

SERVICE MANUAL & PARTS LIST

(without price)

CW-75

JUN. 2003



CW-75

CASIO®

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1. PRECAUTIONS DURING USE

- ① This printer does not have a function to write data to a CD-R/RW.
- ② Make sure to print a CD-R/RW before writing data to it.
Printing a CD-R/RW in which data is already written may damage the data.
- ③ Make sure to print on the label surface of a CD-R/RW.
Printing on the surface to which data is recorded damages the data.
- ④ Good printing may be impossible on such media as for an inkjet printer or with uneven surface and certain designs.
- ⑤ CW-75 is a printer which prints on the label surface of the media directly by thermal transfer. Good printing result may be impossible if a label for an inkjet printer is attached on the media.

2. SPECIFICATIONS

Input

Keyboard Layout: Typewriter (QWERTY)

Character Types

Alpha: 52 (A to Z, a to z); 99 (Á, ß, Ç, etc.), Numbers: 10, Greek: 48, Russian: 66, Symbols: 251, Illustrations: 124, User: Memory for storage of 4 characters

Display

Type: Liquid crystal display (1 line × 12 columns)
Character Matrix: 96 × 64 dots, plus symbol

Printing

Resolution: 200 dpi
Approximate Speed: 9.0 mm ($\frac{3}{8}$ ") / second (black ink ribbon)
5.1 mm ($\frac{3}{16}$ ") / second (silver, red, blue, or green ink ribbon)
Actual speed depends on various factors.

Print System: Thermal transfer
Print Width: Approximately 16 mm ($\frac{5}{8}$ ")
Print Length: Approximately 74 mm ($2\frac{15}{16}$ ")
Fonts: New Sans-serif, New Sans-serif Italic, New Sans-serif Rounded, New Roman, New Roman Italic
Character Styles: Normal, bold
Number of Lines: 8 maximum

Memory

Text: Up to 4,000 characters
Preset Phrases: Up to 49 characters (9 phrases)

General

Power Requirements: Eight AA-size alkaline batteries; AD-A12280LAC adaptor (optionally available)
Memory Back-up: Built-in battery
Memory Back-up Battery Life: As noted on the sticker on the back of the printer (at 20°C(68°F)). Replacement requires charged maintenance by CASIO service center.
Power consumption: 18W
Auto Power Off: Approximately six minutes after last key operation
Auto Power Off disabled under AC adaptor power and when printer is connected to a computer.
Dimensions: 76 (H) × 184 (W) × 185 (D) mm
(3"H × 7 $\frac{1}{4}$ "W × 7 $\frac{1}{4}$ "D)
Approximately Weight: 900g (2 lbs) excluding batteries
Operating Temperature: 10°C to 35°C (50°F to 95°F)

3. HOW TO ADJUST THE SETTINGS

- Perform the RESET operation after the inspection, delete the data and return the printer head to home position.

RESET : Turn the power on while pressing [PRINT] and [ESC] simultaneously.

Home position : Turn the power on while pressing [P], [SPACE] and [Z] simultaneously.

↓
Select **B MOTER** and then press [SET].

↓
Select **1 CENTER** and then press [SET].

- Test program can be classified into two tests; one which uses PC and the other which tests built-in ROM, and corresponds to each test process.
- Use a black ribbon cartridge when printing during the test.
- PC which supports the use of USB is required for the test since this model is compatible with USB.
- Make sure to turn all the power off when inserting/removing the connectors or connecting the tools.

1. Adjustment

○ Test conditions

- ◆ Perform the test under the following conditions unless otherwise specified.

VADP (adaptor) = 12.0 V $\pm$ 0.2 V

Ambient temperature : 15 ~ 35 °C

○ Current test and Voltage test

- ◆ Make sure that the input current is within the range below at the specified input voltage (12V).

	Typ	Max
Print	1100 mA	1300 mA

NOTE: Measuring the current during the printing of reverse check

- ◆ Make sure that the input current is within the range below at the specified input voltage (12V).

	Typ	Max
Off	40 μ A	70 μ A

○ LCD adjustment

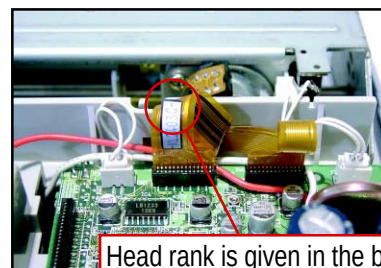
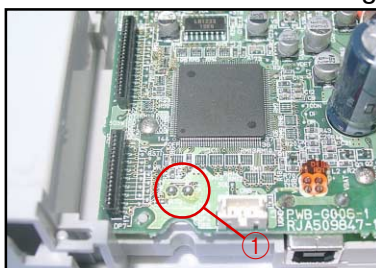
- ◆ Volume : Adjust the LCD contrast by VR1

VLCD = 9.30 $\pm$ 0.1 V

○ Head rank setting

- ◆ Set the short pad ① as in the table below according to the head ranks.

