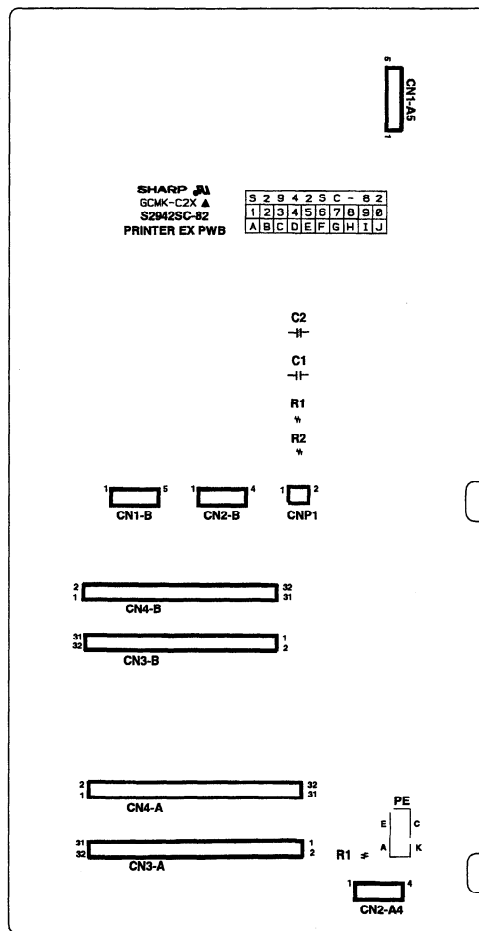


Extension printer board unit



EXTENSION PRINTER PWB

NO.	PARTS CODE	DESCRIPTION	Q'TY	PRICE RANK
1	QCNW-4802SCZZ	CABLE [CNP1]	1	AU
2	QCNW-4803SCZZ	CABLE [CN1-B]	1	AM
3	QCNW-4804SCZZ	CABLE [CN2-B]	1	AM
4	QCNW-4805SCZZ	CABLE [CN3-B],[CN4-B]	2	AW
5	QCNCM7014SC0B	CONNECTOR [CNP1]	1	AD
6	QCNCM7014SC0D	CONNECTOR [CN2-A],[CN2-B]	2	AB
7	QCNCM7014SC0E	CONNECTOR [CN1-A],[CN1-B]	2	AB
8	QCNCW2556SC3B	CONNECTOR [CN3-A],[CN3-B],[CN4-A],[CN4-B]	4	AG
9	VHPSG206S// -1	PHOT INTERRUPTER [PC1]	1	AG
10	VRD-HT2EY471J	RESISTOR (1/4W 470Ω ±5%) [R1],[R2]	2	AA

2. Description

2-1. Extension board unit

- Remove the TEL/LIU PWB, control PWB and Power Supply PWB from this unit, and mount the extension board unit instead.
 - Before connecting the wiring to the extension board unit, set the test PWB switches to the fixed position.
- The setting is as follows.

