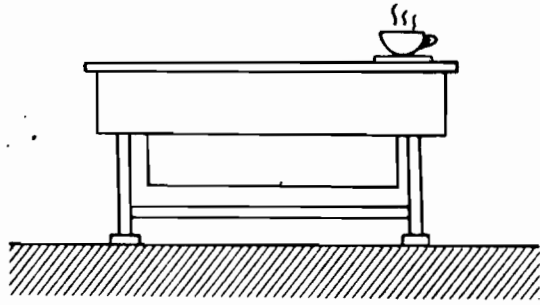
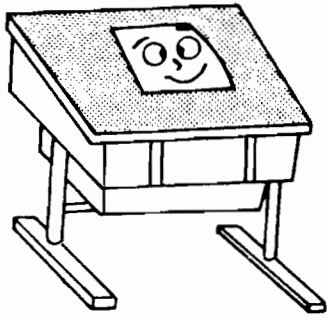
- o Avoid rough handling in transportation; the picture tube is fragile.
- o Taito "T.T STRATOVox" is for indoor use.
- o Install the machine indoors only.



- o Do not install the machine outdoors.

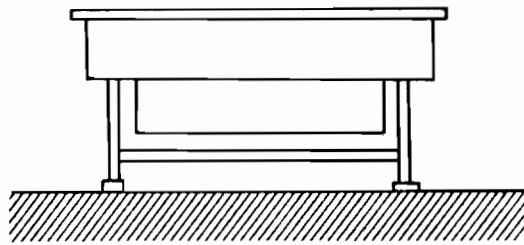
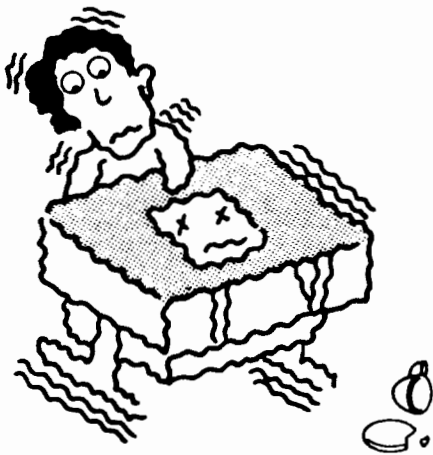


- o Install the machine on a flat-surfaced floor and provided suitable space around the machine.



(Floor)

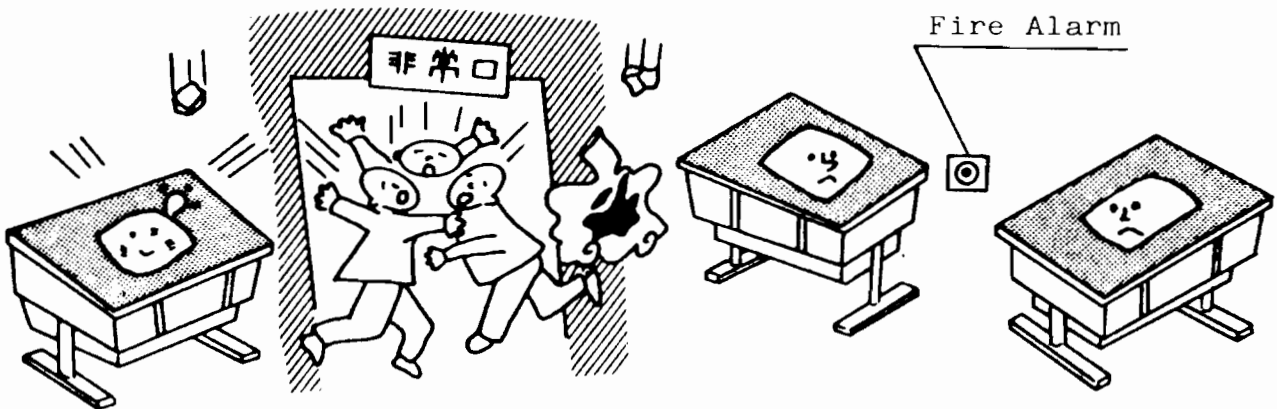
- o Do not install the machine in location with vibration.



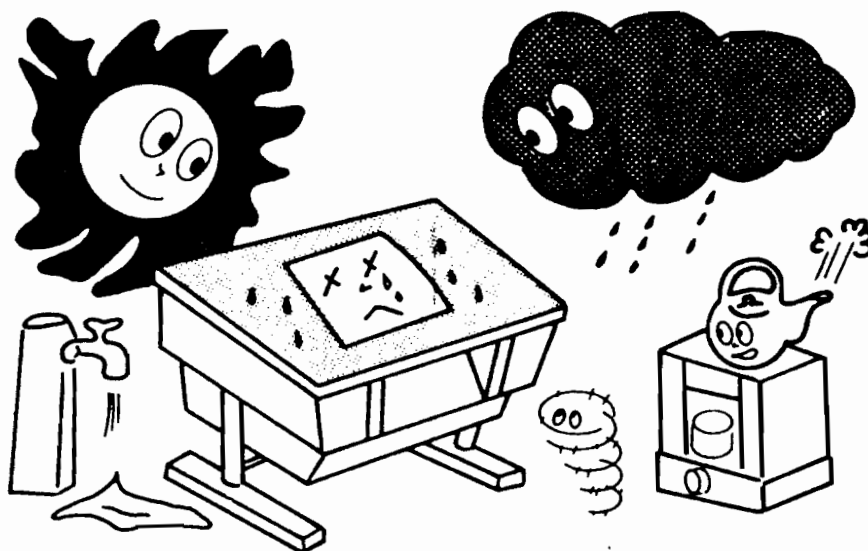
(Floor)

- 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 exposure to direct sunlight or excessive heat in order to prevent the unit from rising internal temperature. Also, do not install the machine in humid dusty places.



- o Connections may be loosen during transportation.
Ensure all connections to the PCB's and the connectors are secure before plugging in.
- o Never fail to connect the ground terminal.
- o Insert the power plug into a proper outlet and turn 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 each output line.
(See "Adjustments on Switching Regulator PC Board page 5 and page 7 of this manual.)

3. Handling Note and Warning

Note:

- o Erroneous picture may appear on the screen when the machine is first switched on. This is 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 subzero temperature in the location. This is also typical of the solid-state circuitry.

Warning:

- o This game uses a CPU and the latest solid-state 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 ordinaly testing equipment, since the internal voltage of the testing equipment may cause damage to the circuitry.
 - (2) Never connect or disconnect any of the solid-state modules while the power is on.

4. Routing Meintenance

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

5. Play Instructions

- o Insert coin(s).
- o Select game for one or two players.
- o Use joystick to control your aim and shoot flying saucers.
- o If you hit flying saucer which is just kidnapping an astronaut, you score mystery points.
- o Game is over when all astronauts have been kidnapped or all laser cannons have been destroyed.

6. Adjustments on Switching Regulator PC Board

(See Fig. 3)

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 cable block diagram, in this manual.)

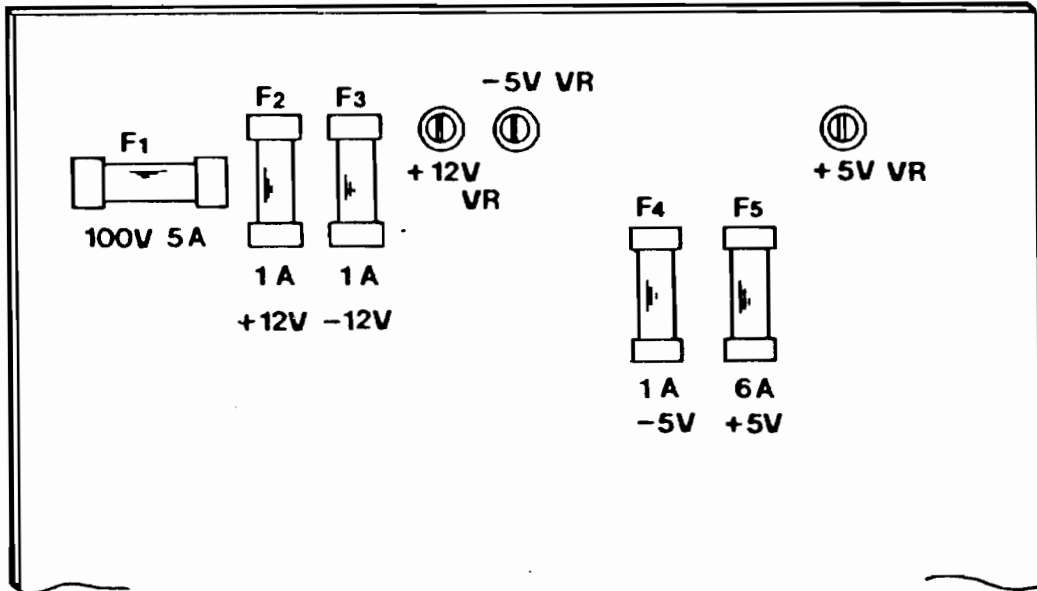


Fig. 3

- o +5V VR ... Pot for adjusting +5V DC line voltage
(Adjustable 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 has no load, this -5V voltage is not present on the line.
- o +12V VR .. Pot for adjusting +12V DC line voltage
(Adjustable range: +10.8V to +13.2V DC)
Set approx. +12V.

7. Adjustments on Game PC Board (See Fig. 4 and Table 1,2)

- o To decrease the sound, turn each pot to the direction as shown below.

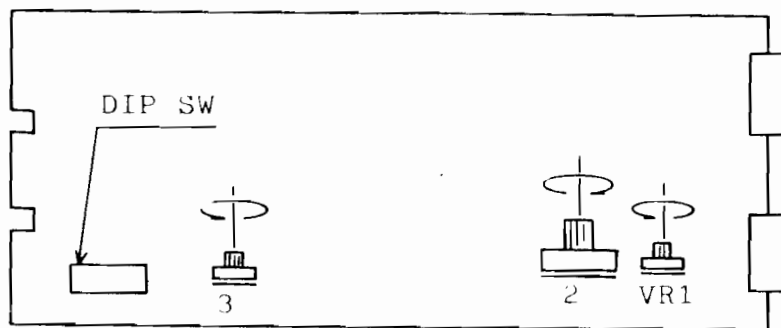


Fig. 4

- * VR1 ... Pot for adjusting explosion sounds of beam gun
- * VR2 ... Pot for adjusting total sounds
- * VR3 ... Pot for adjusting the volume of voice

Setting for DIP Switch:

- o SW1 ... Switch for setting the number of beam guns
 - "OFF" ... 3 beam guns "ON" ... 5 beam guns
- o SW2 ... Remaining number of astronauts when a frame is changed to the next.
 - "OFF" ... No astronauts are added
 - "ON" 10 astronauts
- o SW3 and SW4 ... Switches for the number of frames on witch 2 groups of UFO's appear at the same time

Number of Frames	SW 3	SW 4
2	OFF	OFF
3	ON	OFF
4	OFF	ON
5	ON	ON

Table 1

- o SW5 ... Number of astronauts who are kidnapped (when SW2 is set at "OFF".)