	RANK1	RANK2
A	SHORT	OPEN
B	OPEN	OPEN
C	SHORT	SHORT
D	OPEN	SHORT

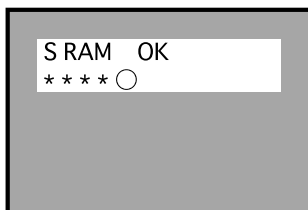


Head rank is given in the back of the printed characters.

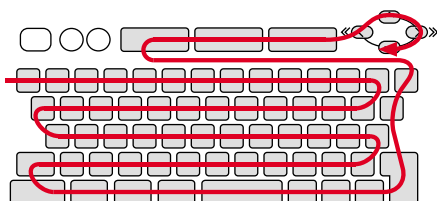
2. Testing the built-in ROM

2-1. RAM CEHCK SUM and the button test

- ◆ Turn the power on while pressing [P], [SPACE] and [Z] simultaneously to boot the test program.
- ◆ Select **1 SALL 1** and press [SET].
- ◆ The test starts upon buzzer sound. Confirm the display as follows after a few seconds.



- ◆ Proceed to key input test upon pressing [SET].
- ◆ Input all keys according to the display.

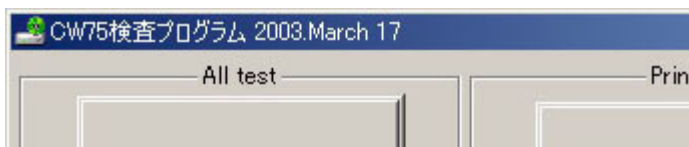


NOET: The display returns to top menu when the test normally ends.

The test automatically proceeds if the result is OK. The test stops when any test item is NG, and displays the result.

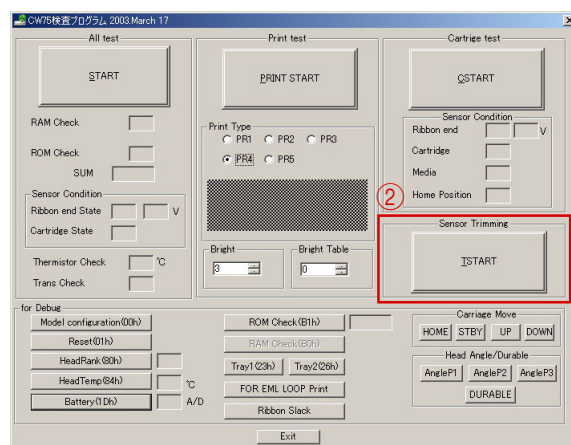
3. Testing with PC

- The following driver and the application must be installed in order to execute the test program.
CW75.exe
CW75.dll
- Corresponding OS : Windows 98 / me / 2000
- Checking the version : Check the upper left of the window to see if the version appears as follows.

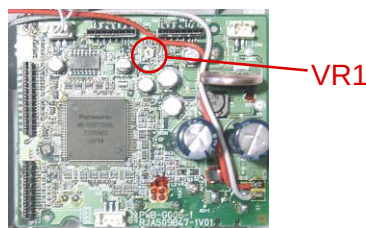


3-1. Ribbon end trimming

- ① Place the ribbon cartridge (metallic red) for trimming.
- ② Perform TSTART of the "Sensor Trimming".

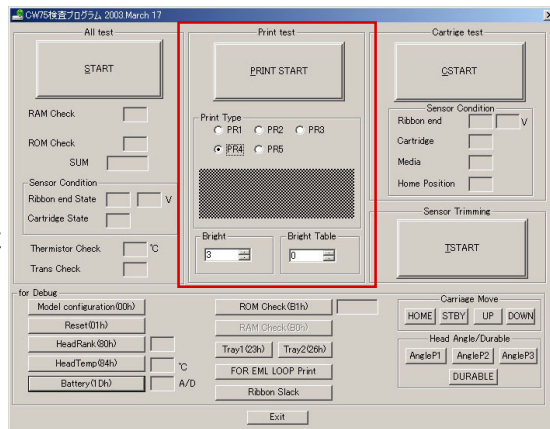


- ③ Adjust VR1 on the PCB G006-1 so that the voltage becomes within the range of $2.5 \pm 0.1V$.