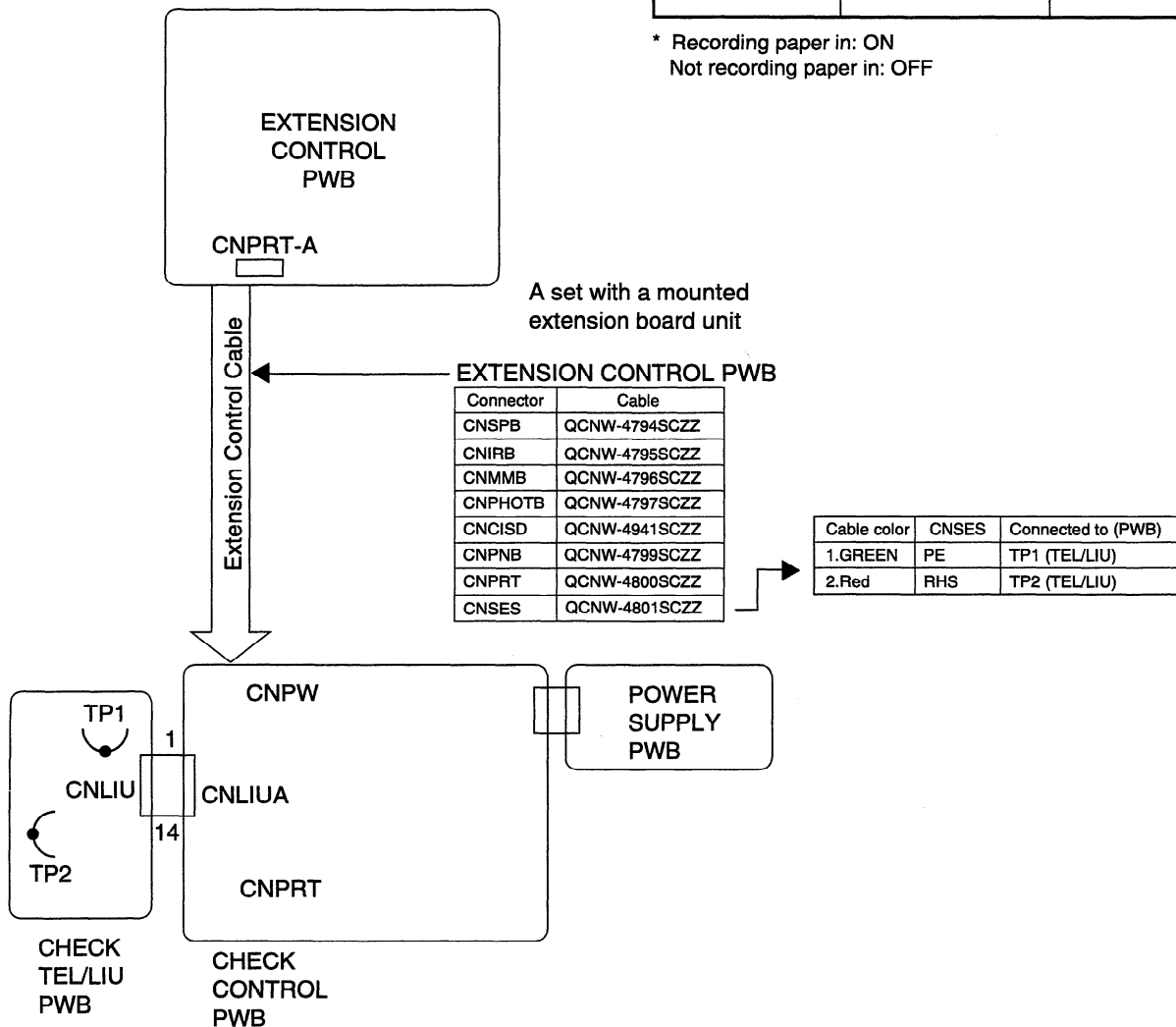
(1). Check Control PWB only

The paper-in sensor (PCI) is operated by OR of the mechanical unit switch and the test PWB switch.

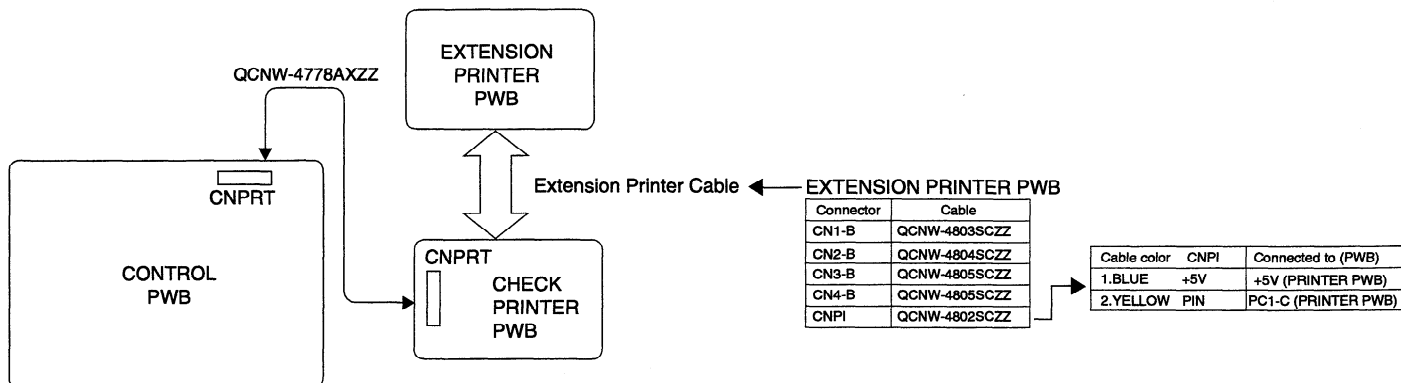
When performing installation in the machine unit, set the test PWB switch to the fixed position.

	Mechanical unit	PWB to be tested
	Actual operation with mechanical unit	
Paper in sensor	ON/OFF operation	OFF (Photo interrupter is interrupted.)
	PWB sensor check	
Paper in sensor	OFF	ON/OFF operation