Difficulty	SW 5
Easy	OFF
Difficult	ON

Table 2

- o SW6 ... Switch for inversing the screen images
 - "ON" ... No inversion
 - "OFF" .. Inversion
- o SW7 ... Switch for Changing the screen direction
 - "OFF" ... Normal Direction
- o SW8 ... Switch for producing the voice in attract mode
 - "ON" ... Voice is heard
 - "OFF" .. No voice is heard

8. Adjustments on Color Video Monitor

(See Fig. 5)

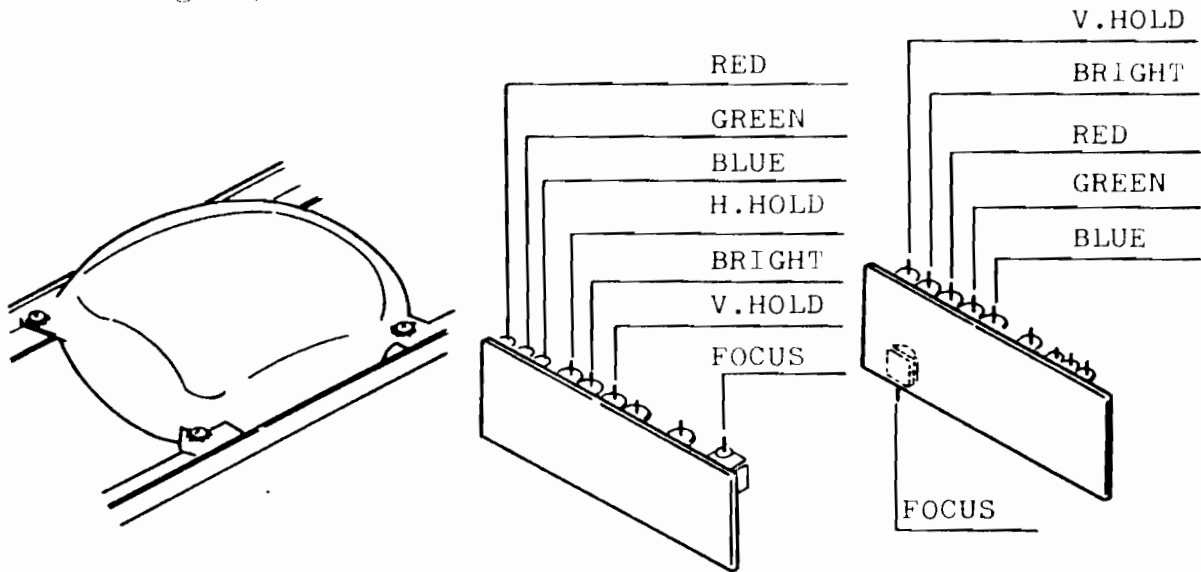


Fig. 5

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

Caution: Careful adjustments are required for the H.Hold and the V.Hold adjustments.

o Horizontal Hold

Adjust the H.HOLD control if the picture is warped 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

o RED, GREEN, and BLUE ... Color Controls

Note: (1) Color aberration may occur depending on the setting condition of the machine. In that case, use a degaussing device. Keep magnet away from the screen, otherwise, it may result in color aberration.

4. Adjustments of Power Supply (See Fig. 6)

If the voltage of the power supply is low, the picture on the screen sometimes flickers. In that case, change the terminal of power transformer in the cabinet.

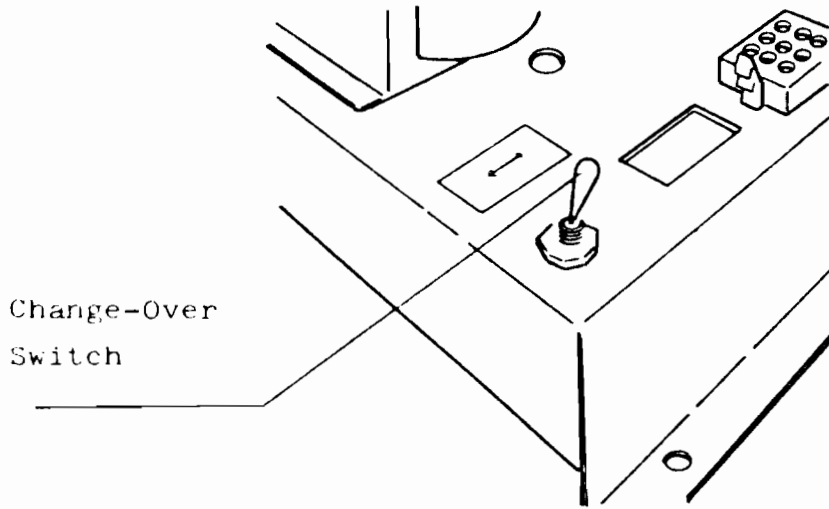


Fig. 6

10. Troubleshooting and Repair:

This Video game mainly consists of the following four units.

- o Monitor Unit
- o Game PC Board Unit
- o Control Unit
- o Power Supply Unit

These units are connected by wiring cable. 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 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 Voltage checking.

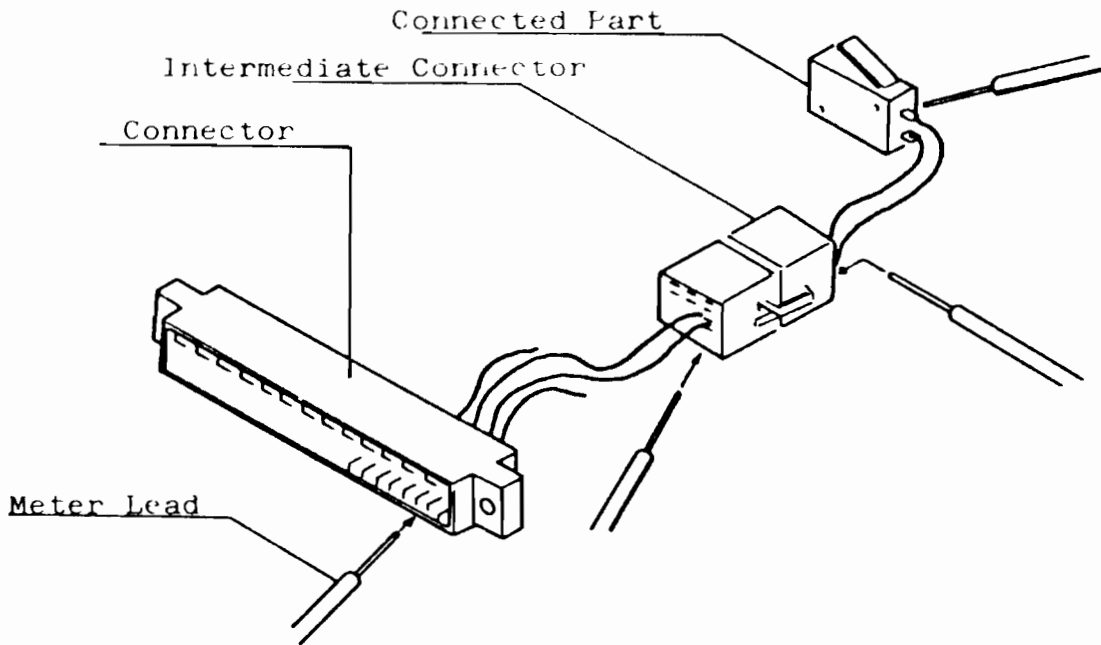
A) Continuity Checking

Each part and the PCB connector are connected by use of wiring cable and interediate 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 "0" ohm. If the pointer indecates at "0" ohm, the continuity is all right.

(CONTINUITY CHECKING)



B) Voltage Checking

1 Measurement of AC-Voltage

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

2 Measurement of DC-Voltage

Set the ohm-meter at a DC-voltage range. In this case, select the range slightly larger 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.

