

SERVICE MANUAL & PARTS LIST (without price)

KL-780

AUG. 2003



KL-780

CASIO®

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1. SPECIFICATIONS

Specifications:

Display:	2 Lines / 10 Digits
	QWERTY-Keyboard
Supports label tape sizes:	6/9/12/18mm
Printing speed:	6,67mm/sec.
Thermal-Printing Head:	96 Pins
Resolution:	200 dpi
Size (H x W x L):	51,5 x 180 x 217mm
Weight:	480 g

Functions:

	1 font (Sans-Serif)
Effects:	Shading, Underline, Box
	207 Symbols and Characters
Print Styles:	Standard, Outline, Shadow, Raised
	Prints up to 3 lines on a single label
	24 Character Sizes (1x1 to 4x6)
Text Memory:	max. 95 Characters
Max. Printing Height:	12 mm
Text Memory:	max. 95 Characters
Max. Printing Height:	12 mm
Barcode Printing:	EAN-8, EAN-13
Batterytype:	(6 x /AA R6P/LR-6)
	AC Adaptor optionally available (AD-A95 100)
	Auto Power Off

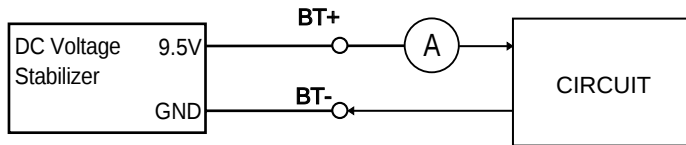
Included in Delivery:

Cartridge 1 x XR-9X4
Users Guide (En, Sp, Fr, It, Ger & Sw)

2. MEASUREMENT

Voltage input terminals: BT $\pm$ (Battery terminals)

Input voltage: $9.5^{+0.4}_{-0.6}$ V



Current:

Condition	Current value	
	Typical	Maximum
After turning power on	7.2 mA	15 mA
At the time of printing with dot shift	160 mA	240 mA
After turning power off	32 μ A	130 μ A

3. HEAD RANK SETTING

Set the head rank according to the printer unit.

Head rank information
The end of the code in the above figure is the head rank information.

Set Short, as follows, according to Rank.

	RNK 1	RNK 2
A	Short	Open
B	Open	Open
C	Short	Short
D	Open	Short

4. DIAGNOSTIC PROGRAM

How to boot the diagnostic program

1. Turn the power on while pressing the SPACE button, P button and Z button at the same time.
2. The main menu appears. ("PALL TEST" appears on the upper column of the LCD while "ALL TEST" appears on the lower column. The cursor appears on the left side of the "PALL TEST".)

How to operate the diagnostic program

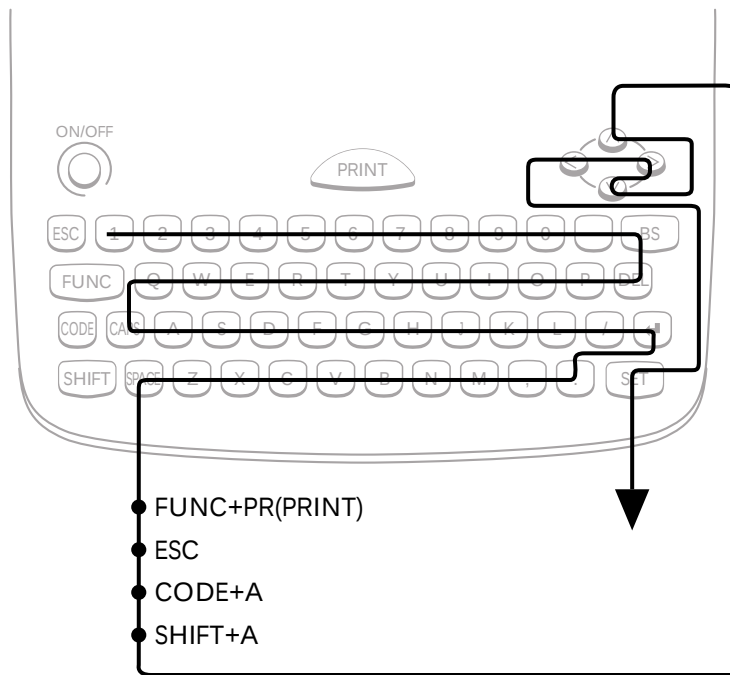
- * Remove the TAPE CASSETTE when performing the ROM check and key check.

