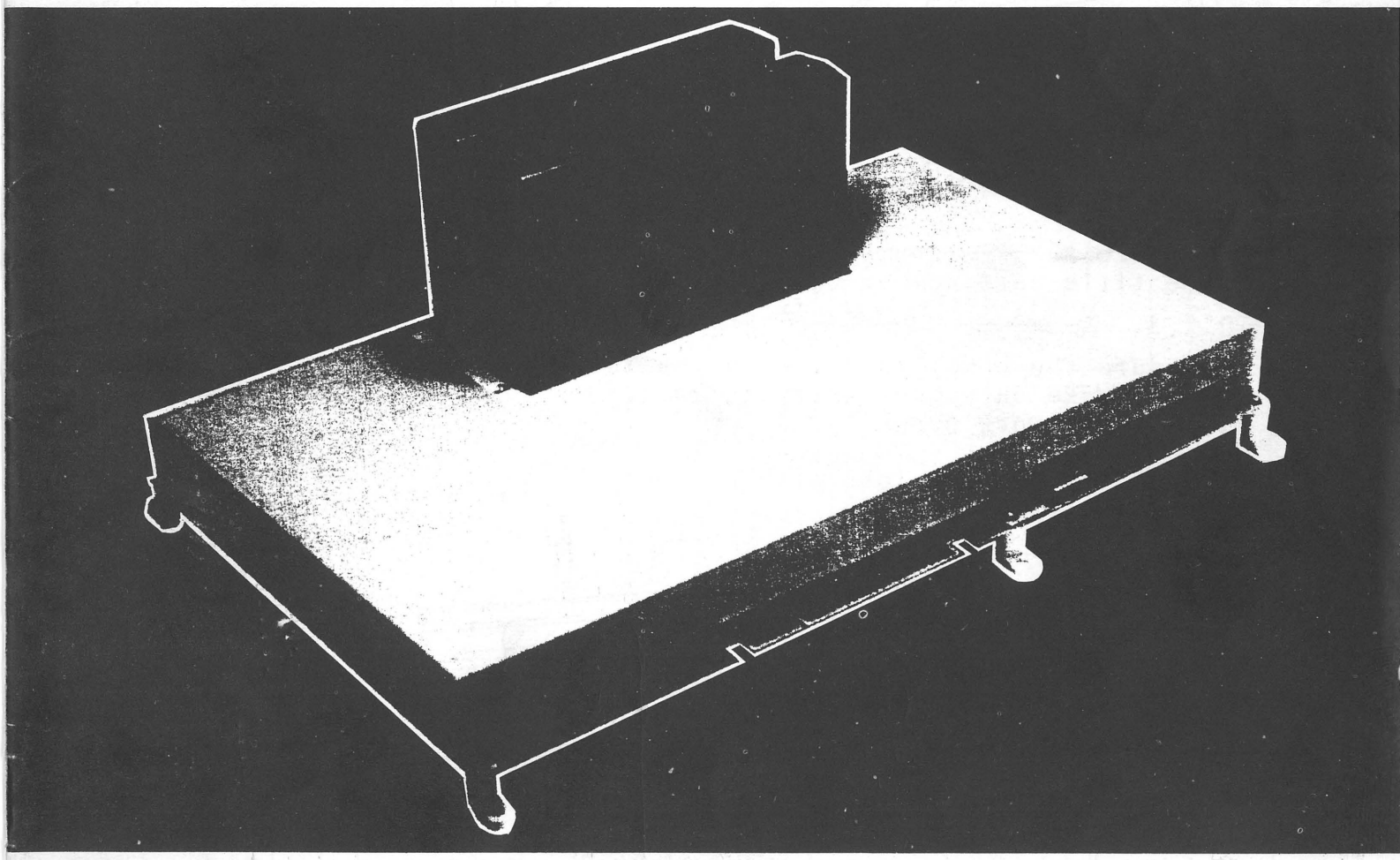
MVS®

MULTI VIDEO SYSTEM

SERVICE

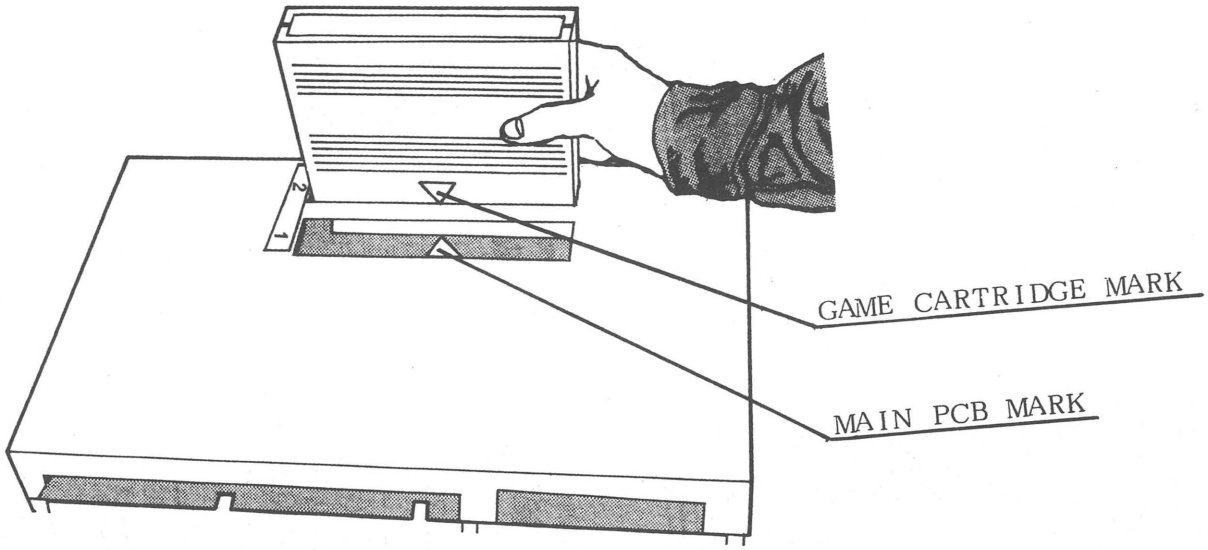
MANUAL



SNK

○ WARNING

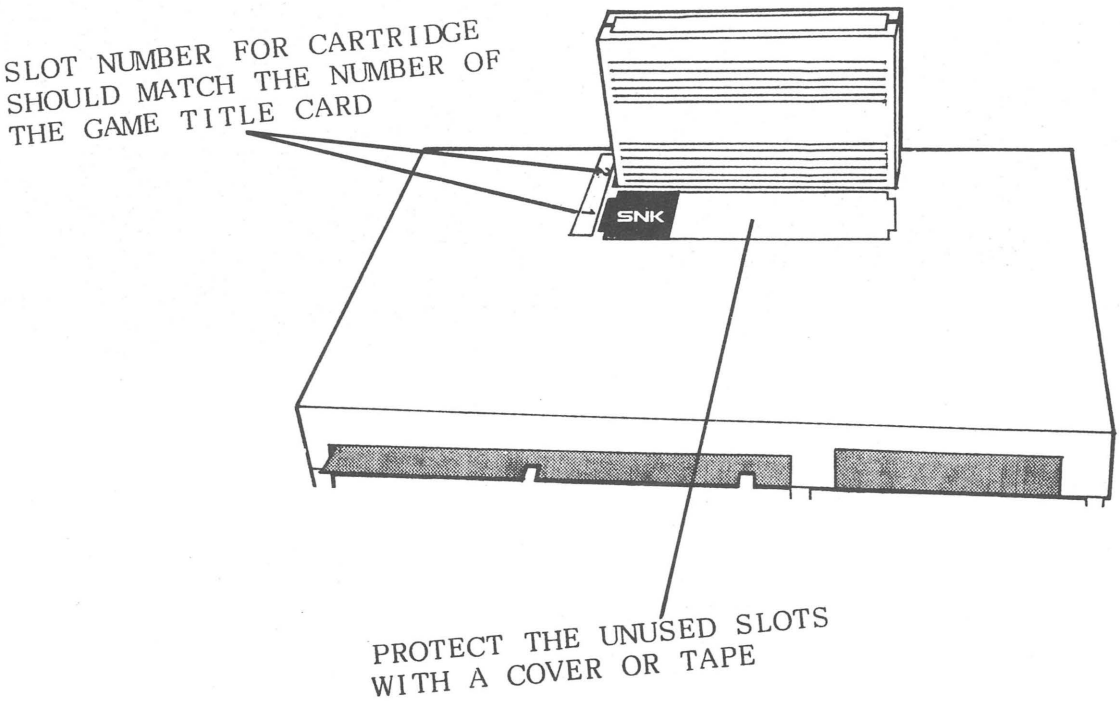
1) Make sure the game cartridge is installed with the markings matching the main board.



2) Make sure the slot number you install the cartridge in matches the game title card number on the EL panel.

3) Make sure the power is off when you insert or remove the cartridge. Make sure the cartridge is firmly inserted in the slot or it will not work properly.

4) Protect the unused slots with a cover or tape.

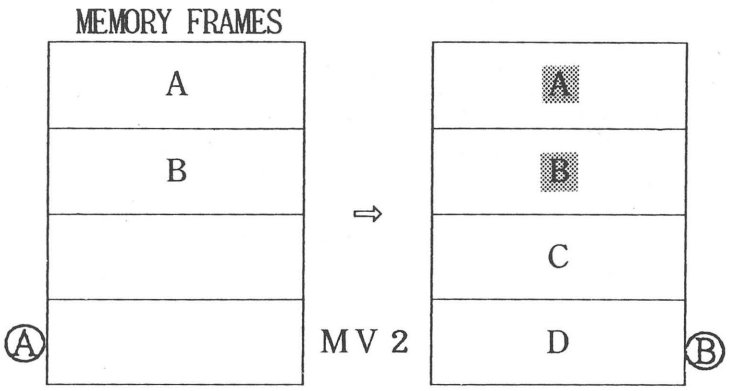


5) Do not put any electric conductive materials on or in the slots.

6) Do not insert any other cartridge than the MVS cartridge with the 240 pin connector.
The NEO GEO Rental System cartridge will not fit on this connector!

7) MVS preserves the income data of max 8 games even the power is off or the game cartridges are removed from PCB.

For example: 2 cartridges are being used, A,B, on the MVS. If new game titles C & D are used to replace A & B, the date for A & B will remain.



☞ The income data for A & B will remain even if they are pulled out of the cabinet. Even if you move C & D to slot where A & B was, the income data for A & B will still remain.

