

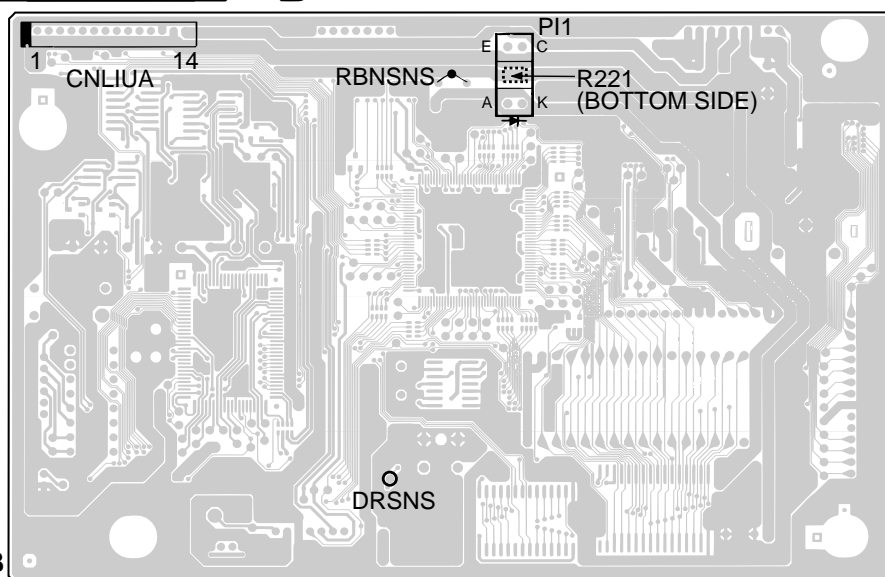
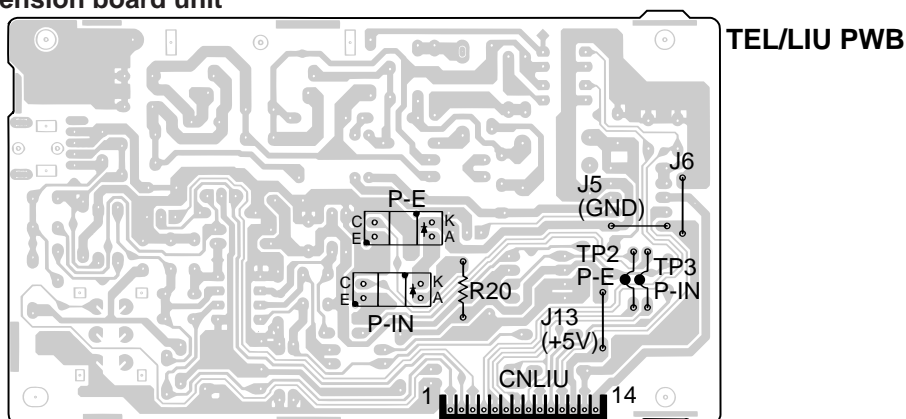
## CHAPTER 8. OTHERS

### [1] Service tools

#### 1. List

NO.	PARTS CODE	DESCRIPTION	Q'TY	PRICE RANK
1	CPWBS3002SCS1	Extension board unit (Control PWB)	1	BK
2	CPWBF3003SCS1	Extension board unit (TEL/LIU PWB)	1	BP
3	PSHEZ3354SCZZ	Shading wave memory standard paper	1	AD

