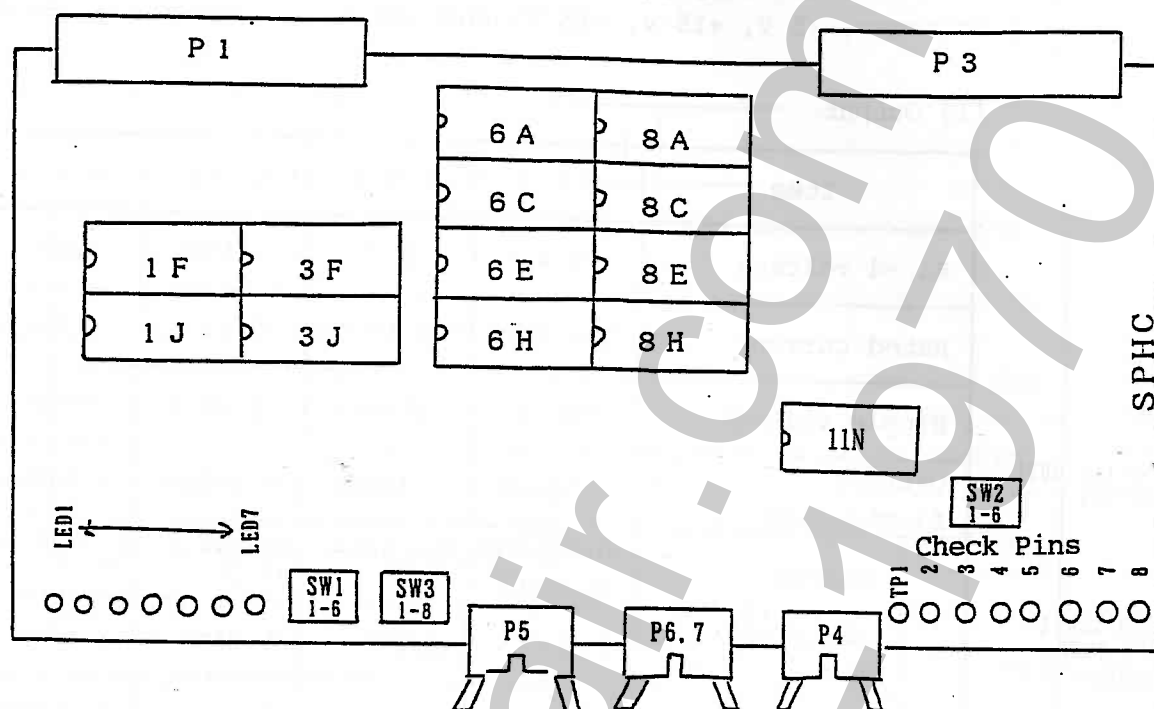


## 2-2 System Control Unit (SPHC Board)

This is a CPU board to monitor the entire controller.



### 2-2-1 Connectors

Symbol	Name	Description
P 1		System bus
P 2		Local bus
P 3	S L B U S	S L B U S
P 4	RS232C1	RS232C port CH1
P 5	RS232C2	RS232C port CH2
P 6	RS232C3	RS232C port CH3 (board side)

## 2-2-2 Check Pins

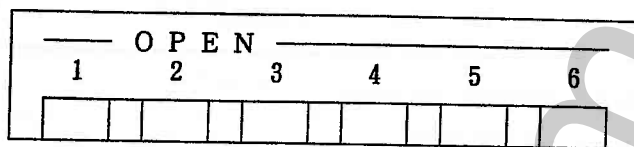
Symbol	Name	Description
T P 1	G	Logic ground (black)
P 2	+ 5 V	Logic power 5 V
P 3	+ 1 2 V	RS232C driver power +12 V
P 4	- 1 2 V	RS232C driver power -12 V
P 5	+ 2 4 V	general purpose I/O power 24 V (this board unused)
P 6	T P	SLBUS signal (+)
P 7	T N	SLBUS signal (-)
P 8	T X E	SLBUS transmission/reception selector signal H: Transmission, L: Reception

## 2-2-3 LED Indicators

Symbol	Name	Color	Description
L E D 1	R D Y	G	Illuminated at normal time
2	R U N	G	Illuminated when the CPU runs
3	S L B U S	G	Blinking at SLBUS communication time
4	F A I L	R	Illuminated when the board has a error
5	W D T 1	R	Illuminated when the watchdog timer runs out of time
6	P E R R	R	Illuminated at system RAM parity error time
7	B A T	R	Illuminated when the battery voltage drops (2.8 V or less)

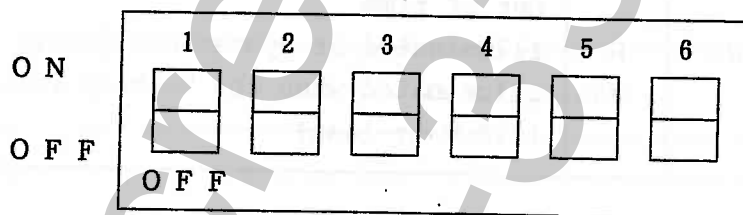
## 2-2-4 Setting the DIP Switches

### (1) SW1 ----- Setting the system start-up mode



Bit	Description	Setting at ROM Mode
1	Specifies the system start-up mode	Closed
2	DOS start-up ----- All bits 1, 2, and 3 open	Open
3	ROM start-up ----- Bits 1 and 3 closed	Closed
4	At DOS start-up mode	Open
5	Specifies the data format for the system console	Open
6	Unused	Open

### (2) SW2 ----- Setting the SLBUS mode



Bit	ON	OFF	Standard
1			OFF
2			OFF
3			OFF
4			OFF
5			OFF
6			OFF

(3) SW3 ----- Setting the system mode

O P E N							
1	2	3	4	5	6	7	8

(a) 1, 2 and 3 of SW3 ... Type of display system.

Bit			Contents
1	2	3	
			Color CRT
C			Plasma display
	C		8 colors liquid crystal
C	C		EL display, 16 graduation

(Note) Space is open. C means close.

(b) 4, 5, 6, 7 and 8 of SW3 ... Type of program when rising.

Bit					Contents
4	5	6	7	8	
					S-III
			C		Board initialize
				C	M16-III
		C		C	M16-III +NCIF
			C	C	OS by RS 232C #2
		C	C	C	Yu-Yu Memory
	C	C	C	C	Function test
C	C	C	C	C	Test system program

(Note) Space is open and C means close.

## 2-2-5 Installing the System ROM

### (1) Main CPU program memory

The ROM label is inscribed as shown below. Install in accordance with location.

S x R y y	-----	Version
- z z	-----	Location
> 6 A	-----	Board Name
S P H C	-----	

### (2) SLBUS program memory

The ROM label is inscribed as shown below. Install in accordance with location.

Y x R y y	-----	Version
- z z	-----	Location
> 6 A	-----	Board Name
S P H C	-----	