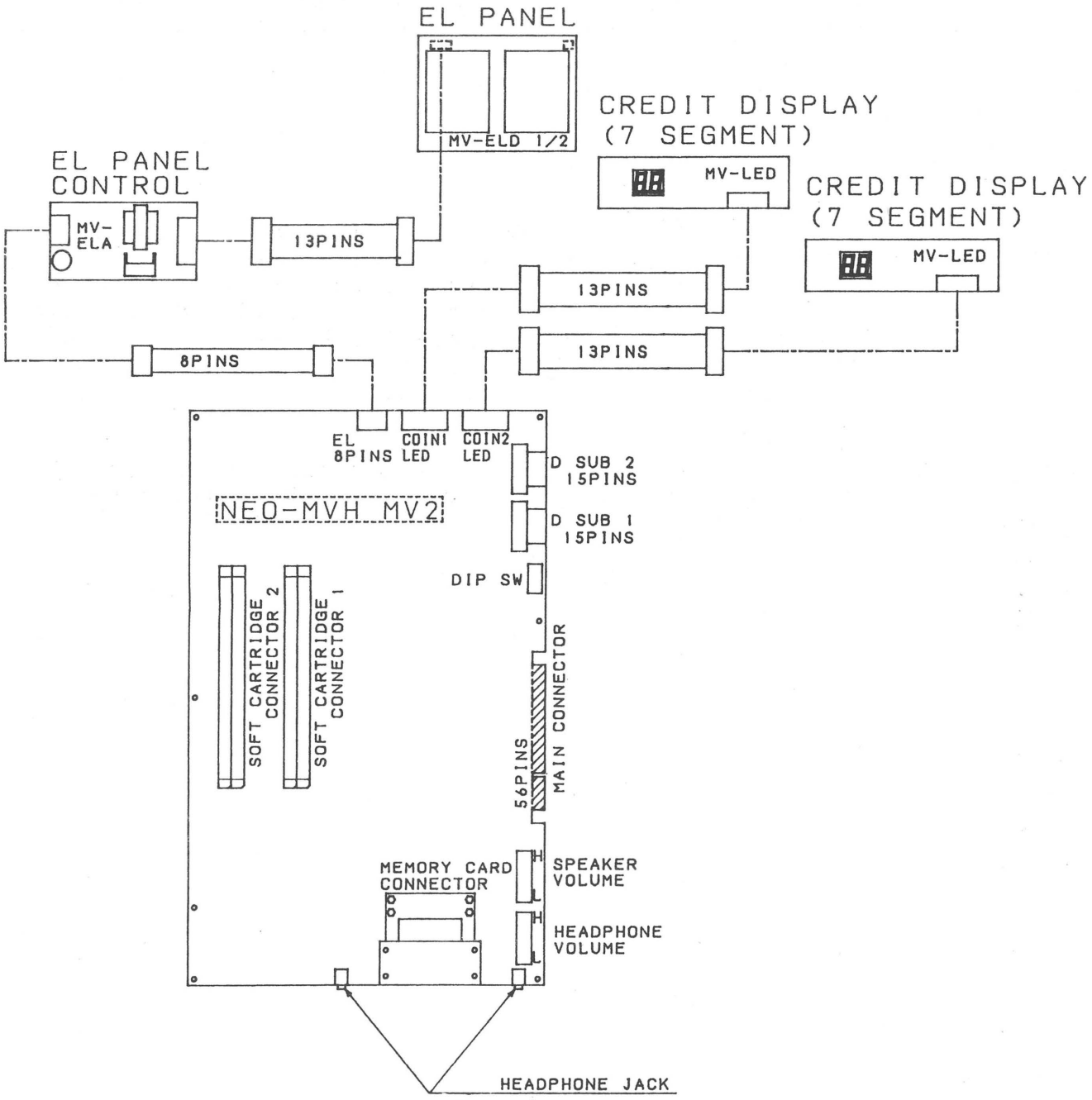
Since the MVS can only retain data for up to 8 titles, when you install the next game, the oldest game's data will be deleted to input the data for newest game.

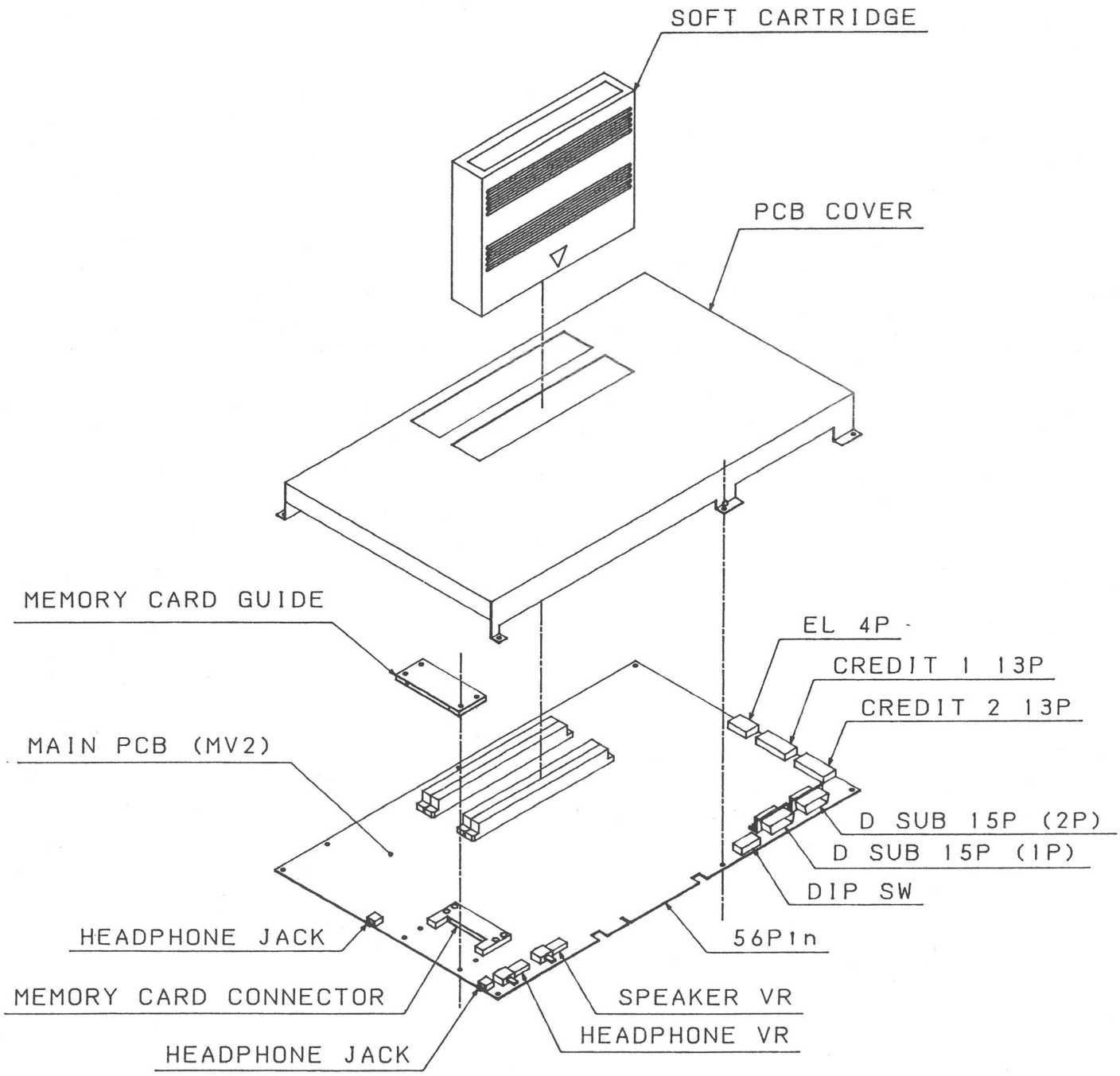
○P. C. B. COMPONENT

① MVS consists of 4 different P.C.Bs.