#### Extension board unit



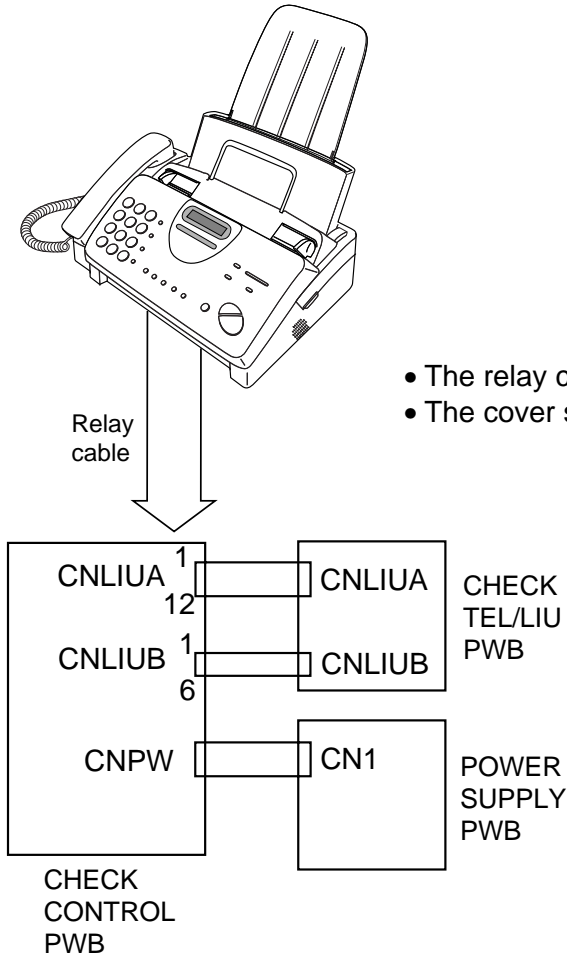
**CONTROL PWB**

NO.	PARTS CODE	DESCRIPTION	Q'TY	PRICE RANK
1	CCNW-4756SC01	SPEAKER RELAY CABLE	1	AK
2	CCNW-4757SC01	PANEL RELAY CABLE	1	AW
3	CCNW-4758SC01	CIS RELAY CABLE	1	AQ
4	CCNW-4759SC01	HEAD RELAY CABLE	1	AX
5	CCNW-4760SC01	CAM SWITCH RELAY CABLE	1	AK
6	CCNW-4763SC01	MOTOR RELAY CABLE	1	AP
7	QCNW-4969SCZZ	PAPER SENSOR RELAY CABLE	1	BF
8	VRS-TS2AD221J	RESISTOR (1/10W 220Ω ±5%)[R221]	1	AA
9	VHPSG206S// -1	PHOTO TRANSISTOR [PI1]	1	AG
10	QSW-M2259XHZZ	COVER SWITCH [SW1]	1	AF
11	QCNCM2575SC1D	CONNECTOR (14PIN)[CNLIUA]	1	AC
12	VRD-HT2EY101J	RESISTOR (1/4W 100Ω ±5%)[R20]	1	AA
13	VHPSG206S// -1	PHOTO TRANSISTOR [P-IN]	1	AG
14	VHPSG206S// -1	PHOTO TRANSISTOR [P-E]	1	AG
15	QCNCW2509SC1D	CONNECTOR (14PIN)[14PIN]	1	AF

## 2. Description

### 2-1. Relay board unit

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



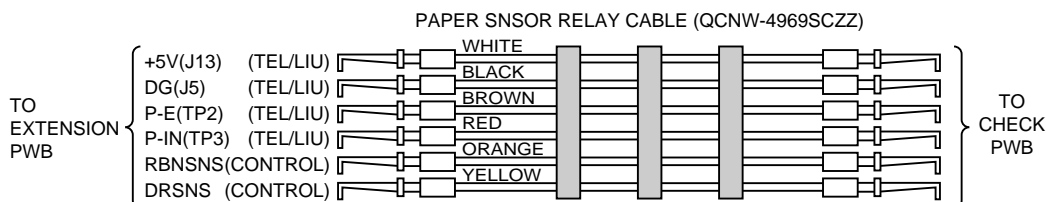
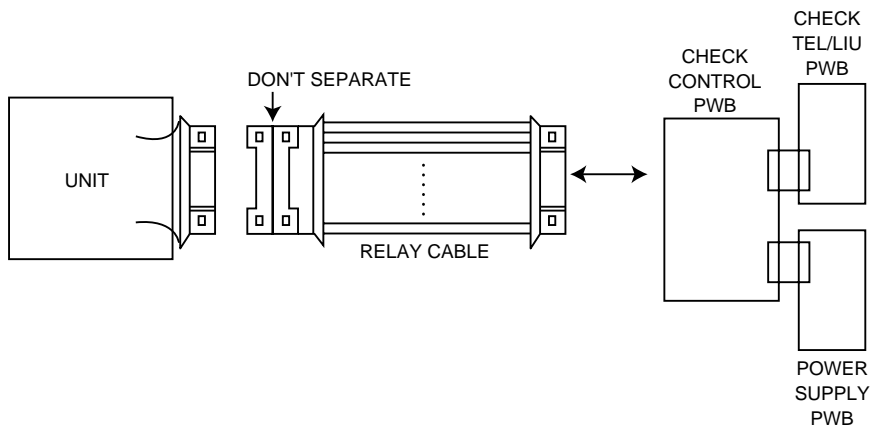
- The relay cables are used as one pair.
- The cover switch and hook switch are manually operated.