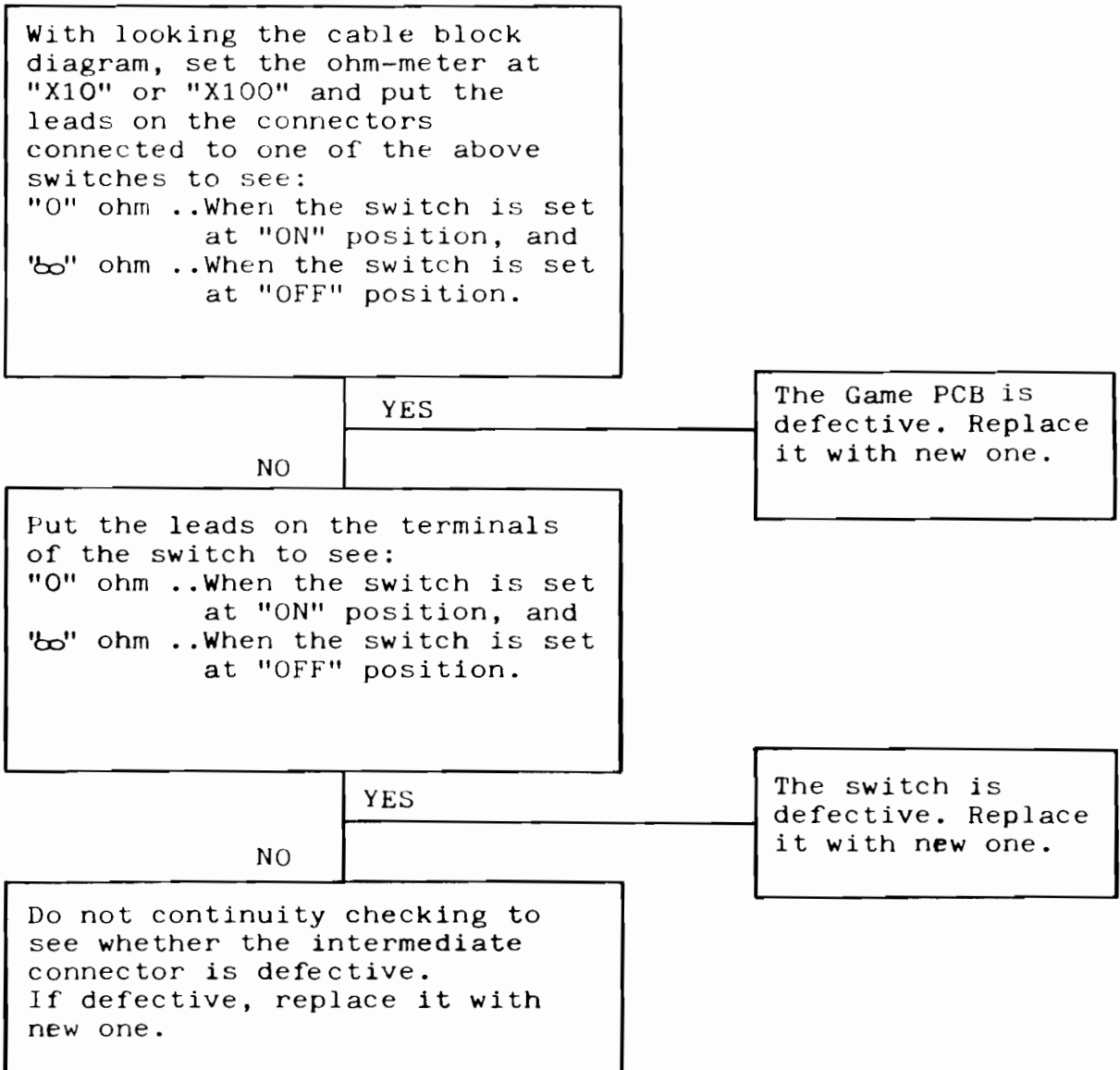
(2) Method of Checking

1 Checking on Control Unit and Coin Unit

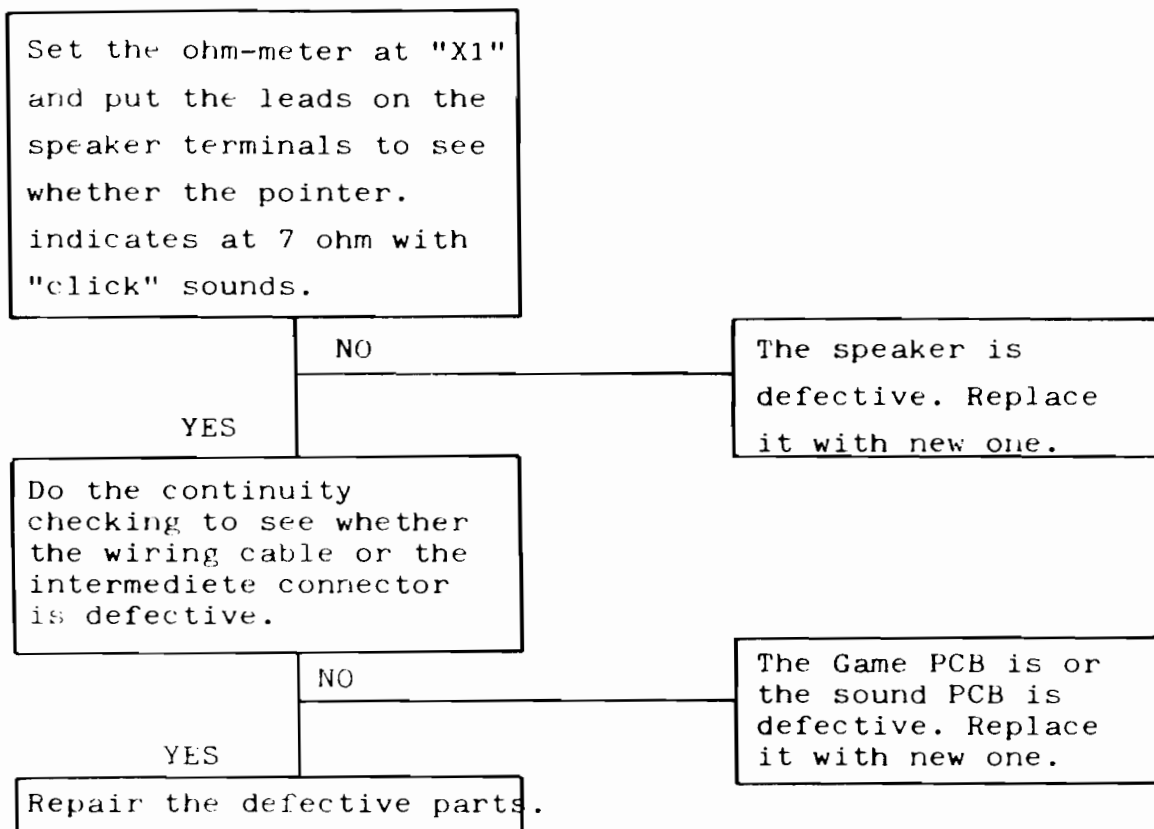
Check whether the switches, the speakers, the coin counters, and the lockout coils correctly function. If these parts not normally function, check as follows:

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 switch, and the service switch.



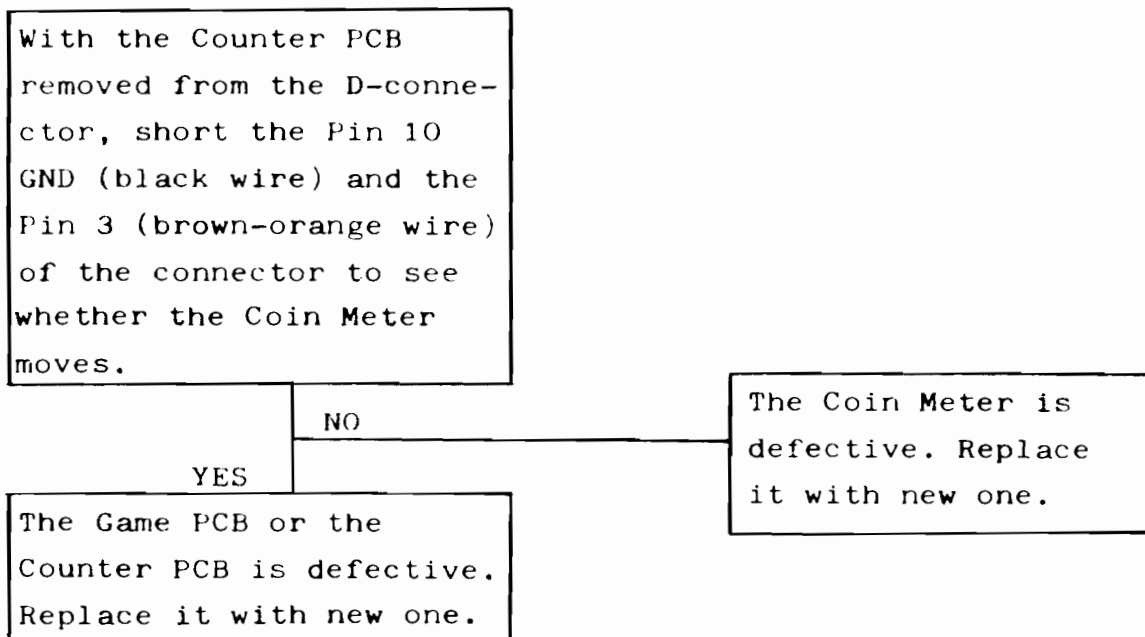
B Check on Speaker



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 D-connector, short the Pin 10 GND (black wire) and the Pin 9 (black-white wire) of the connector to see whether the Lockout Coil moves.

NO

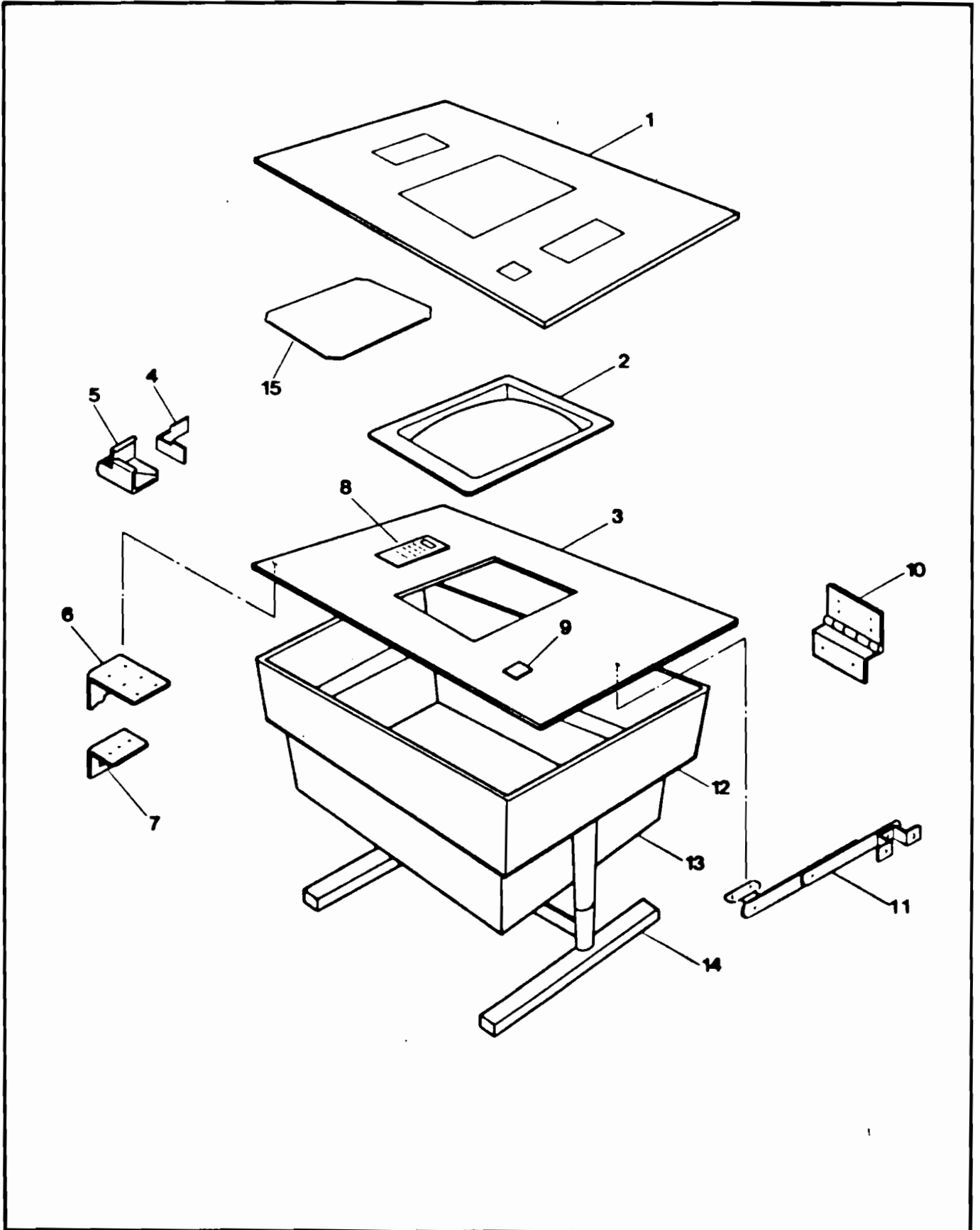
The Lockout Coil is defective.
Replace it with new one.

YES

The Game PCB or the Counter PCB is defective. Replace it with new one.