NEO-MVH MV2····Main programming, characters
Switching game cartridge

② Each board connects as follows:




SOFT CARTRIDGE
PCB COVER
MEMORY CARD GUIDE
EL 4P
CREDIT 1 13P
CREDIT 2 13P
MAIN PCB (MV2)
D SUB 15P (2P)
D SUB 15P (1P)
DIP SW
HEADPHONE JACK
56Pin
MEMORY CARD CONNECTOR
SPEAKER VR
HEADPHONE VR
HEADPHONE JACK

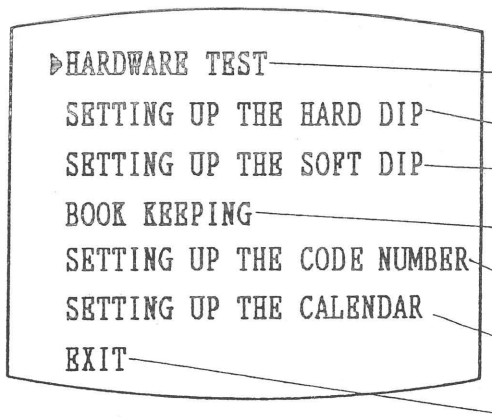
○MODE SETTING

The MVS (Multi Video System) enables the dip settings to appear on the monitor instead of the dipswitch settings on conventional pcbs. It allows you to obtain collection information, game times, etc. The following are the directions on how to operate and choose settings:

How to operate: After turning the power on, press the test switch inside the cabinet.

☞ Move the cursor to your selection with the joystick and press "A"button.

MAIN MENU



; Cabinet switches, monitor adjustments, color tests, EL board tests, etc.

; Main pcb dip switch display.

; Coinage Settings, difficulty levels, etc. for each software titles.

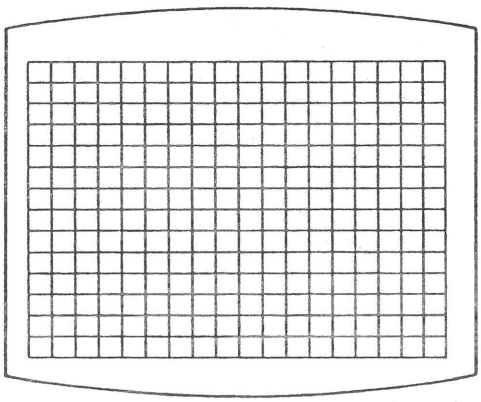
; Cabinet coins, cabinet plays, plays for each software title.

; Setting up the memory card & code number for collection purposes.

; Setting up the time & date on the cabinet.

; Return to the game screen after completion of soft dip settings.

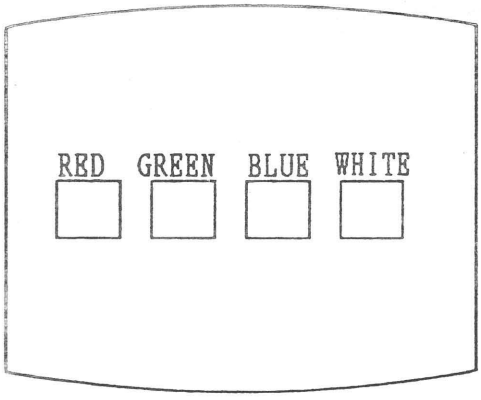
HARDWARE TEST



; Cross Hatch



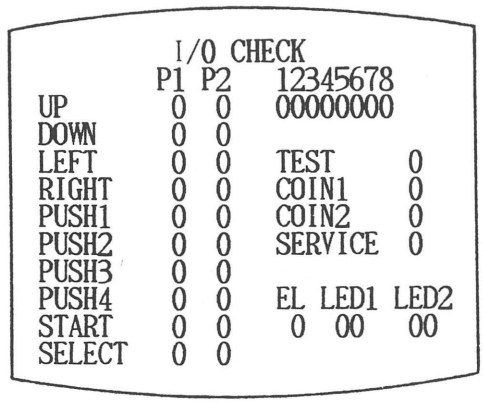
☞ Press the 1 player start button



☞ Use this screen to adjust the color on the monitor



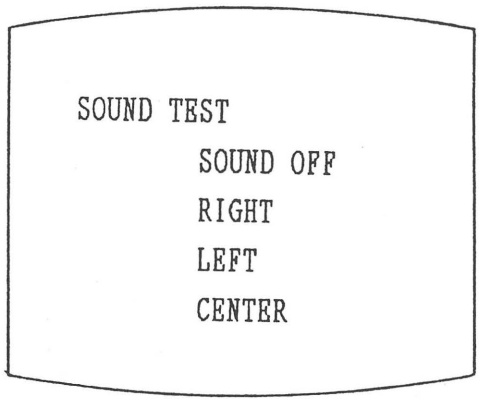
☞ Press the 1 player start button



☞ With the dipswitch "on" the number 1 appears on the screen. With the dipswitch "off" the number 0 appears on the screen.
☞ Check if the number for EL on the screen is the same as the EL panel illuminated on the board.
☞ Check if the number of LED 1 is the same as displayed on the LED on the control panel.