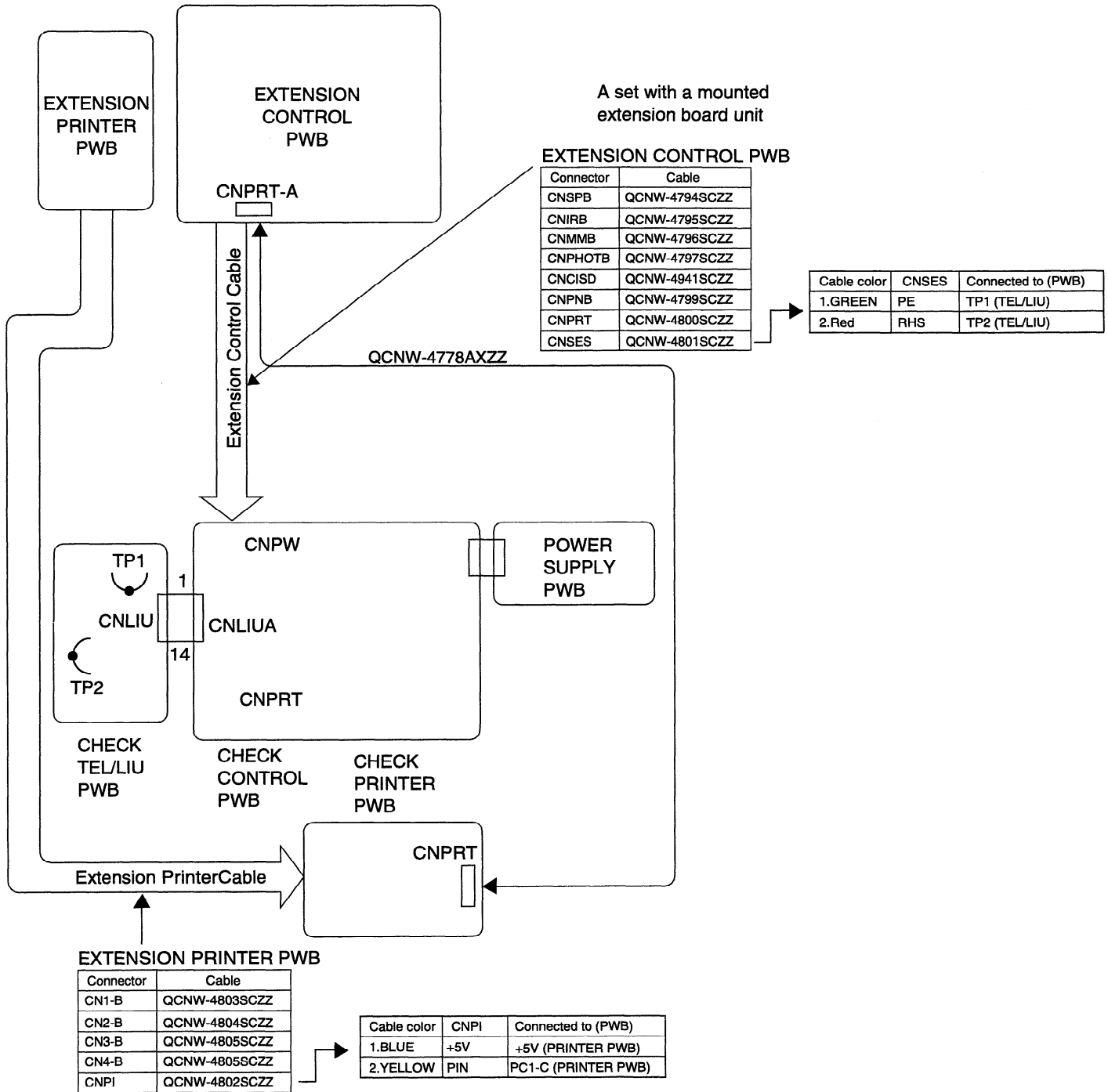
* Recording paper in: ON
Not recording paper in: OFF



(2). Check Printer PWB only



(3). Check Printer PWB and Control PWB



3. Scanner calibration sheet (Shading sheet)

Be sure to perform this operation when replacing the battery or replacing the control PWB. Execute in the shading mode of DIAG mode.

SCANNER CALIBRATION SHEET FOR FULL COLOR MFP
INSERT WITH THIS SIDE UP. ▲

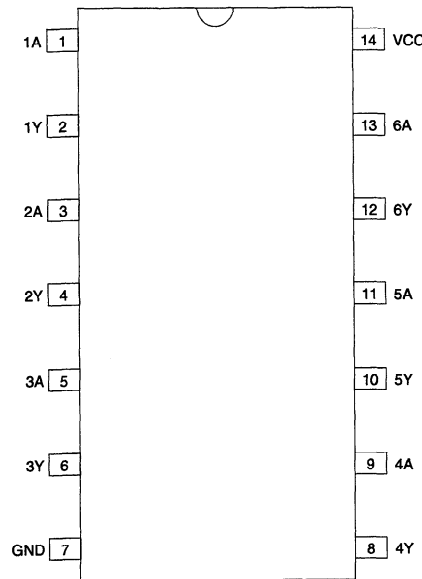
(PSHEZ3396SCZZ)