The recording paper sensor (P-E) and the hook switch are operated by OR of the mechanical unit switch and the test PWB switch. When performing installation in the machine unit, set the test PWB switches to the fixed position.

	Mechanical unit	PWB to be tested
Actual operation with mechanical unit		
Recording paper sensor	ON/OFF operation	OFF (Photo interrupter is interrupted.)
Hook SW	ON/OFF operation	ON-HOOK
PWB sensor check		
Recording paper sensor	OFF	ON/OFF operation
Hook SW	ON-HOOK	ON/OFF operation

\* Recording paper: ON  
No recording paper: OFF

#### NOTE



### 3. Shading paper

The white and black basis is applied to remember the shading waveform. Be sure to perform this operation when replacing the battery or replacing the control PWB. Execute in the shading mode of DIAG mode.

**UX-300 SERIES SHADING WAVE MEMORY STANDARD PAPER (PSHEZ3354SCZZ)**

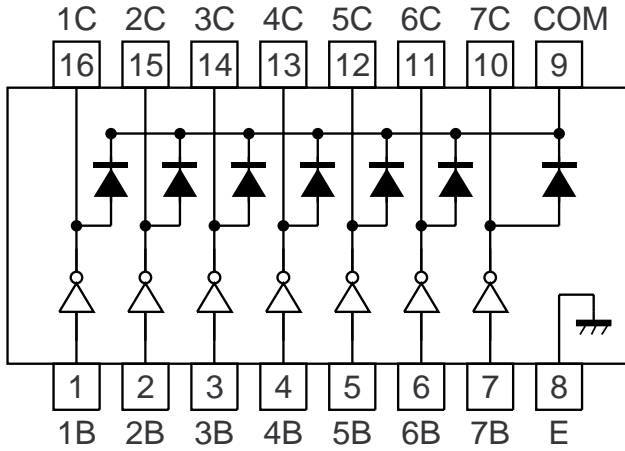


UX-370H/310H  
FO-730H

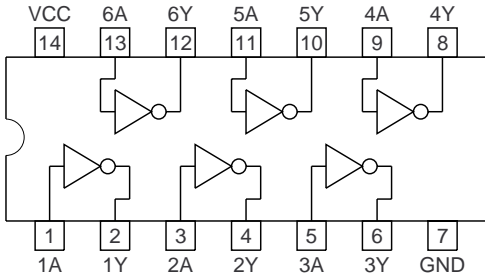
[2] IC signal name

CONTROL PWB UNIT

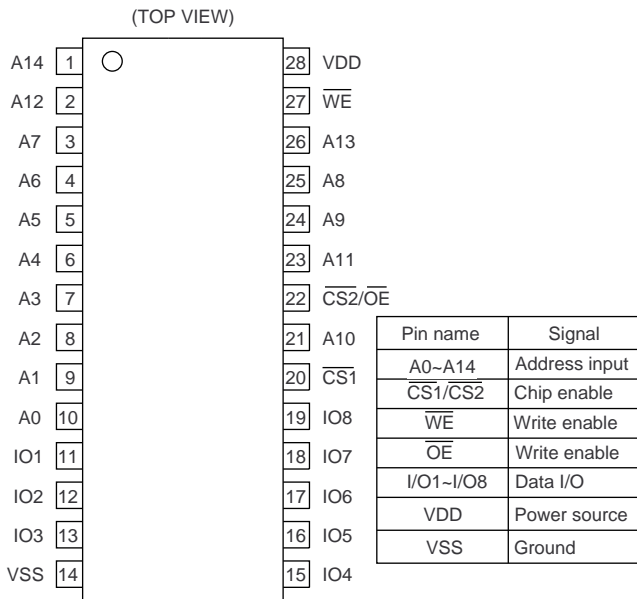
IC5: VHiULN2003AN/ (ULN2003ANS)