↓

☞ Press the 1 player start button

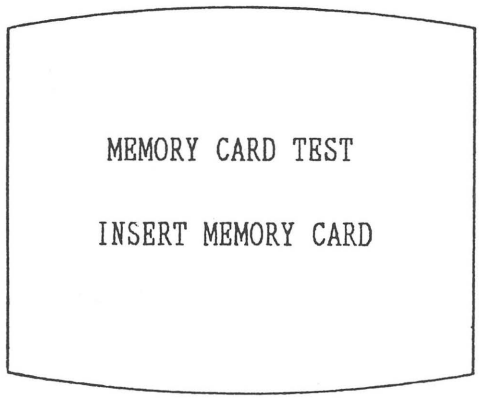


☞ The area in red on the monitor moves from "sound off" to "center" by moving the joystick up and down.

RIGHT	Sound comes out the right side speaker
LEFT	Sound comes out the left side speaker
CENTER	Sound comes out both speakers

↓

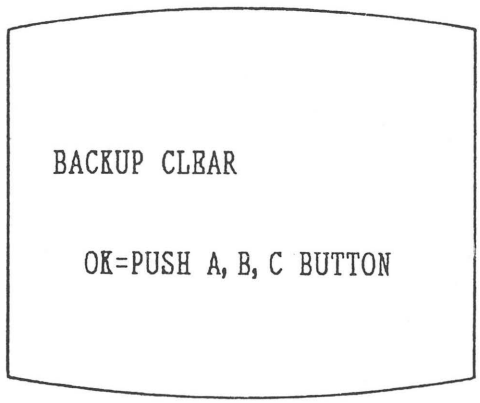
☞ Press the 1 player start button



☞ You can check if the memory card works properly by inserting it during this screen.
NOTE: Data that was already saved on the memory card will be erased.

↓

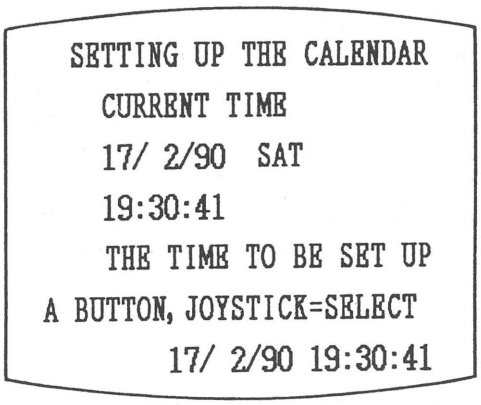
☞ Press the 1 player start button



☞ When you press the A, B, & C buttons simultaneously, you will clear the data.

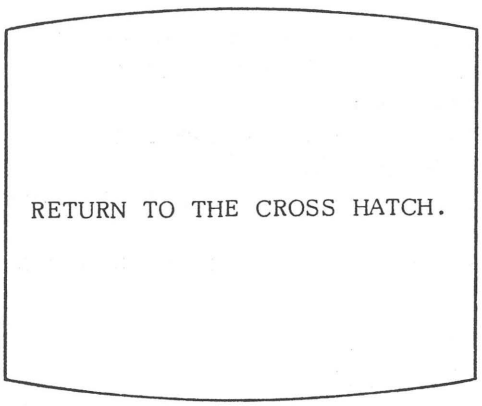
↓

☞ Press 1P button to start

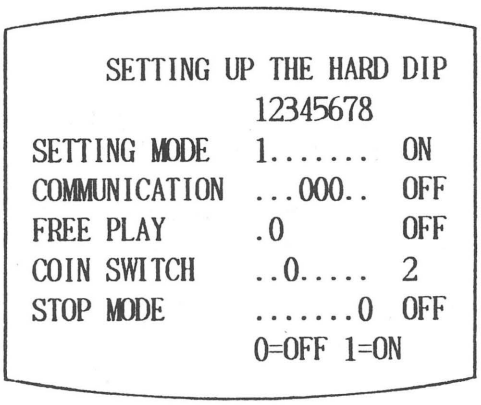


☞ Red number is changeable. Increase number with "A" button, decrease number with "B" button. Press "D" button when finished with setting.

☞ Press 1P button to start

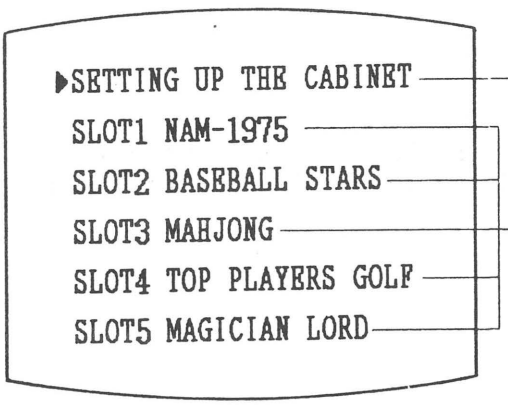


HARD DIP SETTING



☞ Shows present state of dipswitch.

SETTING UP THE SOFT DIP

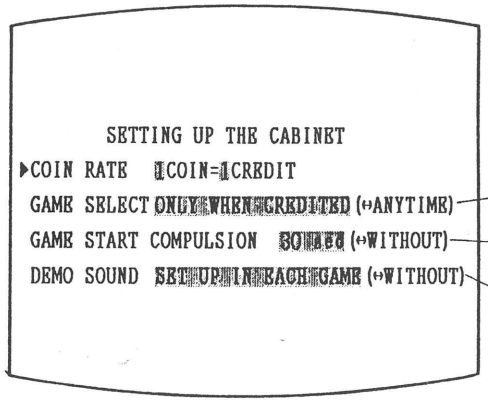


☞ Cabinet setting

; Each software setting

SETTING UP THE CABINET

☞ Move cursor to "cabinet setting" and press "A" button.



☞ Move the cursor by joystick and increase with "A" button, decrease with "B" button.