3-2. Print test

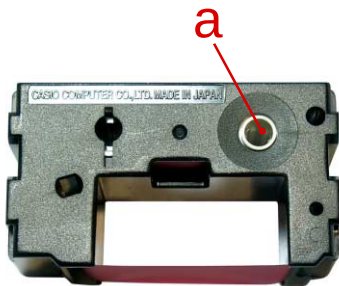
- ① Perform the following setting.
- ② Perform PRINT START of "Print Start".
Print Type: PR4
Bright: 3 (default)
- ③ Judge the printing result by the following factors;
Partial dots, Light printing, Blur, Print position sticking



Creating the ribbon cassette for trimming

NOTE: Use the red tape.

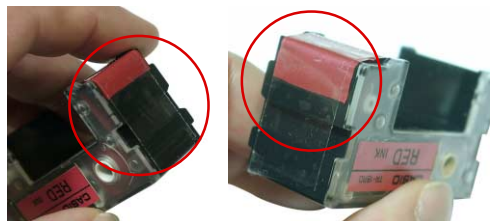
1. Rotate part **a** in the below figure and remove the looseness of the tape.



2. Apply instant glue to parts **b** and **c** as shown in the figure to fix the tape.

- c** Apply about two drops to this part.
- b** Apply a little more (about three drops) to this part.
Make sure to leave them until they are glued tightly or the tape will be loosened and cannot be used.

4. Cut the center of the tape and fix both ends of the table by scotch tape.



NOTE: Make sure to stretch the tape tightly since the loose tape causes low voltage.
Write the initially measured voltage as shown in the figure.



4. DISASSEMBLY

1. Remove the UPPER CASE ASS'Y.

- ①. Open the battery cover on the back of the unit and remove the battery case.



- ②. Push in the hole by a thin stick and eject the tray manually.



- ③. Remove the ink ribbon cassette.



- ④. Remove the tray.

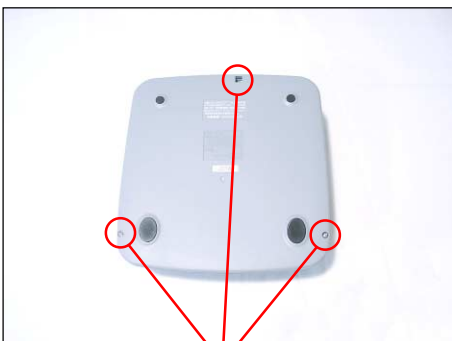


hooks

Be careful of the hooks when removing the tray.

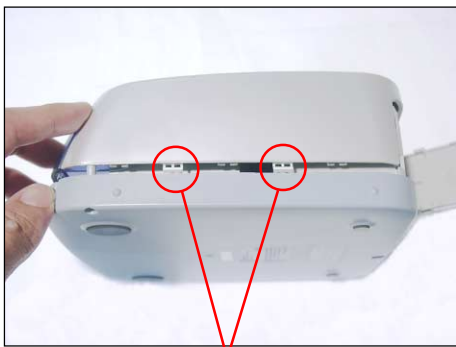


- ⑤. Remove the three screws.



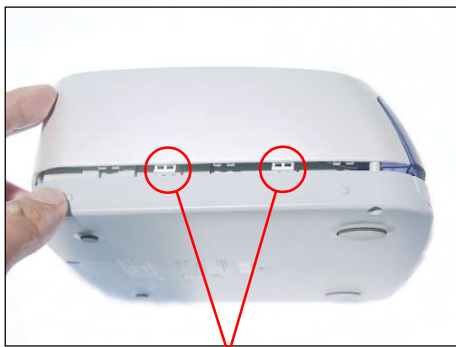
screws

⑥. Remove the two hooks on the right.



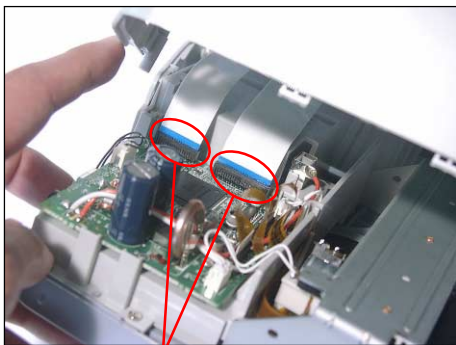
hooks

⑦. Remove the two hooks on the left.



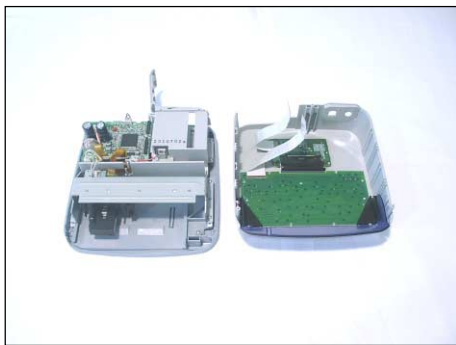
hooks

⑧. Remove the two FPCs (CN6, CN7).