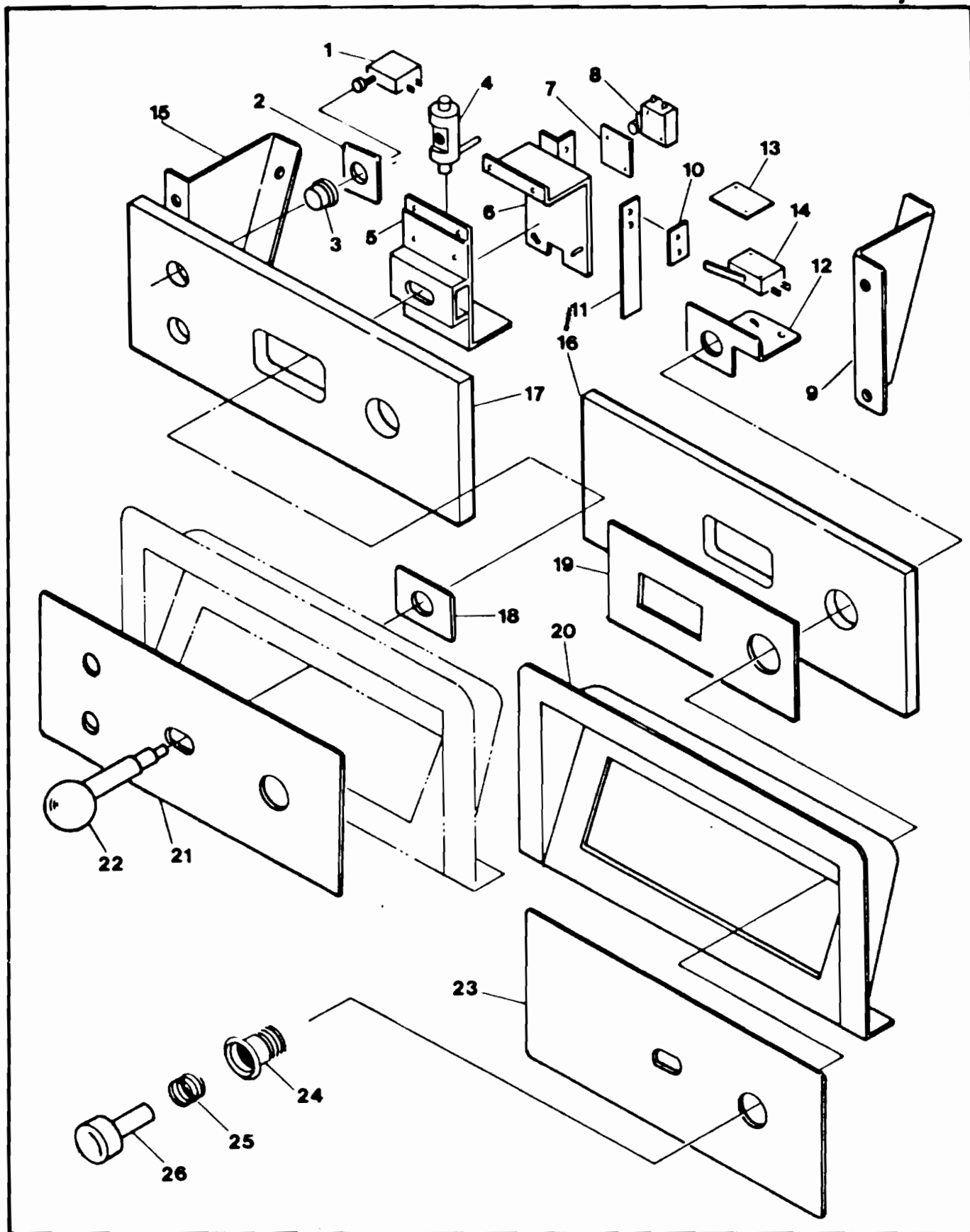
CABINET ASS'Y

SEE PAGE 21



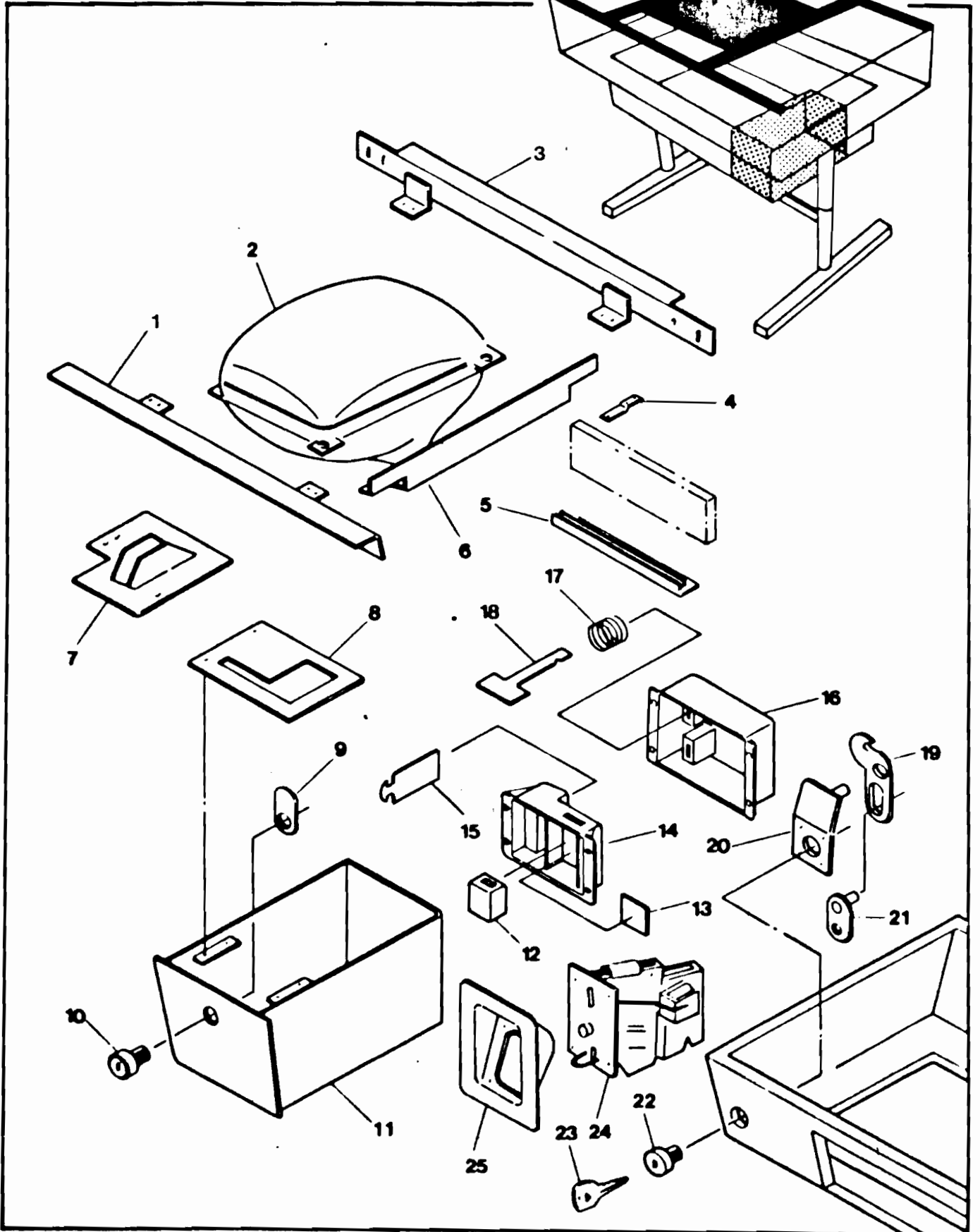
CONTROL PANEL ASS'Y

SEE PAGES 21, 22



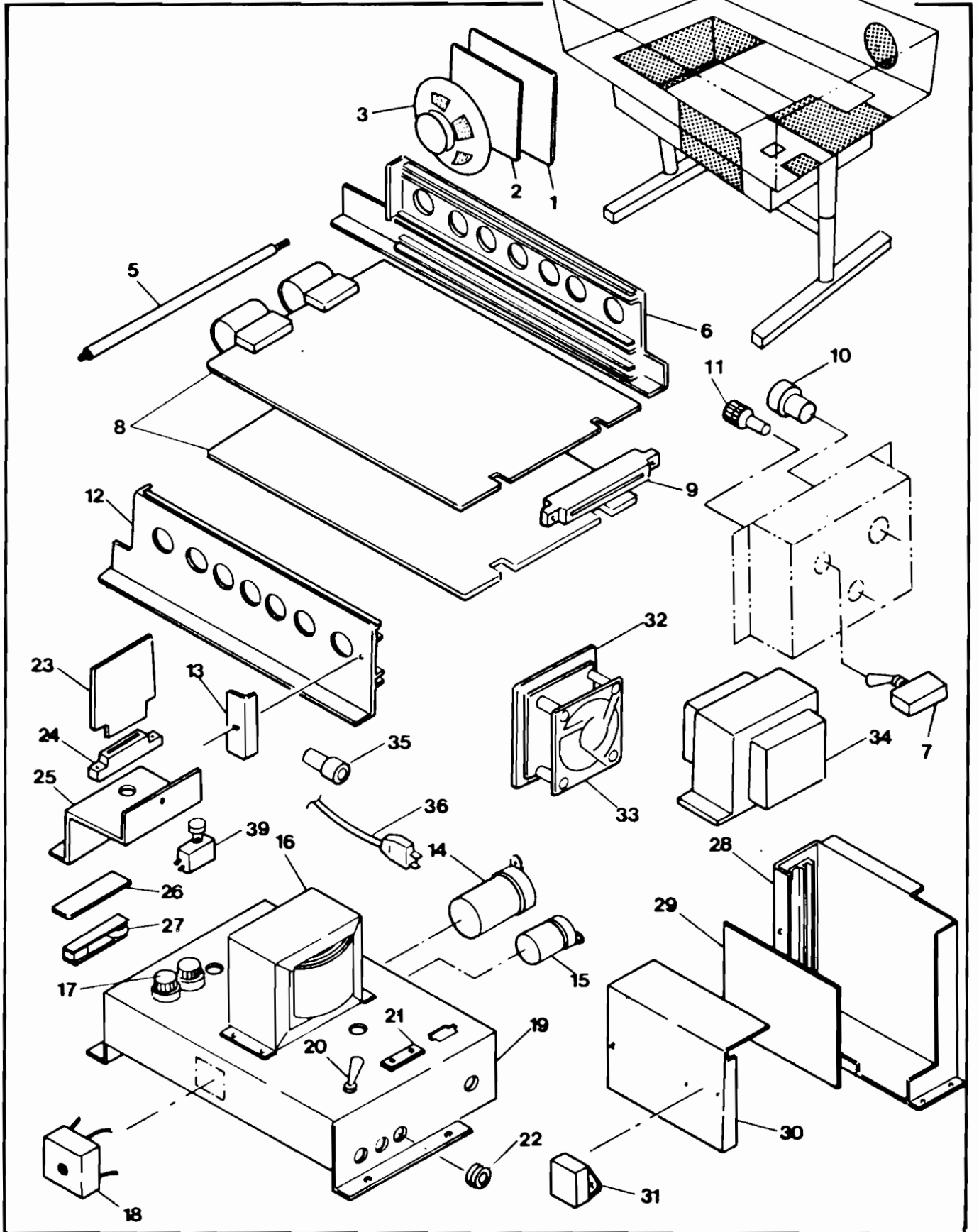
VIDEO AND CABINET ASS'Y

SEE PAGE 22



PRINTED BOARD AND REGULATOR ASS'Y

SEE PAGE 23



CABINET ASS'Y

Item	Part No.	Description
1	CV090003	Table Top Glass
2	AA019549	Video Mask
3	CV010002	Top Board
4	AA019545	Glass Bumper
5	AA013593	Corner Bracket
6	AA013605	Lock Bracket
7	AA013606	Hook
8	PR070010	Instruction Card ENG.
9	AA029522	Coin Sticker ENG.
10	TW060001	Hing Ass'y
11	AA016553	Hing Ass'y
12	CV010006	Table Box
13	CV030024	Bottom Box
14	AA016556	Table Leg
15	CV090021	Color Plate

CONTROL PANEL ASS'Y

Item	Part No.	Description
1	AA052511	Switch VAQ-4R
2	TE030008	Switch Plate
3	AA019535	Push Button
4	WT020001	Shaft
5	WT030004	Base Bracket
6	WT030005	M S Mounting Bracket
7	AA019504	Insulator Type-V
8	AA052532	Micro Switch AH71555
9	WT030015	Control Board Bracket (B)
10	WT030007	Washer
11	WT050001	Plate Spring
12	BP030002	Push Switch Bracket
13	AA019504	Insulator Type-V
14	AA052531	Micro Switch VL-11L
15	TW030014	Control Board Bracket (A)
16	TV010002	Control Board (B)
17	TV010001	Control Board (A)