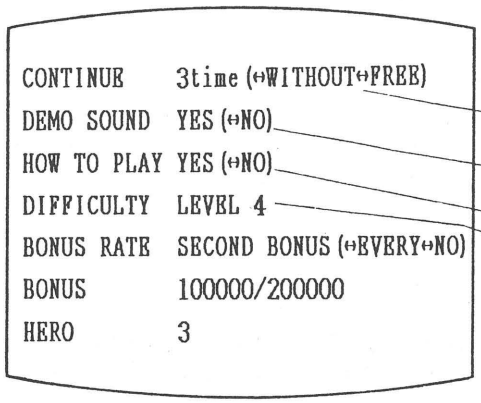
☞ On "free play", selection button works without credits. (Change with "A" button.)

☞ Setting of time limitation after inserting coin. (Change with "A", "B" button)

☞ When "without" appears, there is no sound for any of the games. (Change with "A" button)

In the case of NAM-1975
(In the case of each game)

☞ Return to previous menu with "C" button. Move cursor to the game you wish to set and press "A" button.



☞ Software dips are slightly different by game.

; Set number of continue plays.

☞ When there is no "demo sound" on cabinet setting, "with" will be ignored.

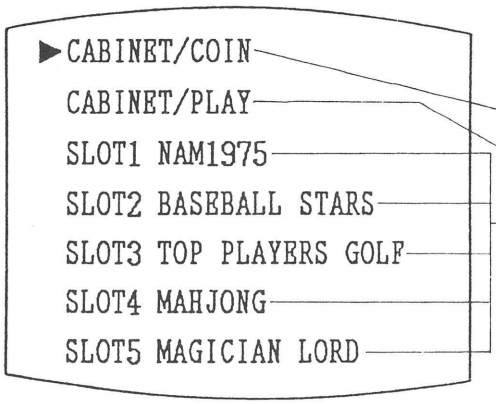
; With or without game play instructions

; when game starts.

Difficulty setting. The higher the number, the more difficult.

BOOK KEEPING

☞ Press "C" button once to return to "Soft dip menu setting". Press "C" button again to return to main menu.
Be sure to press "C" button after making game selection.



☞ Move the cursor to "Book Keeping" with joystick and press "A" button.

; Total coins of cabinet

; Total plays, number of continue plays for the cabinet

; Total plays, number of continue plays for each title

CABINET/COIN

☞ Move the cursor to cabinet/coin with joystick and press "A" button.

CABINET/COIN

	P1	P2	SERVICE
FEB/17	02244	0	25
FEB/16	04422	0	36
FEB/15	06633	0	47
FEB/14	08844	0	48
FEB/13	02399	0	29
FEB/12	05699	0	94

☞ Weekly income chart.

☞ Press "A" button

CABINET/COIN

	P1	P2	SERVICE
JAN	42244	0	25
FEB	44422	0	36
MAR	56633	0	47
APR	68844	0	48
MAY	72399	0	29
JUN	55699	9	94

Cabinet coins for the first 6 months of the year.

☞ Press "A" button

CABINET/COIN

	P1	P2	SERVICE
JUL	42244	0	25
AUG	44422	0	36
SEP	56633	0	47
OCT	68844	0	48
NOV	72399	0	29
DEC	55699	0	94

Cabinet coins for the second 6 months of the year.

☞ After pressing "C" button, move the cursor to "Cabinet Play" and press "A" button.

☞ Press "A" button

CABINET/PLAY

CABINET/PLAY

	PLAY	CONT.	AV. TIME
FEB/17	22	33	5:20
FEB/16	44	55	6:20
FEB/15	66	77	7:20
FEB/14	88	99	8:20
FEB/13	23	32	9:20
FEB/12	56	55	4:20
FEB/11	11	88	5:20

☞ Press "A" button

CABINET/PLAY

	PLAY	CONT.	AV. TIME
JAN	42244	33363	5:20
FEB	44422	35543	6:20
MAR	56633	37773	7:20
APR	68844	39983	8:20
MAY	72399	33232	9:20
JUN	55699	15519	4:20

↓

☞ Press "A" button

CABINET/PLAY

	PLAY	CONT.	AV. TIME
JUL	42244	33363	5:20
AUG	44422	35543	6:20
SEP	56633	37773	7:20
OCT	68844	39983	8:20
NOV	72399	33232	9:20
DEC	55699	15519	4:20

☞ Retrieve book keeping information for each software title the same way as "Cabinet Coin" & "Cabinet Play".

↓

SETTING UP THE CODE NUMBER

☞ After pressing the "C" button twice, return to the main menu.
Press "A" button after selection CODE NUMBER SETTING with the joystick.

CODE NUMBER SETTING

2408

D BUTTON:SET

CODE NUMBER WILL BE SET INTO MEMORY CARD WHEN INSERTED DURING THIS MODE.

☞ Increase numbers with the "A" button.
Decrease numbers with the "B" button.
Use the joystick to move left to change selected numbers.
Set Code Number Setting with the "D" button.

The total data of book keeping can be collected by these procedure.

○MULTI VIDEO INCOME TOTALIZATION SYSTEM (Book Keeping System)