[2] IC signal name

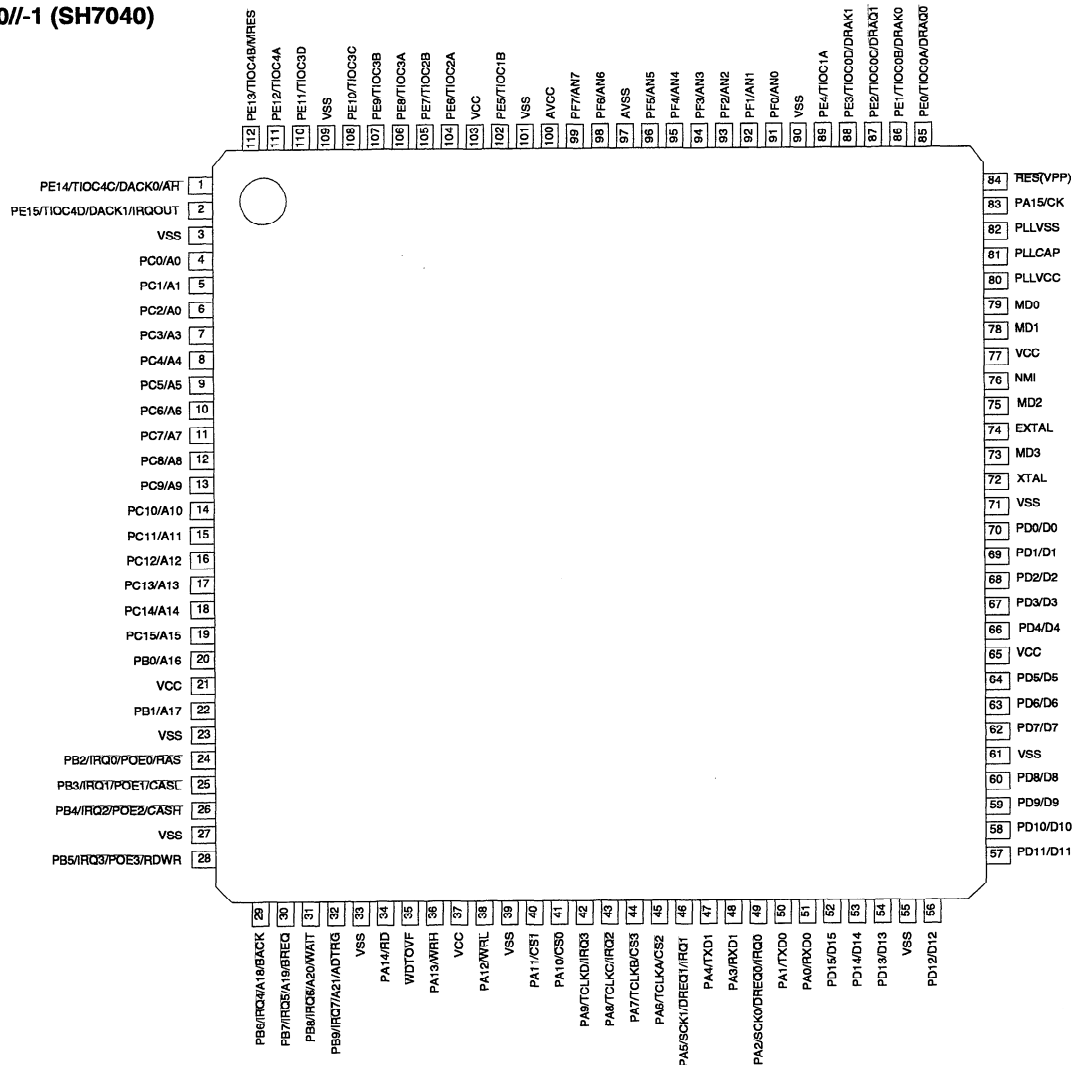
CONTROL PWB UNIT

IC5, IC9: VHi74HCU04S-1 (74HCU04)
IC12: VHiSN74HC14NSR (74HC14)
IC15: VHiSN74HCO4NSR (HC04)