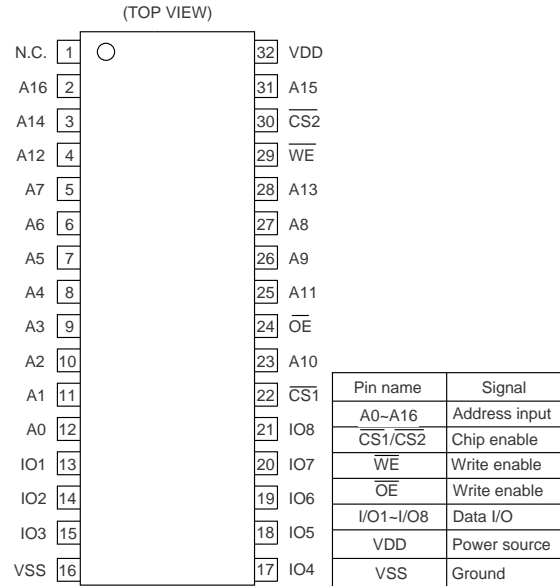
IC7: VHiTC74HCU04F (TC74HCU04F)



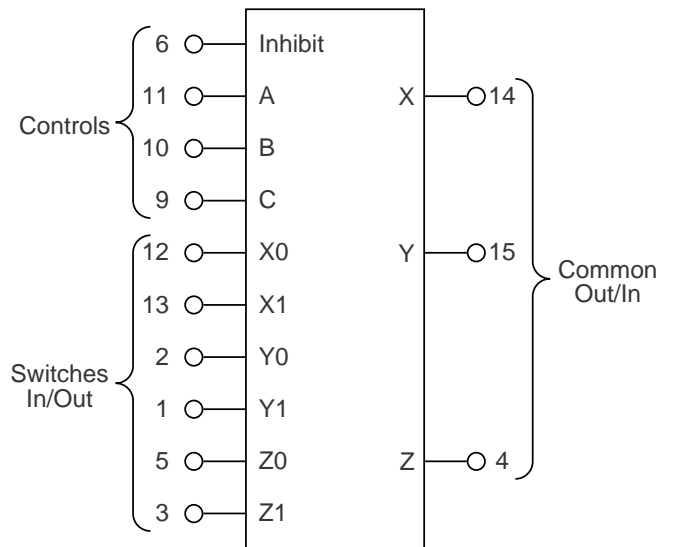
IC3: VHiW24258S7LE (W24258S-70LE)(UX-370)



IC2: VHiW24010S7LE (W24010S-70LE)(UX-310/FO-730)

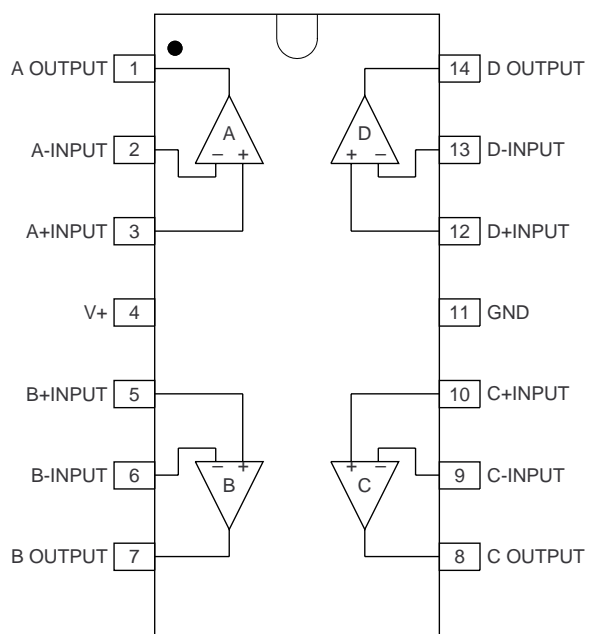


IC11: VHiHCF4053M1T (HCF4053B)