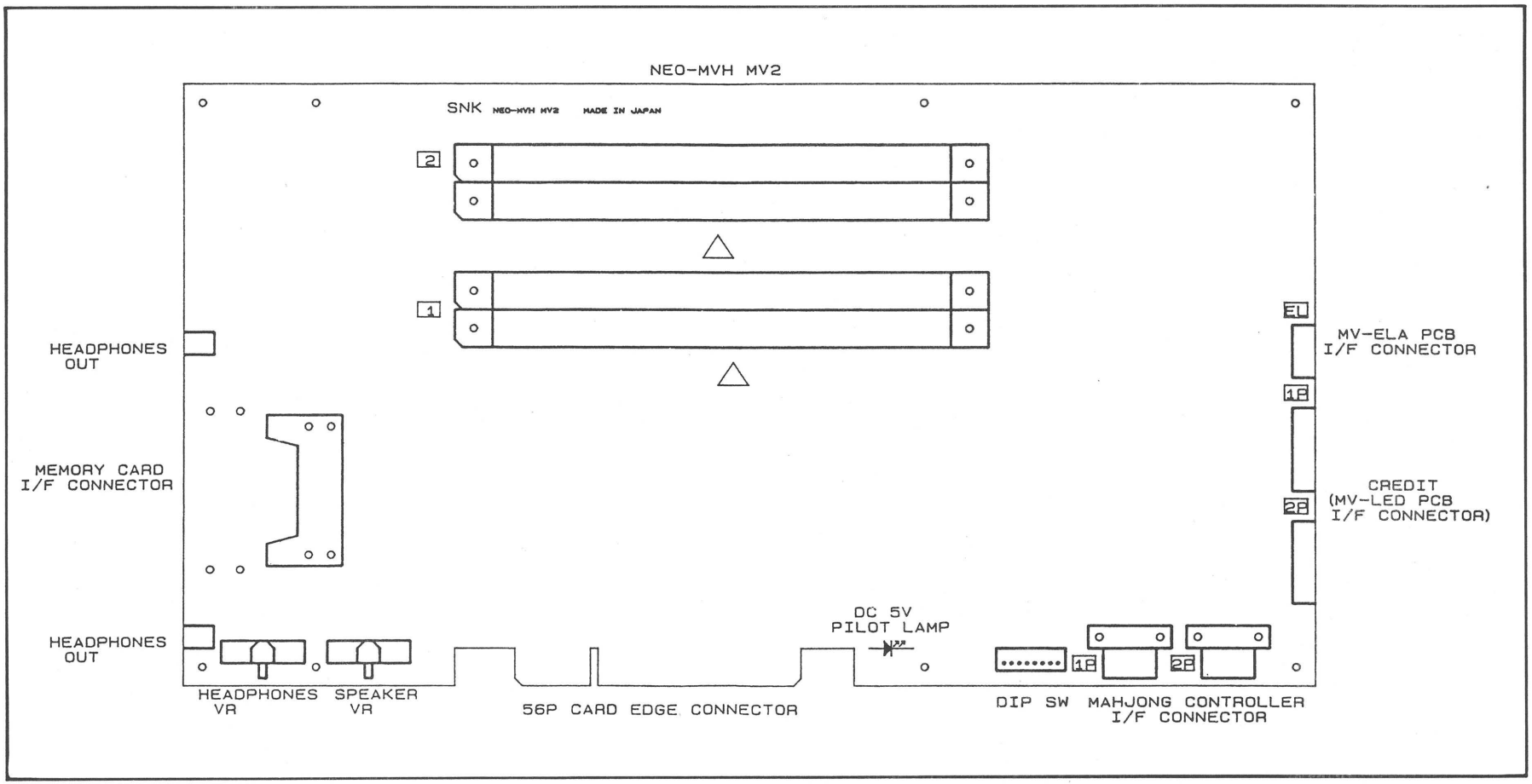
1) The Muti Video System (MVS) is equipped with back-up ram and calendar IC which allows the daily income data to be saved even when the power is off.

2) After pressing the test button and selecting "Book Keeping" from the menu, you can view the "Income Data" on the screen.

3) One exclusive Memory Card is capable of saving the income data of several cabinets.

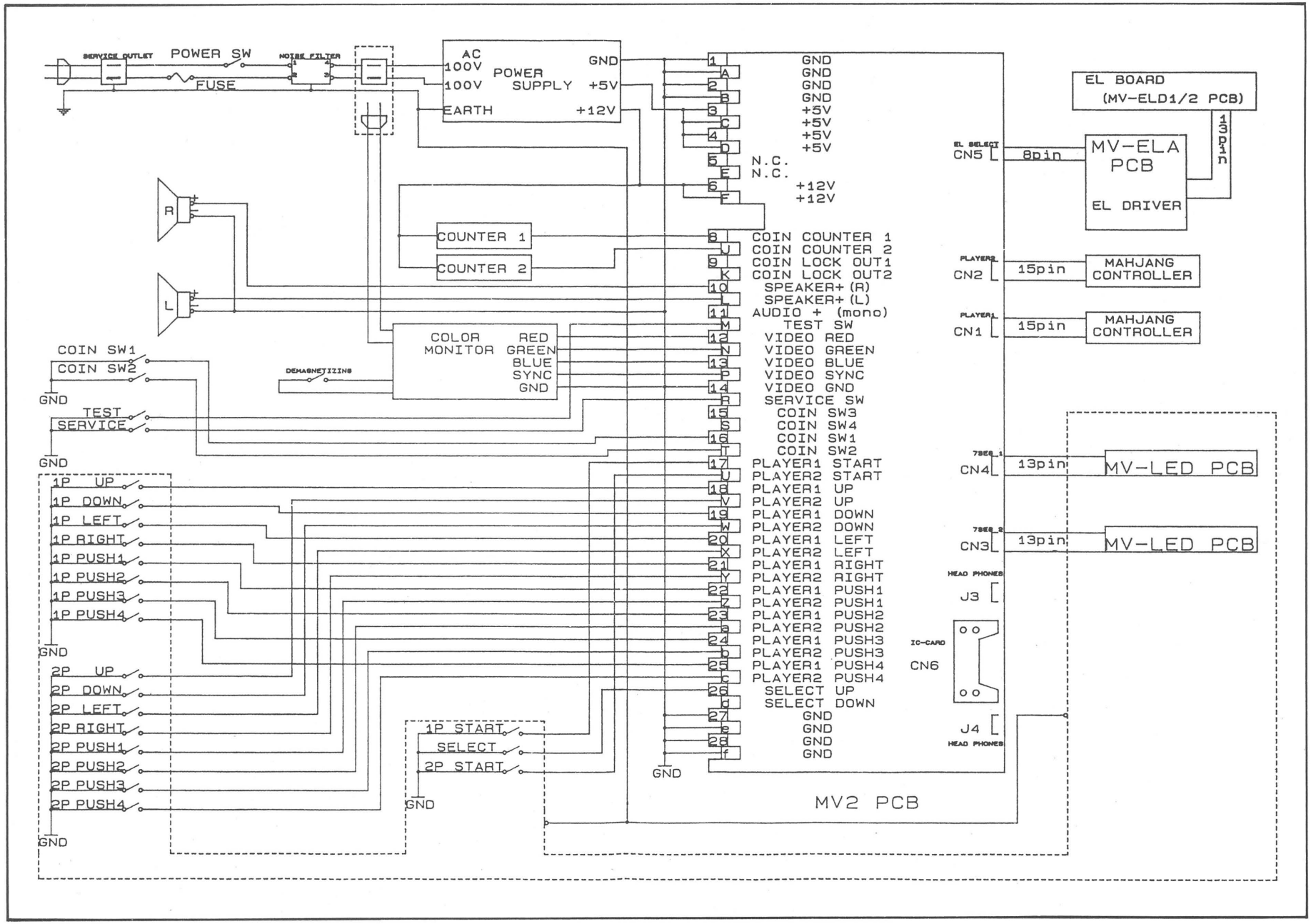
4) The collected data from the memory card used in connection with the exclusive card reader enables you to check the entire income totals on your personal computer.