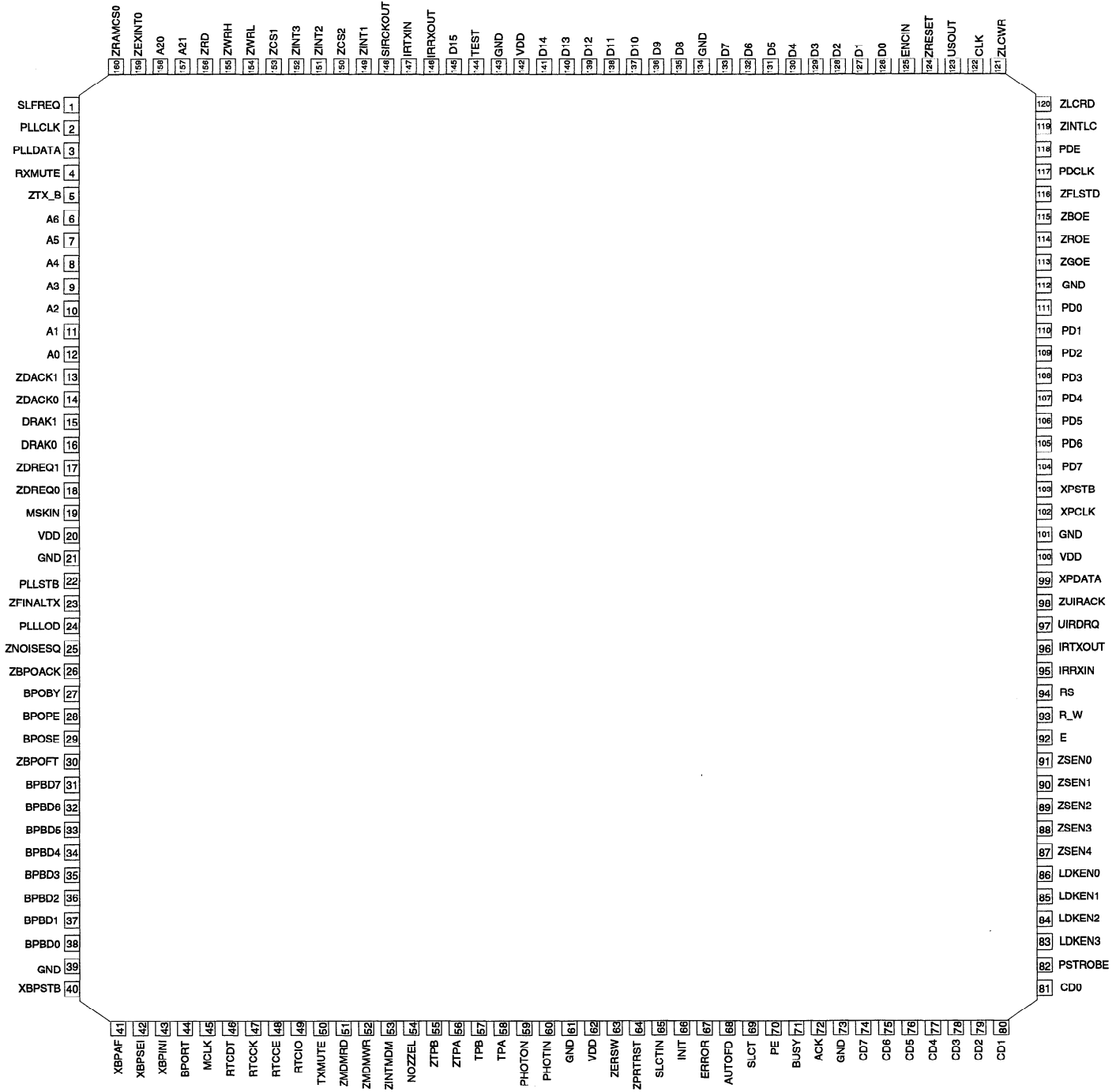
TOP VIEW



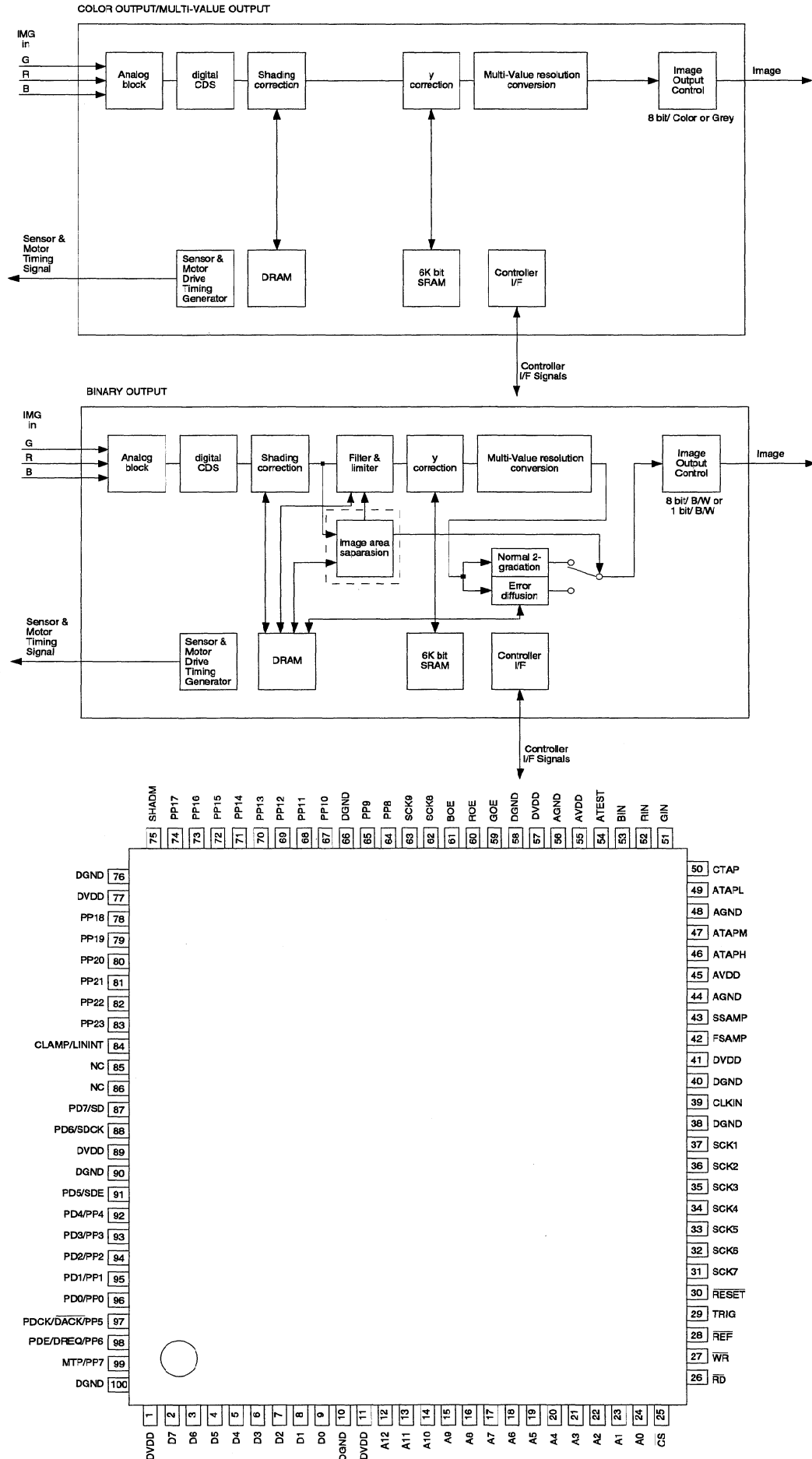
IC11: VHiSH7040//1 (SH7040)



IC10: VHiLZ9FJ49-1 (LZ9FJ49)



IC6: VHiLC821040-1 (LC82104)