18	WT090002	Mask Plate
19	CV090011	Spacer
20	AA019552	Control Panel
21	PR070016	Control Plate (1P) ENG.
22	CV020002	Lever
23	PR070017	Control Plate (2P) ENG.
24	AA019534	Push Button Housing Red
25	BP050001	Spring (A)
26	AA019533	Push Button Red

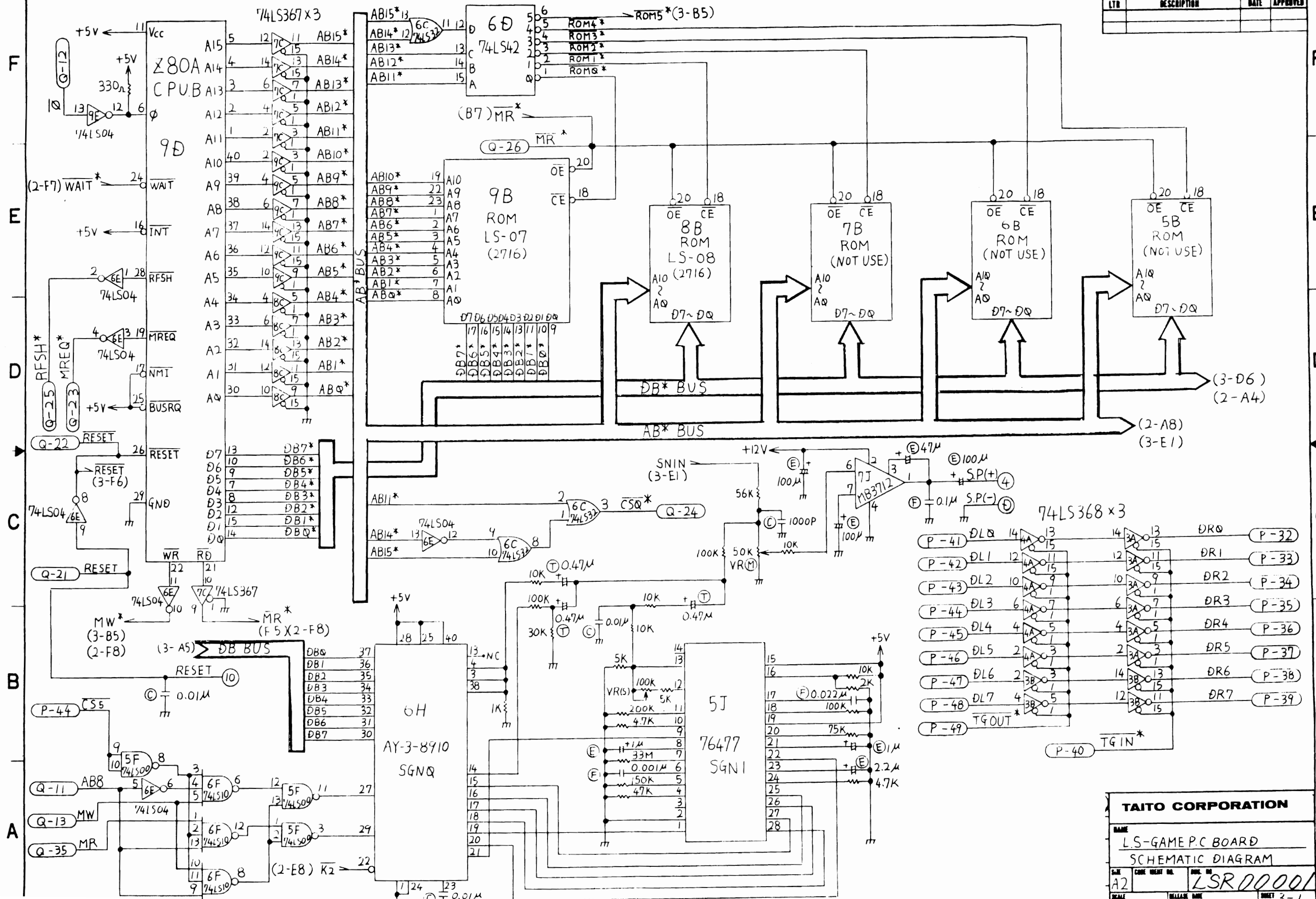
VIDEO AND CABINET ASS'Y

Item	Part No.	Description
1	CV030026	Support Bracket (C)
2	AAM10103	Video 14 inch clolr
3	CV030027	Support Bracket (D)
4	CV030028	Video Circuit Board Support
5	TV090009	Guide Rail
6	CV030025	Video Bracket
7	AA013520	Coin Chute (C)
8	CV030003	Guide Plate
9	AA013511	Lock Plate
10	AA016501	Lock & Key
11	CV030002	Cash Box
12	AA051717	Counter ME-5
13	AA018558	Packing
14	AA019559	Counter Box
15	AA013619	Contact Plate (B)
16	AA019558	Contact Plate Guide
17	WT050002	Spring
18	AA013618	Contact Plate (A)
19	AA013604	Lock Lever
20	AA013603	Lock Plate
21	AA013602	Lock Lever Pin
22	AA016559	Service Lock No.7900
23	AA016560	Service Key No.7900
24		Rejector
25	AA019551	Coin Entry Cover

PRINTED BOARD AND REGULATOR ASS'Y

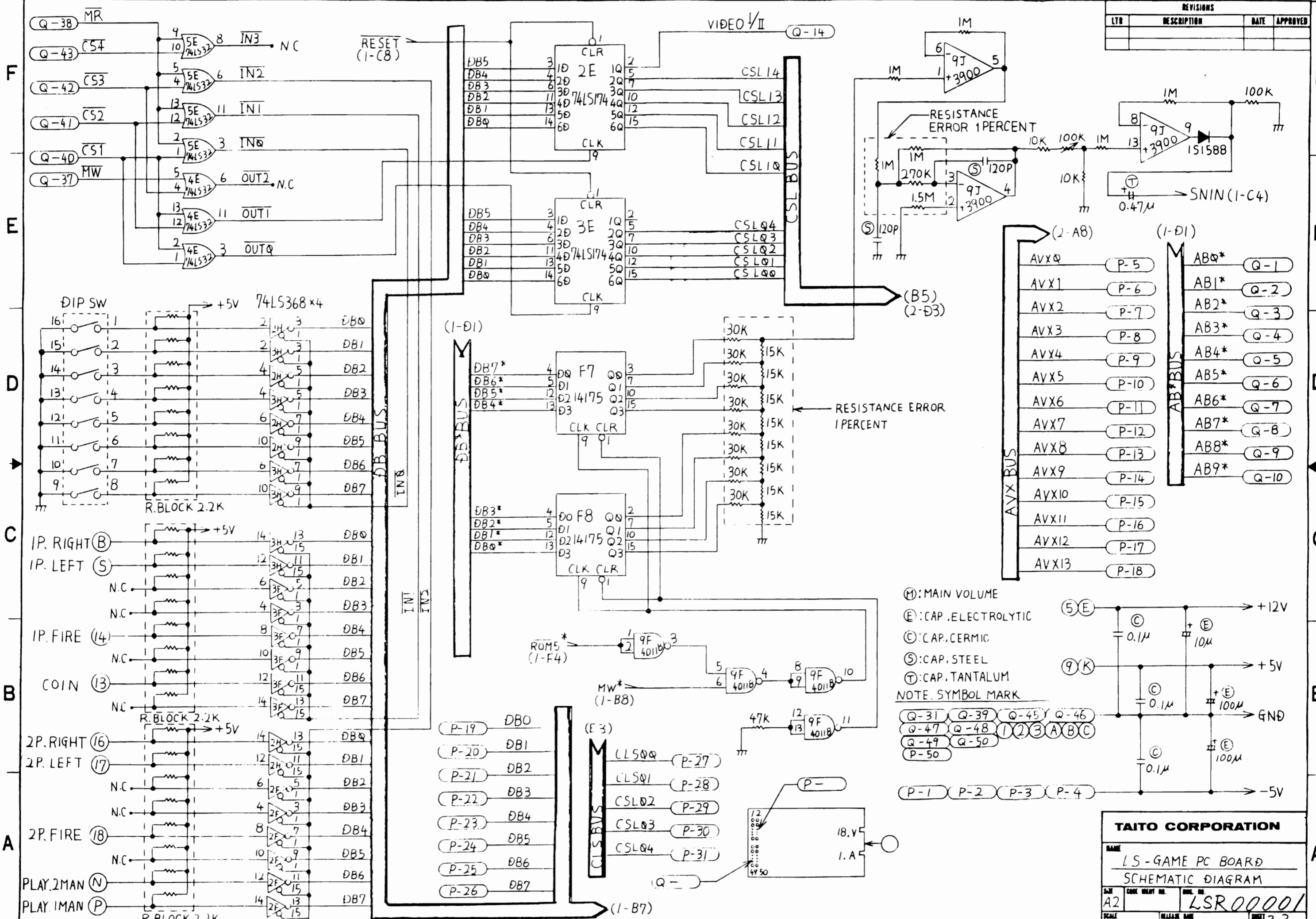
Item	Part No.	Description
1	WN030015	Punching Metal
2	WN090007	Net
3	AAT71001	Speaker 8 OHM 5W
4		
5	TU020001	Shaft
6	AA019547	P.C Board Guide (A)
7	AA052501	Toggle Switch S-301
8	LSK00006	Main PC Board Ass'y
9	AA055949	AMPLEAF Connector 18P
10	AA055784	Fuse Holder S-N2056
11	AA056508	Earth Terminal T-375
12	WT090008	P.C Board Guide (B)
13	CV030022	Stop Bracket
14	AAT41175	Capacitor 35LASN 4700
15	AAT41172	Capacitor 35LASN 1000
16	AA057575	Transformer
17	AA055700	Fuse Holder F4000
18	AAT14029	Rectifier S4VB
19	AA013610	Transformer Mounting Box
20	AA052535	Toggle Switch S-2A
21	AA055788	AC Socket Box-Type
22	AA018506	Grommet NG-79-E
23	AAM50011	Counter Drive P.C Board Ass'y
24	AA055720	Print Connector 10P
25	AA013607	Connector & Switch Bracket
26	TV090010	Insulator
27	AA068717	Tilt Switch
28	AA013613	Shield Box
29	AAM60009	Switching Regulator Ass'y
30	AA013614	Shield Cover
31	AAT61017	Noise Filter ZMB2206-02
32	AA018555	Gasket
33	AA058581	Fan WEJ-55B4
34	AA057582	Transformer
35	AA069568	Molde Cord Bush
36	AA062508	AC Cord