* Memory card, memory card adapter, and card reader are option.


NEO-MVH MV2
SNK NEO-MVH MV2 MADE IN JAPAN
2
1
EL
1B
2B
HEADPHONES OUT
MEMORY CARD I/F CONNECTOR
HEADPHONES OUT
MV-ELA PCB I/F CONNECTOR
CREDIT (MV-LED PCB I/F CONNECTOR)
DC 5V PILOT LAMP
HEADPHONES VR
SPEAKER VR
56P CARD EDGE CONNECTOR
DIP SW
MAHJONG CONTROLLER I/F CONNECTOR

○MAIN HARNESS

SOLDER SIDE	PIN #		PART SIDE
GND	A	1	GND
GND	B	2	GND
+5V	C	3	+5V
+5V	D	4	+5V
	E	5	
+12V	F	6	+12V
KEY	H	7	KEY
COIN COUNTER 2	J	8	COIN COUNTER 1
COIN LOCK OUT2	K	9	COIN LOCK OUT1
SPEAKER+ (L)	L	10	SPEAKER+ (R)
TEST SWITCH	M	11	AUDIO + (mono)
VIDEO GREEN	N	12	VIDEO RED
VIDEO SYNC	P	13	VIDEO BLUE
SERVICE SW	R	14	VIDEO GND
COIN SW4 (P2/ 2)	S	15	COIN SW3 (P1/2)
COIN SW2 (P2/ 1)	T	16	COIN SW1 (P1/1)
START 2	U	17	START 1
PLAYER2 UP	V	18	PLAYER1 UP
PLAYER2 DOWN	W	19	PLAYER1 DOWN
PLAYER2 LEFT	X	20	PLAYER1 LEFT
PLAYER2 RIGHT	Y	21	PLAYER1 RIGHT
PLAYER2 PUSH1	Z	22	PLAYER1 PUSH1
PLAYER2 PUSH2	a	23	PLAYER1 PUSH2
PLAYER2 PUSH3	b	24	PLAYER1 PUSH3
PLAYER2 PUSH4	c	25	PLAYER1 PUSH4
SELECT DOWN	d	26	SELECT UP
GND	e	27	GND
GND	f	28	GND


SERVICE OUTLET
POWER SW
NOISE FILTER
FUSE
AC 100V
AC 100V
EARTH
POWER SUPPLY
GND
+5V
+12V
R
L
COUNTER 1
COUNTER 2
COLOR MONITOR
RED
GREEN
BLUE
SYNC
GND
DEMAGNETIZING
COIN SW1
COIN SW2
TEST
SERVICE
1P UP
1P DOWN
1P LEFT
1P RIGHT
1P PUSH1
1P PUSH2
1P PUSH3
1P PUSH4
2P UP
2P DOWN
2P LEFT
2P RIGHT
2P PUSH1
2P PUSH2
2P PUSH3
2P PUSH4
1P START
SELECT
2P START
1 GND
A GND
2 GND
B GND
3 +5V
C +5V
4 +5V
D +5V
5 N.C.
E N.C.
6 +12V
F +12V
8 COIN COUNTER 1
U COIN COUNTER 2
9 COIN LOCK OUT1
K COIN LOCK OUT2
10 SPEAKER+ (R)
L SPEAKER+ (L)
11 AUDIO + (mono)
M TEST SW
12 VIDEO RED
N VIDEO GREEN
13 VIDEO BLUE
P VIDEO SYNC
14 VIDEO GND
R SERVICE SW
15 COIN SW3
S COIN SW4
16 COIN SW1
T COIN SW2
17 PLAYER1 START
U PLAYER2 START
18 PLAYER1 UP
V PLAYER2 UP
19 PLAYER1 DOWN
W PLAYER2 DOWN
20 PLAYER1 LEFT
X PLAYER2 LEFT
21 PLAYER1 RIGHT
Y PLAYER2 RIGHT
22 PLAYER1 PUSH1
Z PLAYER2 PUSH1
23 PLAYER1 PUSH2
a PLAYER2 PUSH2
24 PLAYER1 PUSH3
b PLAYER2 PUSH3
25 PLAYER1 PUSH4
c PLAYER2 PUSH4
26 SELECT UP
d SELECT DOWN
27 GND
e GND
28 GND
f GND
MV2 PCB
EL BOARD (MV-ELD1/2 PCB)
EL SELECT CN5
8pin
MV-ELA PCB
EL DRIVER
13pin
PLAYER2 CN2
15pin
MAHJANG CONTROLLER
PLAYER1 CN1
15pin
MAHJANG CONTROLLER
7SEG_1 CN4
13pin
MV-LED PCB
7SEG_2 CN3
13pin
MV-LED PCB
HEAD PHONES J3
IC-CARD CN6
J4 HEAD PHONES

SNK CORPORATION
18-8, TOYOTSU-CHO,SUITA-SHI, OSAKA, 564, JAPAN.
TELEPHONE:(06)338-7007 FAX:(06)338-7150 TELEX:5236785 SNKCO.J