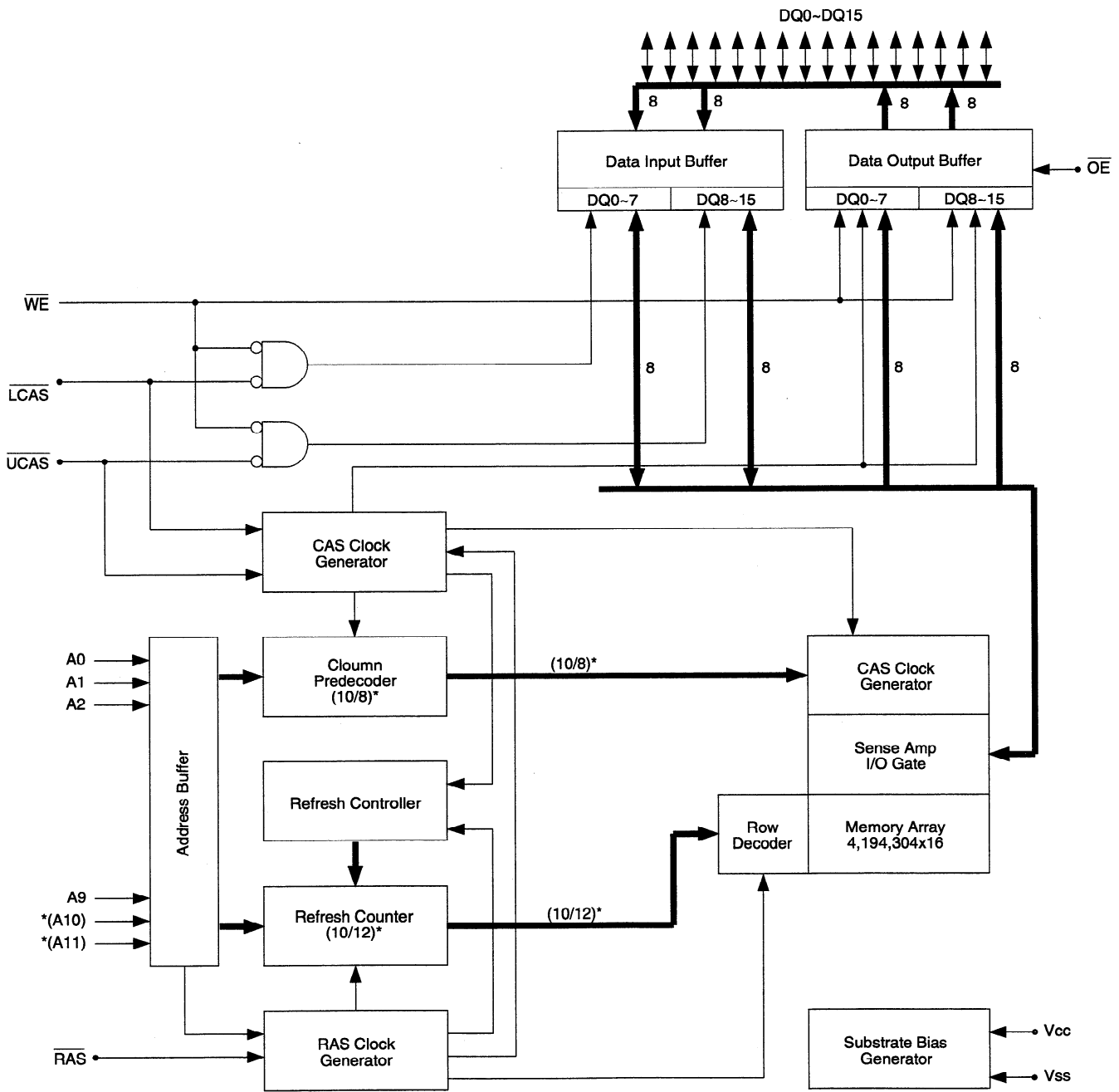
LC82104 (IC6) Terminal Function

Pin NO.	Signal Name	I/O	Function
1	DVDD	P	Digital power terminal
2	D7	B	CPU interface data bus terminal D7/MSB , D0/LSB terminal
3	D6	B	
4	D5	B	
5	D4	B	
6	D3	B	
7	D2	B	
8	D1	B	
9	D0	B	
10	DGND	P	Digital ground terminal
11	DVDD	P	Digital power terminal
12	A12	I	CPU interface address bus terminal A12/MSB , A0/LSB terminal
13	A11	I	
14	A10	I	
15	A9	I	
16	A8	I	
17	A7	I	
18	A6	I	
19	A5	I	
20	A4	I	
21	A3	I	
22	A2	I	
23	A1	I	
24	A0	I	
25	CS	I	CPU interface chip selection signal terminal
26	RD	I	CPU interface reading signal terminal
27	WR	I	CPU interface writing signal terminal
28	REF	I	DRAM refresh signal input terminal
29	TRIG	I	External trigger signal input terminal
30	RESET	I	System reset terminal
31	SCK7	O	Sensor drive signal output terminal
32	SCK6	O	
33	SCK5	O	
34	SCK4	O	
35	SCK3	O	
36	SCK2	O	
37	SCK1	O	
38	DGND	P	Digital ground terminal
39	CLKIN	I	System clock input terminal
40	DGND	P	Digital ground terminal
41	DVDD	P	Digital power terminal
42	FSAMP	O	Floating point monitor signal output terminal
43	SSAMP	O	Sensor data point monitor signal output terminal
44	AGND	P	Analog ground terminal
45	AVDD	P	Analog power terminal
46	ATAPH	O	Analog intermediate terminal for A/D converter high reference
47	ATAPM	O	Analog intermediate terminal for A/D converter middle reference
48	AGND	P	Analog ground terminal
49	ATAPL	O	Analog intermediate terminal for A/D converter low reference
50	CTAP	O	Analog intermediate terminal for analog clamp
51	GIN	I	Green sensor signal input terminal
52	RIN	I	Red sensor signal input terminal
53	BIN	I	Blue sensor signal input terminal
54	ATEST	O	Analog test terminal (normal open)
55	AVDD	P	Analog power terminal
56	AGND	P	Analog ground terminal
57	DVDD	P	Digital power terminal
58	DGND	P	Digital ground terminal
59	GOE	O	Green data valid period signal terminal
60	ROE	O	Red data valid period signal terminal
61	BOE	O	Blue data valid period signal terminal