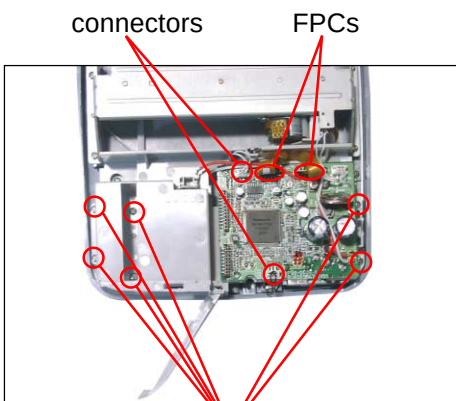
FPCs

⑨. Remove the upper case ass'y.

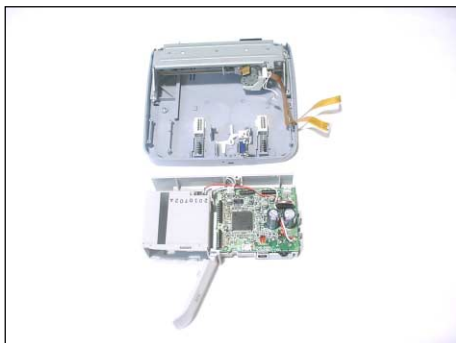


2. Remove the INNER CASE ASS'Y.

①. Remove the six screws, two connectors (CN4, CN5), two FPCs (CN1, CN2) and separate the INNER CASE ASS'Y.

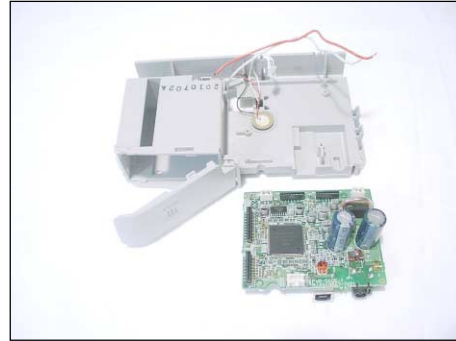
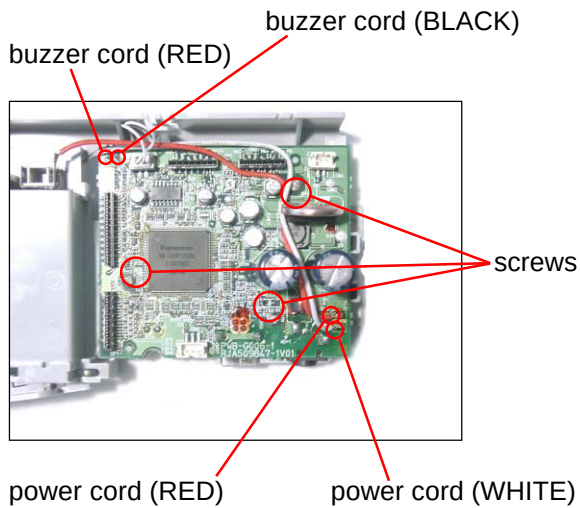


screws



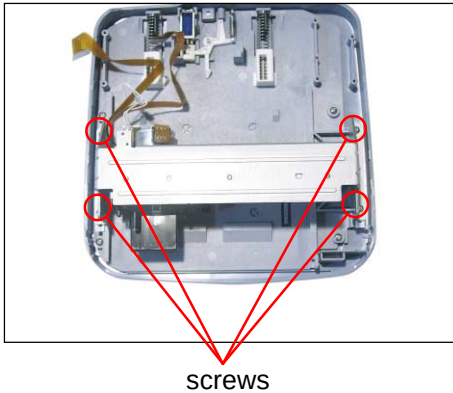
3. Remove the MAIN PCB ASS'Y.

- ①. Remove the two power cords, two buzzer cords, and three screws.



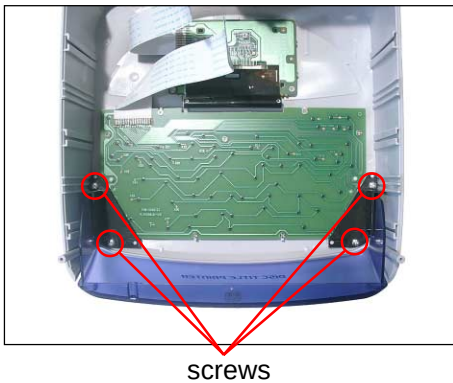
4. Remove the PRINTER ASS'Y.

- ①. Remove the four screws.