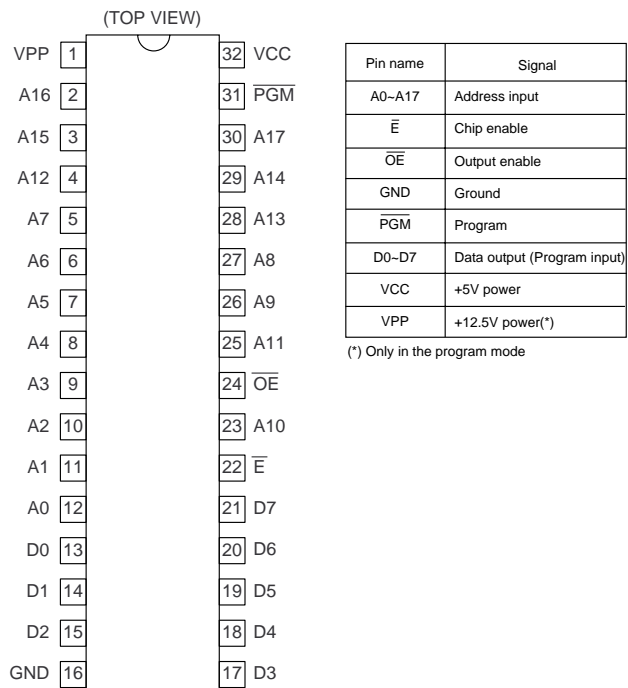


VDD: Pin 16  
VSS: Pin 8  
VEE: Pin 7

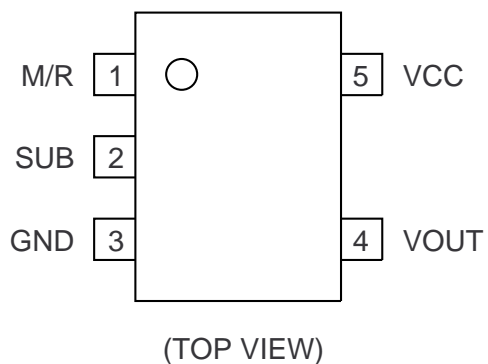
**IC12: VHiNJM2902M-1 (NJM2902M)**



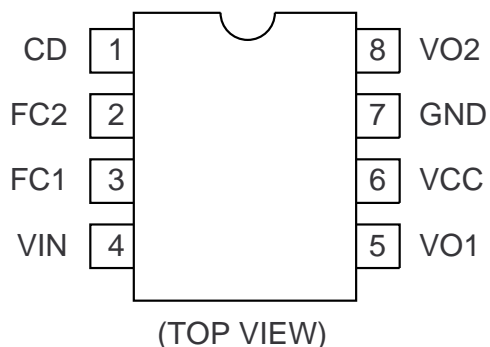
**IC4: VHi27C20012MX (27C020)  
EP-ROM**