Pin NO.	Signal Name	I/O	Function
62	SCK8	O	Sensor drive signal output terminal
63	SCK9	O	
64	PP8	B	General input/output port terminal
65	PP9	B	
66	DGND	P	Digital ground terminal
67	PP10	B	General input/output port terminal
68	PP11	B	
69	PP12	B	
70	PP13	B	
71	PP14	B	
72	PP15	B	
73	PP16	B	
74	PP17	B	
75	SHADM	O	Distortion correction valid period signal output terminal
76	DGND	P	Digital ground terminal
77	DVDD	P	Digital power terminal
78	PP18	B	General input/output port terminal
79	PP19	B	
80	PP20	B	
81	PP21	B	
82	PP22	B	
83	PP23	B	
84	CLAMP/LININT	O	Clamp point monitor signal output/Line signal output terminal
85		NC	
86		NC	
87	PD7/SD	O	DMA output/Serial data output terminal
88	PD6/SDCK	O	DMA output/Serial transmission clock output terminal
89	DVDD	P	Digital power terminal
90	DGND	P	Digital ground terminal
91	PD5/SDE	O	DMA output/Serial data output valid period signal terminal
92	PD4/PP4	B	DMA output/General input/output port terminal
93	PD3/PP3	B	
94	PD2/PP2	B	
95	PD1/PP1	B	
96	PD0/PP0	B	
97	PDCK/DACK/PP5	B	Parallel data transmission clock output/DMA data acknowledge signal input/ General input/output port terminal
98	PDE/DREQ/PP6	B	Parallel data output valid period signal terminal/DMA data request signal output/ General input/output port terminal
99	MTP/PP7	B	Motor drive timing signal output/General input/output port terminal
100	DGND	P	Digital ground terminal

TYPE					
I	INPUT	B	BIDIRECTION	NC	NOT CONNECT
O	OUTPUT	P	POWER		

IC19 , 24: VHIHY18164CJ6 (MSM5118164C)

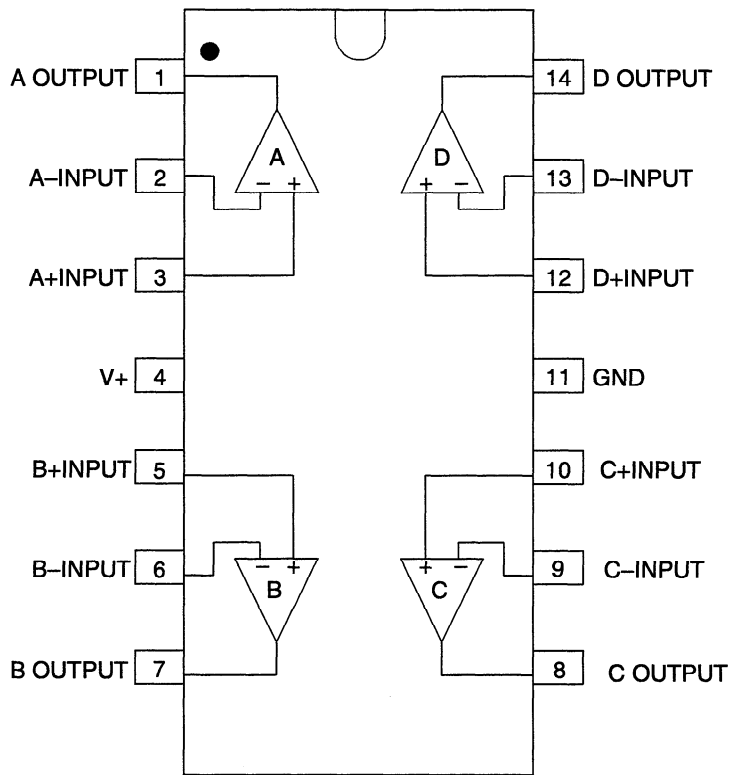


*(A10) and *(A11) for 4K refresh part
(1K Refresh / 4K Refresh)

INK SENSOR PWB UNIT

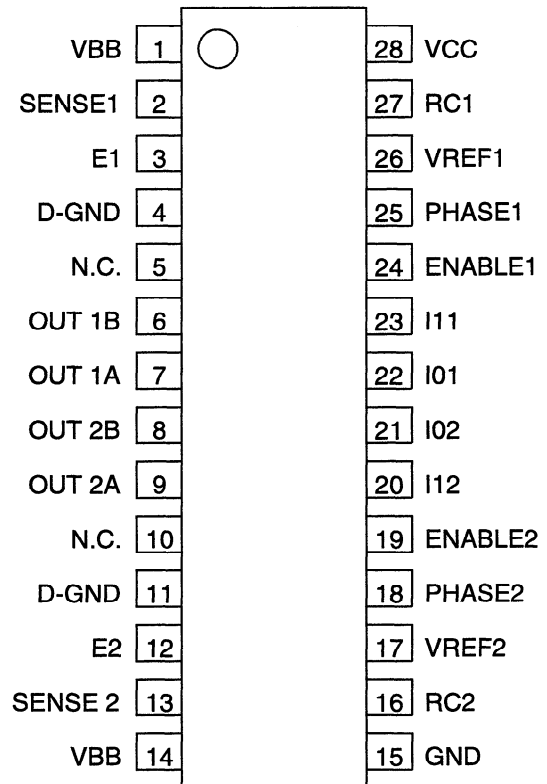
IC1: VHiNJM324M/-1 (LM324M)