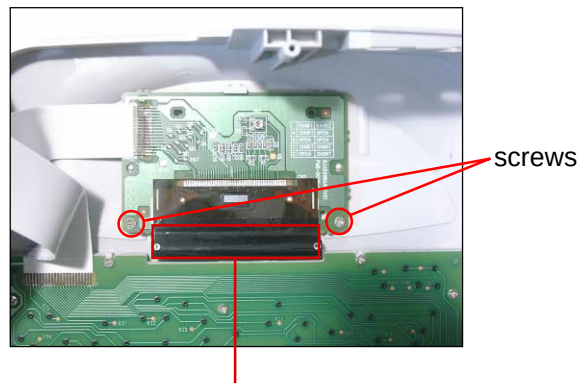


5. Disassemble the UPPER CASE ASS'Y.

- ① Remove the four screws and then the hinges.

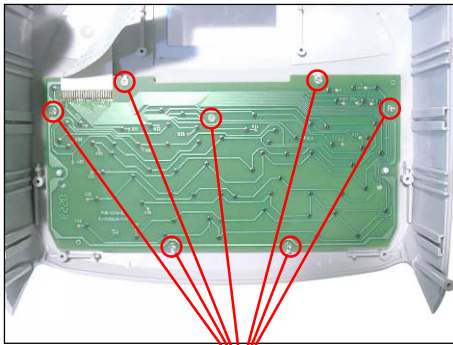


- ②. Remove the two screws and then the LCD ASS'Y.



Pay extra attention when removing the LCD since it can cause the display defect.

- ③. Remove the seven screws and then the KEY PCB ASS'Y.



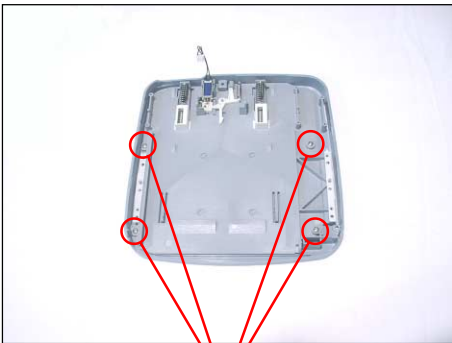
screws

- ④. Remove the rubber key.



6. Disassemble the LOWER CASE ASS'Y.

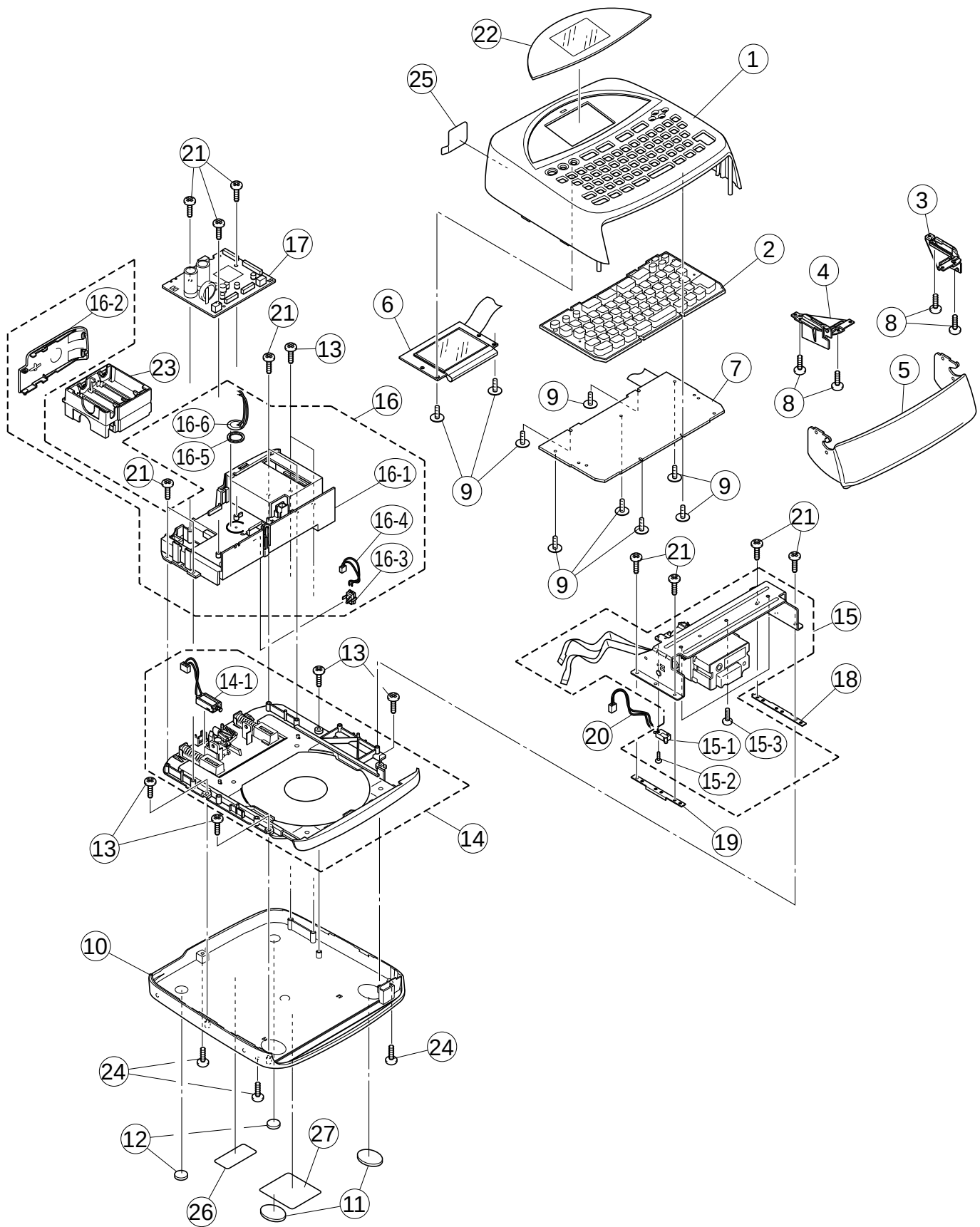
- ①. Remove the four screws and then the tray ass'y.