REVISIONS			
LT#	DESCRIPTION	DATE	APPROVED

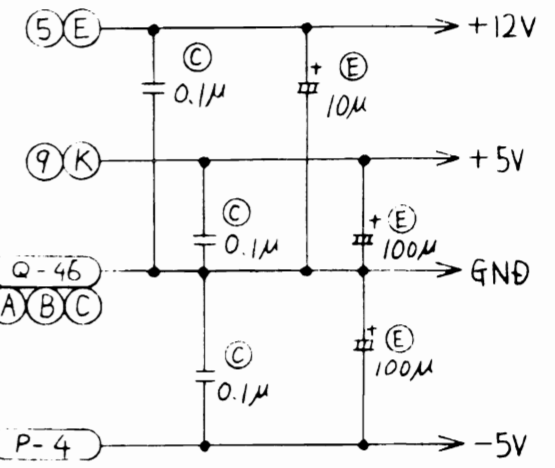


TAITO CORPORATION			
NAME	LS-GAME P.C. BOARD		
	SCHEMATIC DIAGRAM		
DATE	CODE	REV. NO.	
A2		LSR00001	
SCALE	WELLER NAME	INSET	3-1

REVISIONS			
LT#	DESCRIPTION	DATE	APPROVED



- (M): MAIN VOLUME
- (E): CAP. ELECTROLYTIC
- (C): CAP. CERMIC
- (S): CAP. STEEL
- (T): CAP. TANTALUM
- NOTE: SYMBOL MARK

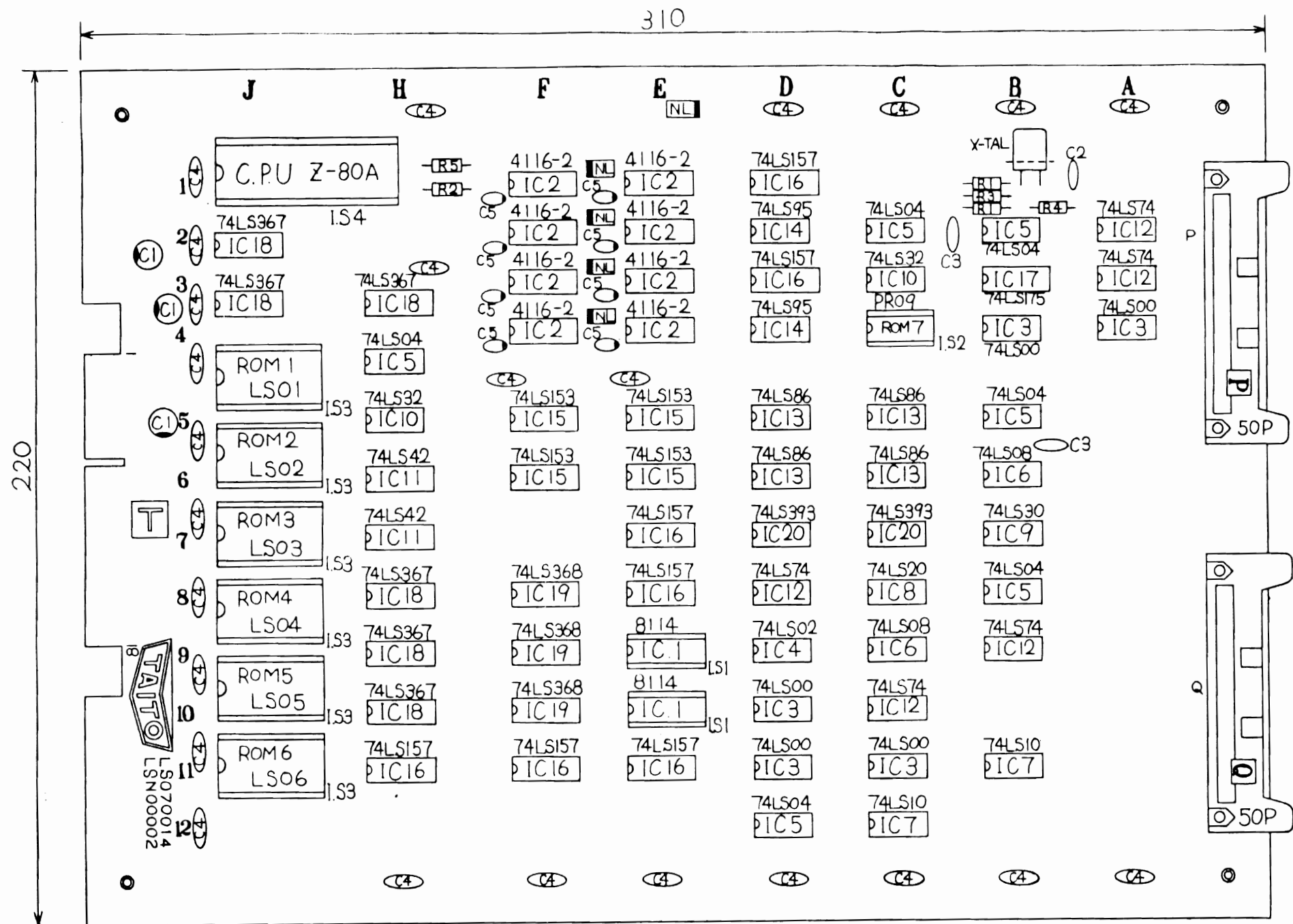


- Q-31 Q-39 Q-45 Q-46
- Q-47 Q-48 1 2 3 A B C
- Q-49 Q-50
- P-50

- P-1 P-2 P-3 P-4

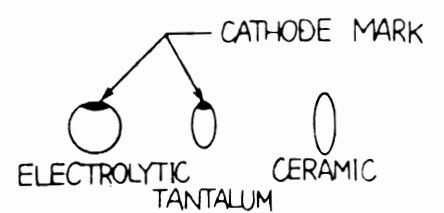
TAITO CORPORATION			
NAME: LS-GAME PC BOARD			
SCHEMATIC DIAGRAM			
DATE: A2	CODE SHEET NO.:	DRW. NO.:	LSR00001
SCALE:	RELEASE DATE:	SHEET 3-3	

LT#	DESCRIPTION	DATE	APPROVED

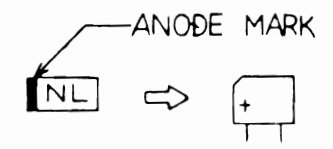


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NOTE.1 CAP.



NOTE.2 NOISE LIMIT

AS TO IC 74LS30, 74LS32, 74LS367, LS-TYPE IC'S ARE USED, BUT THEY CAN BE REPLACED WITH THE STANDARD-TYPE IC'S.

NOTE.3 IC 74LS30, 74LS32, 74LS367

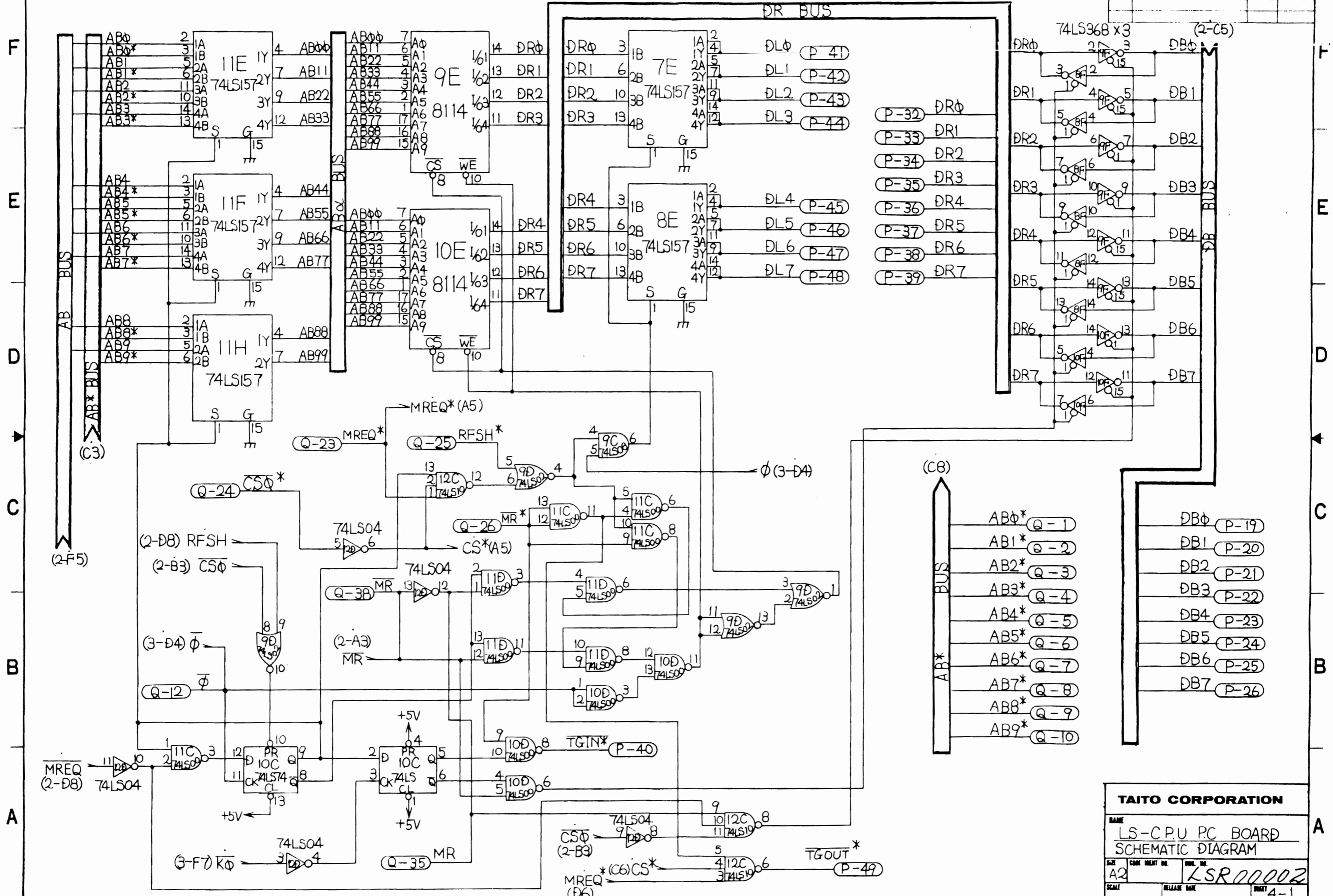
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ENGLISH	9,10J	LS05	LS090005
SPANISH	9,10J	LS11	LS090012