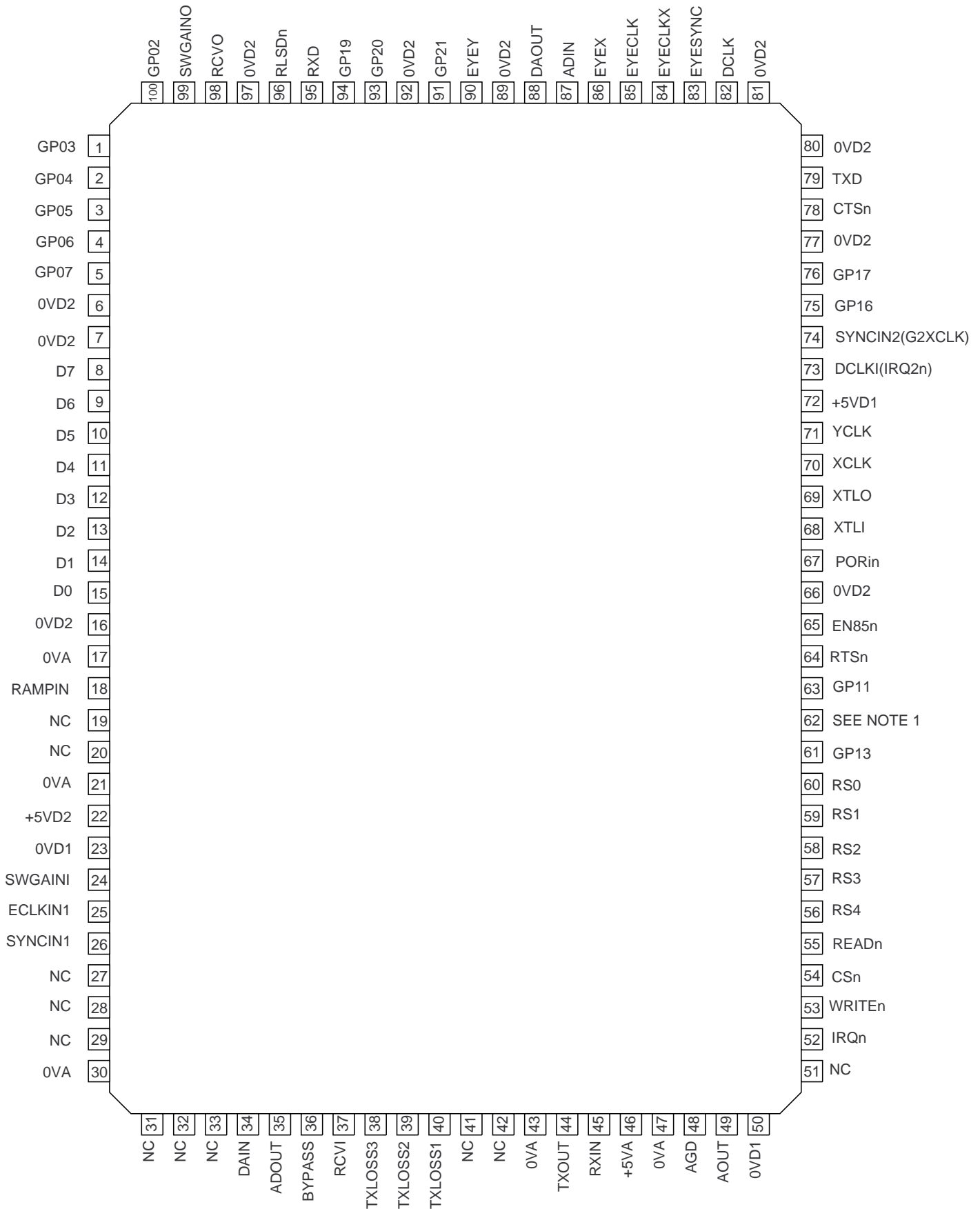
**IC8: VHiPST596CMT1 (PST596CNR)**



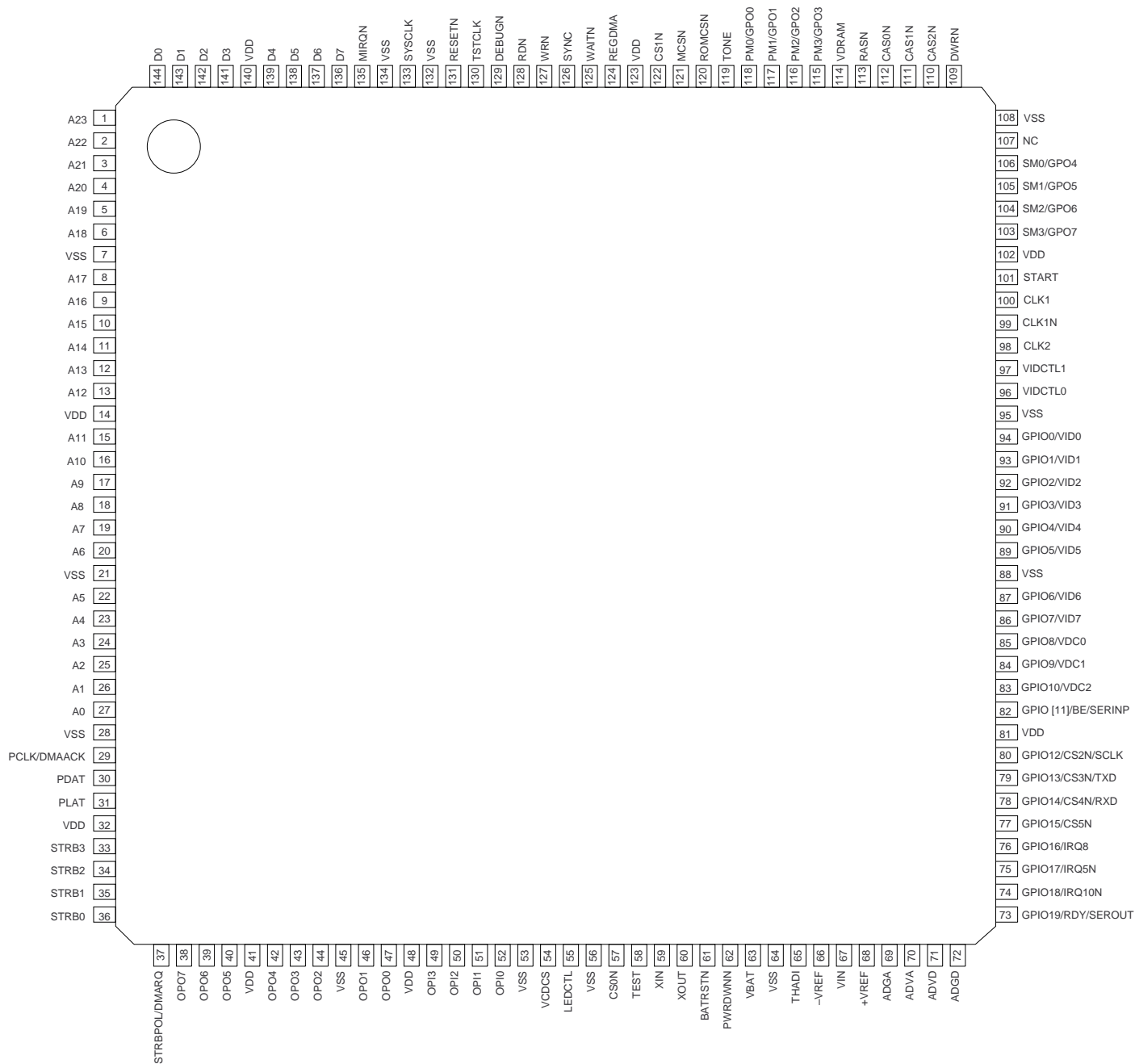
**IC10: VHiMC34119DR2 (MC34119)**



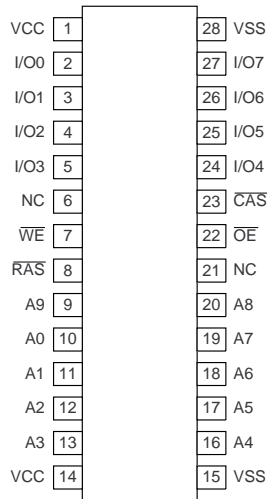
IC6: VHiR96CiDFC1M (R96DFXL-CID)



IC9: VHiR96CiDFC1M (FC100M)



IC1: RH-iX2129SCZZ (M514800C-70J)(UX-370)



PIN DESCRIPTION			
PIN	PIN NAME	PIN	PIN NAME
A0-A9	ADDRESS INPUT (LOW/REFRESH A0-A3 COLUMN A0-A3)	CAS	COLUMN ADDRESS STROBE
I/O0-I/O7	DATA I/O	WE	READ/WRITE INPUT
RAS	LOW ADDRESS STROBE	OE	OUTPUT ENABLE
		VCC	POWER (+5V)
		VSS	CONNECTION