screws



5. EXPLODED VIEW



6.PARTS PRICE LIST

N	Item	Code No.	Parts Name	Specification	Q	Price Code	R
UPPER CASE ASSY							
N	1	10123424	CASE/UPPER	RJA509850-002V01	1	AT	C
N	2	10123326	RUBBER/KEY	RJA509860-002V01	1	AP	C
N	3	10091960	HINGE/A	RJA510025-001V01	1	AA	C
N	4	10091961	HINGE/B	RJA510026-001V01	1	AA	C
N	5	10123425	COVER/PRINTER	RJA509852-002V02	1	AG	C
N	6	10094342	PCB ASSY/DISPLAY/G006-2	TK-RJA510067*001	1	CM	A
N	7	10094343	PCB ASSY/KEY/G006-E4	TK-RJA510068*001	1	BA	B
	8	10100845	SCREW/BIND TAPPING	TYP.2 DIA2.3X6(NI)	4	AA	X
	9	63333000	SCREW	A33953-7	9	AA	X
LOWER CASE ASSY							
N	10	10091963	CASE/LOWER	RJA509851-001V01	1	AI	C
N	11	10092149	RUBBER/FOOT/A	RJA510019-001V01	2	AA	X
N	12	10092150	RUBBER/FOOT/B	RJA510020-001V01	2	AA	X
	13	10100845	SCREW/BIND TAPPING	TYP.2 DIA2.3X6(NI)	6	AA	X
PR UNIT							
N	14	10123427	TRAY ASSY	TK-A242162*005	1	BT	B
	14-1	10063562	SOLENOID	DP1020C-030	1	AM	C
N	15	10094346	PRINTER ASSY	TK-A242153*003	1	BF	C
	15-1	10063511	SWITCH	MLS-29AU	1	AD	C
	15-2	10084875	SCREW/PAN	M1.7X6TYP.1(BLK:MECK)	1	AA	X
	15-3	10073782	SCREW/PAN	M3X4 NI	3	AA	X
N	16	10094345	INNER CASE ASSY	TK-RJA510071*001	1	BG	C
N	16-1	10120431	CASE/INNER	RJA509855-001V03	1	AH	X
N	16-2	10091968	COVER/BATTERY	RJA509854-001V01	1	AE	C
	16-3	10063571	SWITCH	MLS-36AU	1	AD	C
	16-4	10063568	WIRE SUB ASSY	A445748*1	1	AA	X
N	16-5	10092144	CUSHION/A	RJA510078-001V01	1	AA	X
N	16-6	10034304	BUZZER	7BB-15-6A30	1	AC	C
N	17	10123426	PCB ASSY/MAIN/G006-1	TK-RJA510066*002	1	BB	A
	18	10063569	PLATE/CONTACT/LEFT	A445768-1	1	AB	X
	19	10063570	PLATE/CONTACT/RIGHT	A445769-1	1	AB	X
	20	10063568	WIRE SUB ASSY	A445748*1	1	AA	X
	21	10100845	SCREW/BIND TAPPING	TYP.2 DIA2.3X6(NI)	11	AA	X
COMPONENTS							
N	22	10123331	PLATE/DISPLAY	RJA509861-002V01	1	AI	C
N	23	10094341	CASE ASSY/BATTERY	TK-RJA510069*001	1	AW	X
	24	10100845	SCREW/BIND TAPPING	TYP.2 DIA2.3X6(NI)	3	AA	X
N	25	10123330	LABEL/B	RJA510246-002V01	1	AA	X
N	26	10123328	LABEL/C	RJA510247-002V01	1	AA	X
N	27	10123329	LABEL/D	RJA511671-001V01	1	AF	X
ACCESSORY							
N		10123422	CD ROM	CDZ585HA01D	1	AG	X
		69325395	USB CABLE	010525TI-01	1	AK	X
		10063509	CD GUIDE FILM	A445736-1	1	AF	X