* MARK ROM CONVERSION FOR FOREIGN LANGUAGES

LT#	DESCRIPTION	DATE	APPROVED
76			
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49	NL AAT6 019	NOISE LIMIT	CS90E-1A-3R300-858 5
48	R5 5 789	RES. CARBON, 10KOHM 1/4W 5%	1
47	R4 5 777	RES. CARBON, 10KOHM 1/4W 5%	1
46	R3 5 759	RES. CARBON, 10KOHM 1/4W 5%	1
45	R2 5 753	RES. CARBON, 10KOHM 1/4W 5%	1
44	R1 5 749	RES. CARBON, 220OHM 1/4W 5%	2
43	C5 4 436	CAP. TANTALUM, 55G35-1F	8
42	C4 4 672	CAP. CERAMIC, 104Z 50V	25
41	C3 4 334	CAP. CERAMIC, 470PF 50V	2
40	C2 4 305	CAP. CERAMIC, 30PF 50V	1
39	C1 AAT4 1041	CAP. ELECTROLYTIC, 35VB-10	3
38	ROM7 PRO90009	P-ROM(052) PRO9	1
37	ROM6 LS090006	LS06 (2716)	1
36	ROM5 90005	LS05	1
35	ROM4 90004	LS04	1
34	ROM3 90003	LS03	1
33	ROM2 90002	LS02	1
32	ROM1 LS090001	P-ROM(2716) LS01	1
31	CPU AAT34008	C.P.U. Z-80A	1
30	IC20 33220	LS IC 74LS373	2
29	IC19 33204	LS IC 74LS368	3
28	IC18 33203	LS IC 74LS367 (or 74367)	6
27	IC17 33128	LS IC 74LS175	1
26	IC16 33112	(FLUTISU) 74LS157	7
25	IC15 33108	LS IC 74LS153	4
24	IC14 33062	LS IC 74LS95	2
23	IC13 33062	LS IC 74LS86	4
22	IC12 33051	LS IC 74LS74	5
21	IC11 33032	LS IC 74LS42	2
20	IC10 33027	LS IC 74LS32 (or 7432)	2
19	IC9 33026	LS IC 74LS30 (or 7430)	1
18	IC8 33019	LS IC 74LS20	1
17	IC7 33011	LS IC 74LS10	2
16	IC6 33009	LS IC 74LS08	2
15	IC5 33005	LS IC 74LS04	6
14	IC4 33003	LS IC 74LS02	6
13	IC3 33001	LS IC 74LS00	5
12	IC2 32168	DYNAMIC RAM M5416-20	8
11	IC1 AAT32156	STATIC RAM, M88114N	2
10	X-TAL AAO69599	X-TAL 10.000MHz	1
9	IS4 55812	IC SOCKET 40P	1
8	IS3 55787	IC SOCKET 24P	6
7	IS2 55786	IC SOCKET 16P	1
6	IS1 55703	IC SOCKET 18P	2
5	50P 55154	ANGLE PIN HEADER, PS-50P	2
4	Q 7656	CONNECTOR STICKER Q	1
3	P AAO7653	CONNECTOR STICKER P	1
2			
1	LS070014	LS-CPU PC BOARD	1

TAITO CORPORATION
 LS-CPU PC BOARD ASSY
 A1 LS070007

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED



- (P-32) DR0
- (P-33) DR1
- (P-34) DR2
- (P-35) DR3
- (P-36) DR4
- (P-37) DR5
- (P-38) DR6
- (P-39) DR7

- AB0* Q-1
- AB1* Q-2
- AB2* Q-3
- AB3* Q-4
- AB4* Q-5
- AB5* Q-6
- AB6* Q-7
- AB7* Q-8
- AB8* Q-9
- AB9* Q-10

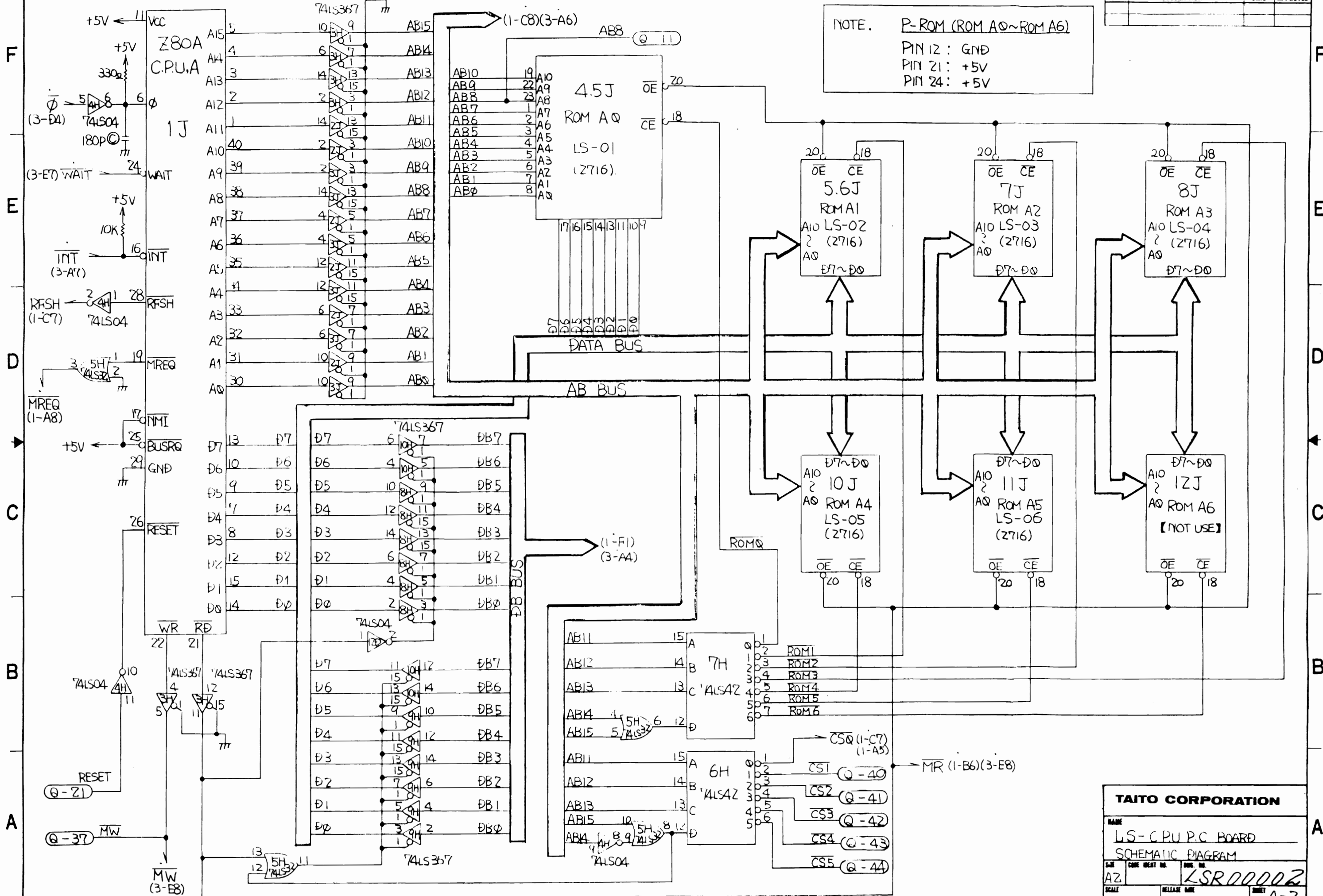
- DB0 P-19
- DB1 P-20
- DB2 P-21
- DB3 P-22
- DB4 P-23
- DB5 P-24
- DB6 P-25
- DB7 P-26