TOP VIEW



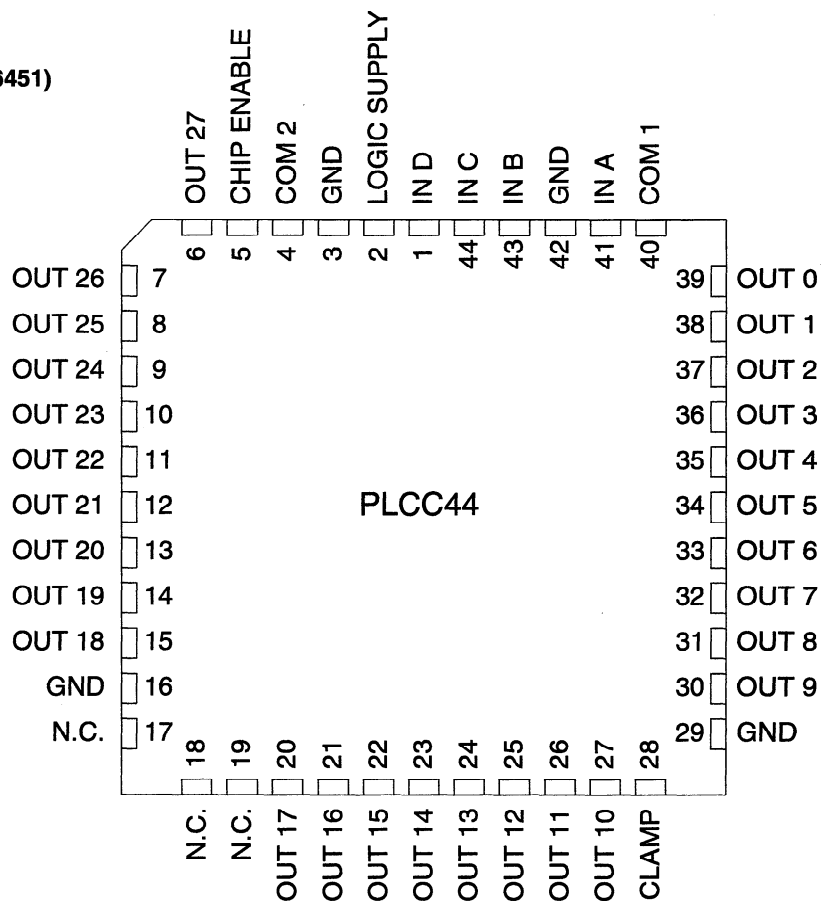
PRINTER PWB UNIT

IC1: VHiLB1845///-1 (LB1845)

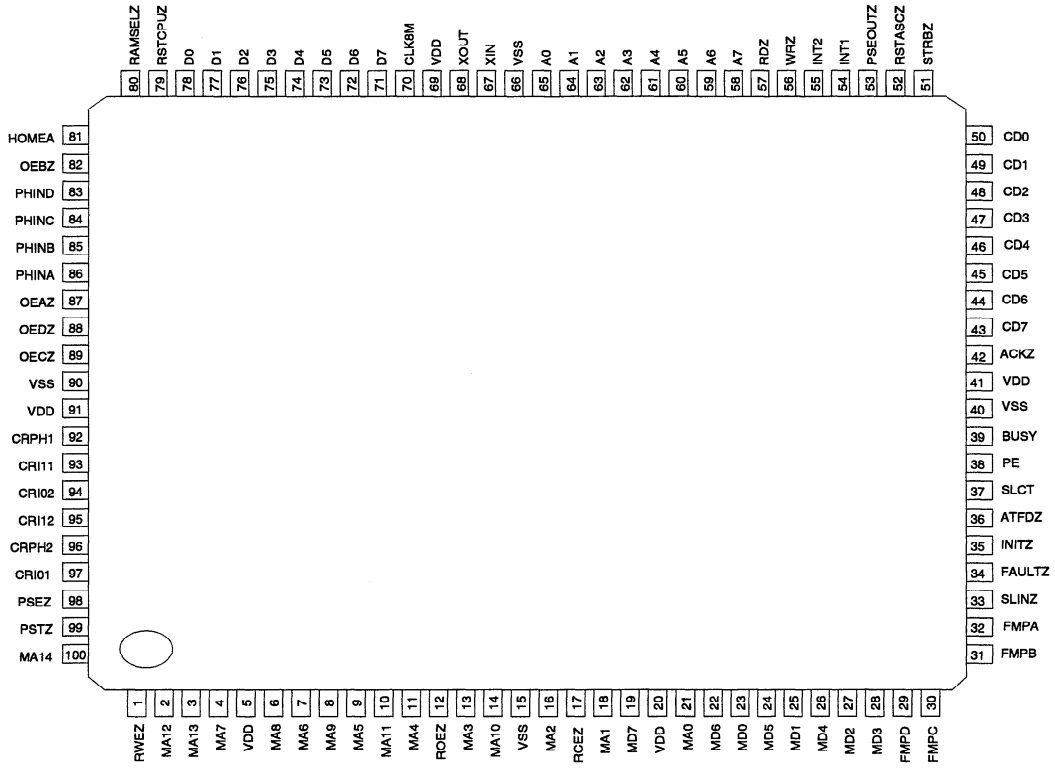


PRINTER PWB UNIT

IC4, IC6: VHiL6451////-1 (L6451)



IC5: VHITC16G331AF (TC160G331AF)



IC8: VHIIMP87PH47U (TMP87C807U)