Notes: N- New parts

Q-Quantity used per unit

R-Rank

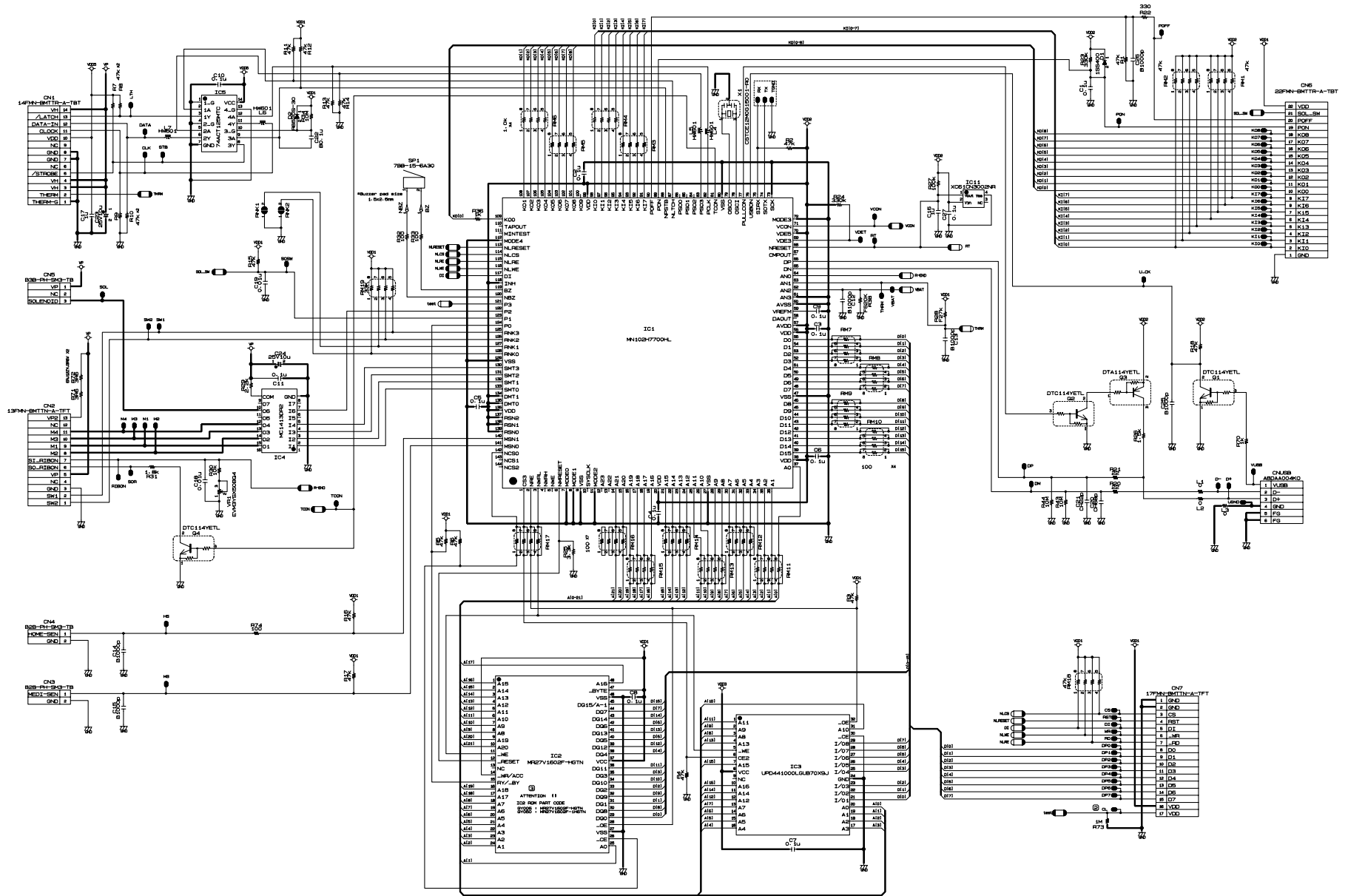
R- A: Essential

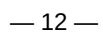
B: Stock recommended