TAITO CORPORATION

NAME: LS-CPU PC BOARD
 SCHEMATIC DIAGRAM

SCALE: A2
 CODE MENT NO.: LSR00002
 SHEET: 4-1

REVISIONS			
LT#	DESCRIPTION	DATE	APPROVED



NOTE. P-ROM (ROM A0~ROM A6)
 PIN 12: GND
 PIN 21: +5V
 PIN 24: +5V

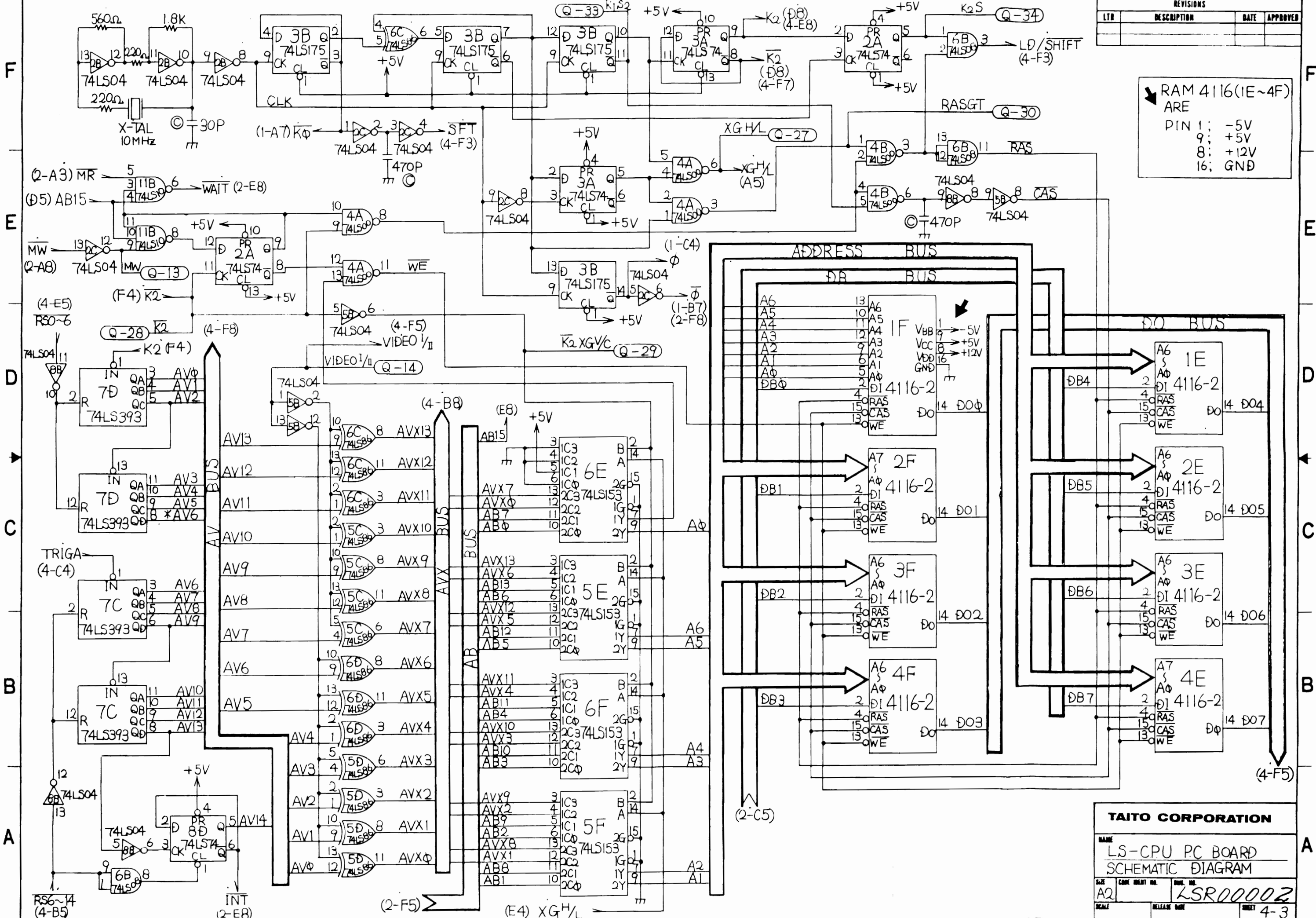
TAITO CORPORATION

NAME: LS-CPU P.C BOARD
 SCHEMATIC DIAGRAM

DATE: AZ
 SCALE: 1:1
 RELEASE DATE: LSR00002
 SHEET: 4-2

REVISIONS			
LT#	DESCRIPTION	DATE	APPROVED

RAM 4116(1E~4F)
ARE
PIN 1: -5V
9: +5V
8: +12V
16: GND



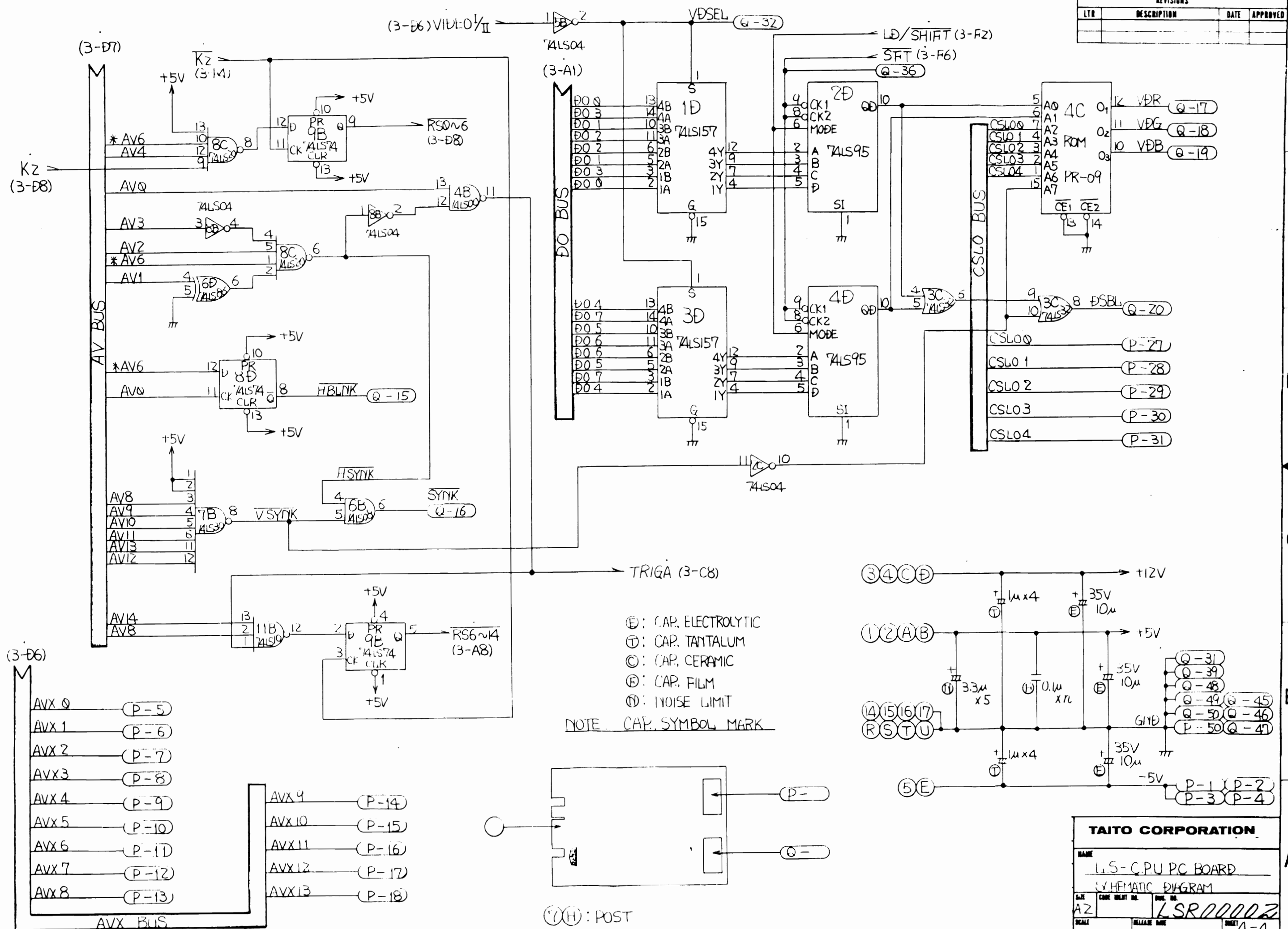
TAITO CORPORATION

NAME: LS-CPU PC BOARD
SCHEMATIC DIAGRAM

SIZE: A2
CODE IDENT. NO.: LSR000002
SCALE: 1:1
RELEASE DATE: 1982
SHEET: 4-3

REVISIONS			
LT#	DESCRIPTION	DATE	APPROVED

F
E
D
C
B
A



(3-D7)

(3-D6) VIBL=0/II

VSEL (Q-32)

LD/SHIFT (3-F2)

SFT (3-F6) (Q-36)

+5V (3-14)

*AV6 AV4

AV0

AV3

*AV6 AV2

AV1

*AV6 AV0

AV8

AV9

AV10

AV11

AV13

AV12

AV14

AV8

AVX 0

AVX 1

AVX 2

AVX 3

AVX 4

AVX 5

AVX 6

AVX 7

AVX 8

AVX 9

AVX 10

AVX 11

AVX 12

AVX 13

AVX 14

AVX 15

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AVX 243

AVX 244

AVX 245

AVX 246

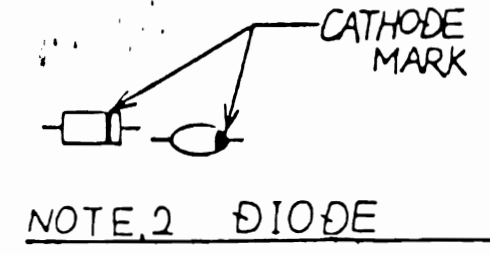
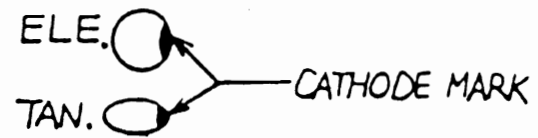
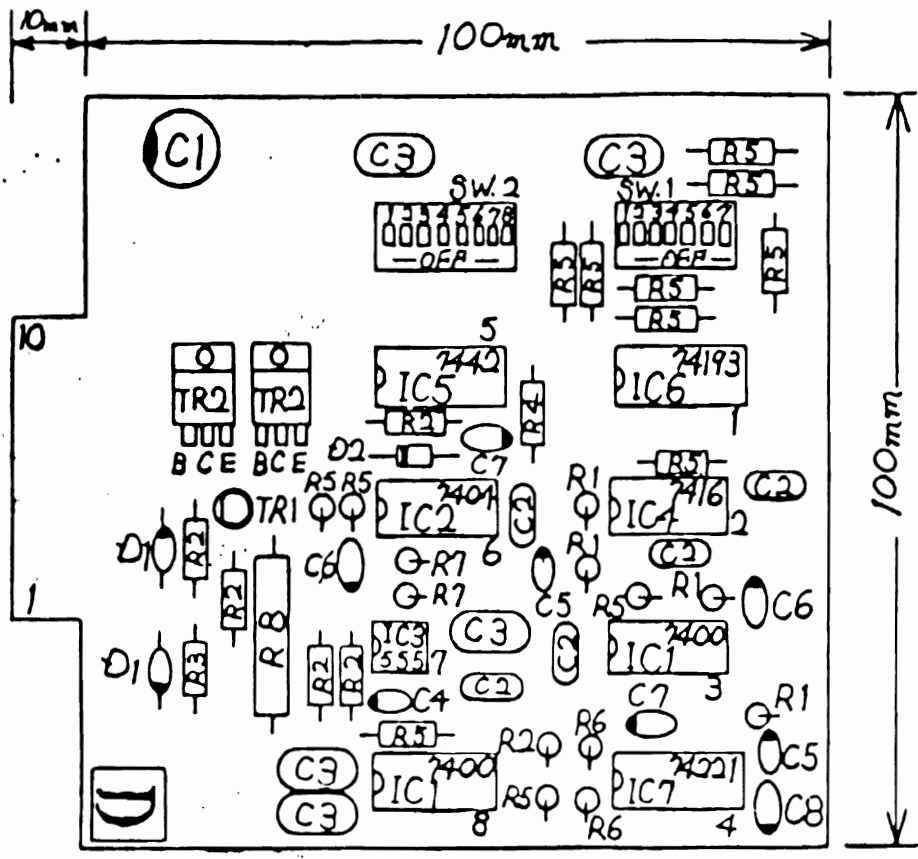
AVX 247

AVX 248

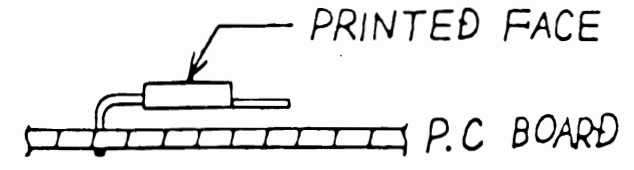
AVX 249

AVX 250

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED



NOTE.3 TRANSISTOR(2SC458)



NOTE.4 TRANSISTOR(2SC1061)

NOTE.5 THE RELATION BETWEEN COIN AND CREDIT

	SW1							SW2							
	1	2	3	4	5	6	7	1	2	3	4	5	6	7	8
1 COIN 1 PLAY	ON	ON	ON	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
2 COIN 1 PLAY	∞	∞	∞	∞	∞	∞	∞	OFF	ON	OFF	∞	∞	∞	∞	∞
3 COIN 1 PLAY	∞	∞	∞	∞	∞	∞	∞	∞	OFF	ON	∞	∞	∞	∞	∞
4 COIN 1 PLAY	∞	∞	∞	∞	∞	∞	∞	∞	OFF	OFF	ON	∞	∞	∞	∞
1 COIN 2 PLAY	ON	OFF	OFF	OFF	OFF	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON
2 COIN 3 PLAY	OFF	ON	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞
1 COIN 4 PLAY	ON	ON	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞

ITEM NO	SYM	PART NO IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	QTY
31	R8	AAT55033	WINDING RESISTOR, 60HM 2W±10%	1
30	R7	51831	RES. CARBON, 560KOHM 1/4W±5%	2
29	R6	51803	39K	2
28	R5	51789	10K	13
27	R4	51781	4.7K	1
26	R3	51777	3.3K	1
25	R2	51765	1K	6
24	R1	51741	RES. CARBON, 100OHM 1/4W±5%	4
23	C8	41438	CAP. TANTALUM, SSG35-3R3F	1
22	C7	41421	SSG16-4R7F	2
21	C6	41419	SSG16-2R2F	2
20	C5	41418	SSG16-1F	2
19	C4	41414	CAP. TANTALUM, SSG16-0R22F	1
18	C3	41244	CAP. FILM TDY-1H-104	5
17	C2	41238	CAP. FILM TDY-1H-103	5
16	C1	41021	CAP. ELECTROLYTIC, 16VB47μ	1
15	IC.7	32077	TTL IC 74221	1
14	IC.6	32044	74193	1
13	IC.5	32039	7442	1
12	IC.4	32033	7416	1
11	IC.3	32019	NE555V	1
10	IC.2	32003	7404	1
9	IC.1	32001	TTL IC 7400	2
8	D2	12025	DIODE 1S1588	1
7	D1	12002	DIODE VO3C	2
6	TR.2	V 11030	TRANSISTOR 2SC1061-B	2
5	TR.1	AAT11005	TRANSISTOR 2SC458-C	1
4	SW.2	AAO52566	DIP SWITCH DSS-8	1
3	SW.1	∞ 52560	DIP SWITCH DSS-7	1
2	D	∞ 17623	CONNECTOR STICKER D	1
1		AAO17766D	CREDIT P.C BOARD	1

PARTS LIST

TAITO CORPORATION

NAME
CREDIT P.C BOARD ASSY.

SIZE A3
SCALE 1/1

CODE IDENT. NO.
Dwg. NO. AAM50011-D

RELEASE DATE
SHEET

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED