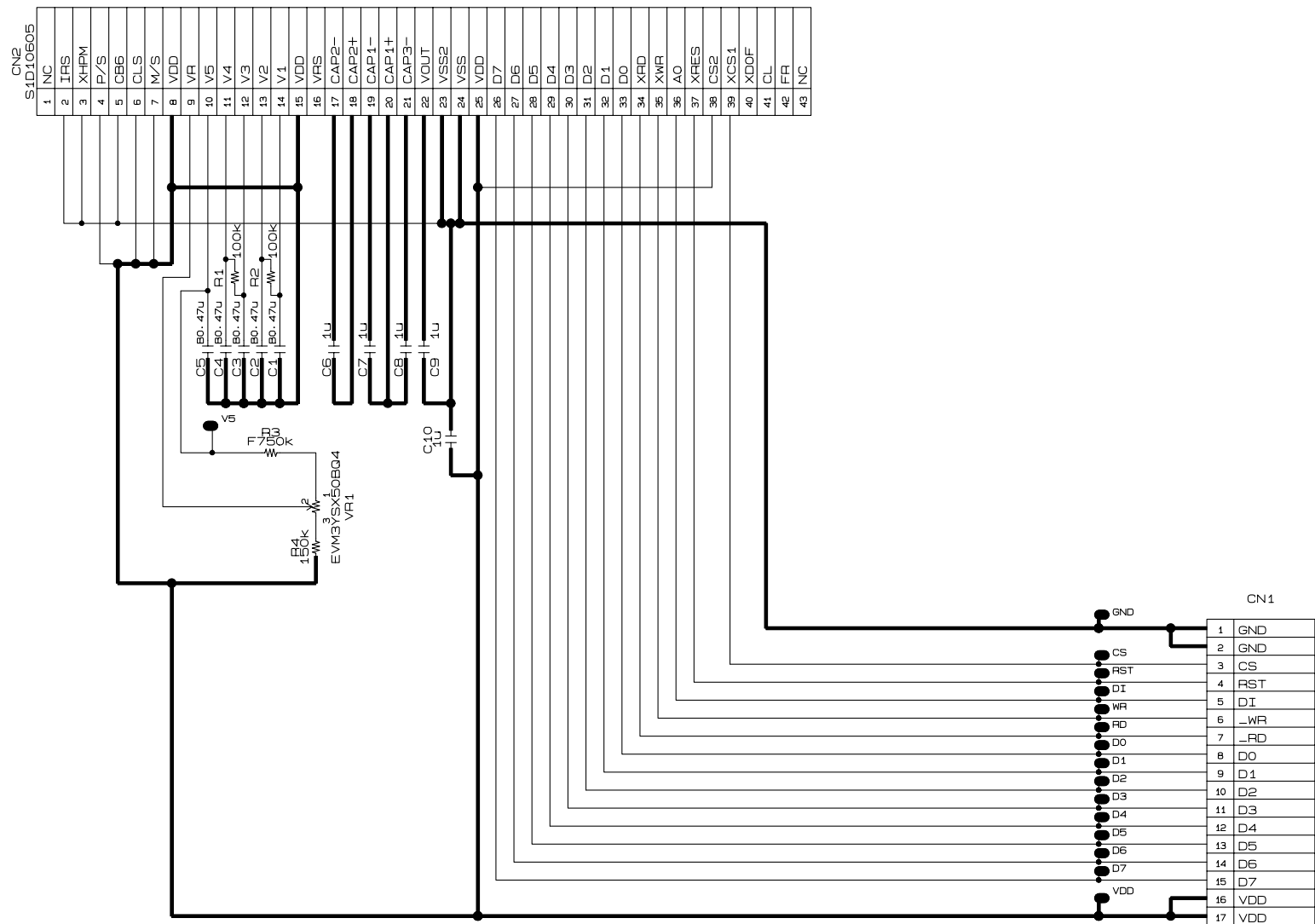
C: Others

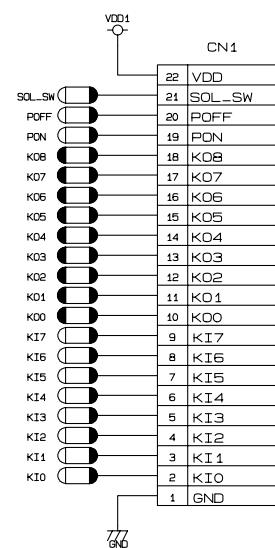
X: No stock recommended

7. SCHEMATIC DIAGRAMS









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