1. ROM check

- Press the $\checkmark$ button, align the cursor with "ALL TEST", and then press the SET button.
- Confirm "CPU73B90" on the LCD.

2. key check

- While "CPU73B90" is on the LCD, press the SET button.
- Confirming numbers and characters that appear on the LCD in order (see the figure below), press each corresponding button.
- * The check does not proceed when a button other than the one shown on the LCD is pressed.
- * This check cannot be aborted. However, pressing the ESC button returns to the main menu.



- If the check finishes normally, "000" appears on the LCD.
- * If not, "000 NG" appears.

3. TAPE detection SW check

- Set a TAPE CASSETTE (18 mm size) and press the SET button.
- The TAPE has been detected normally when "111" appears on the LCD.
- * If not, "111 NG" appears.

4. Voltage check

- Press the SET button.
- The voltage appears on the LCD. If it is in the designated range (8.5V to 10.5V), the voltage is normal.
 - * If not, "VOL NG" appears.

5. Printing check

- Press the PRINT button and perform printing.
 - * Check whether there is a light printing.
 - * When a button other than PRINT button is pressed, or the printing is defective, "PRINT ERROR!" appears.

When the diagnostic program is finished, the LCD returns to the main menu.

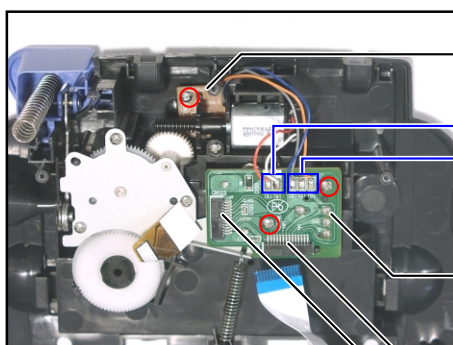
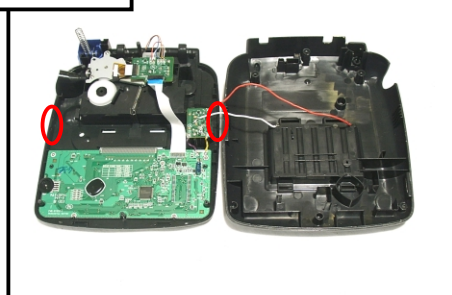
- * Pressing the ESC button returns to the main menu during the diagnostic program.
- * Pressing the SET button returns to the main menu when any of the test result turns out NG.

5. DISASSEMBLY

1. Remove the TAPE CASSETTE, the battery cover and the battery.
2. Remove the 7 screws and then the LOWER PANEL.



Hook positions



PCB ASSY (GY032-3)

To motor

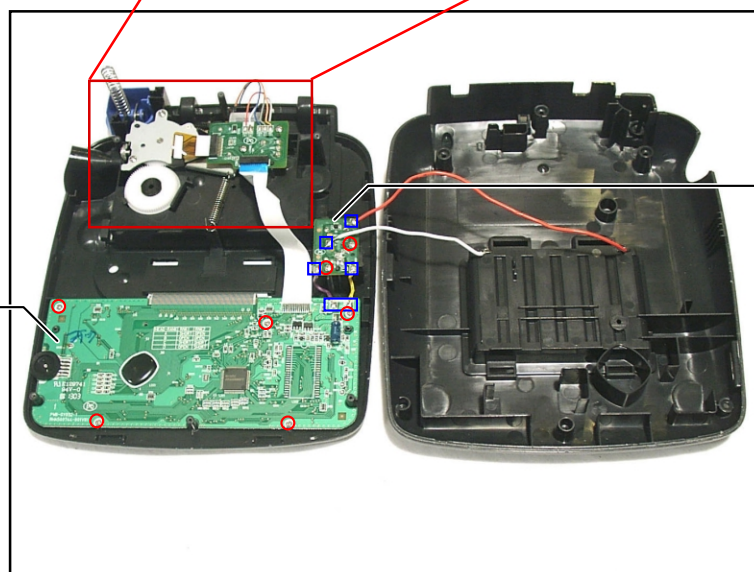
To PCB ASSY (GY032-3)

PCB ASSY (GY032-2)

Conector (to GY032-1)

Conector (to CHASSIS ASSY)

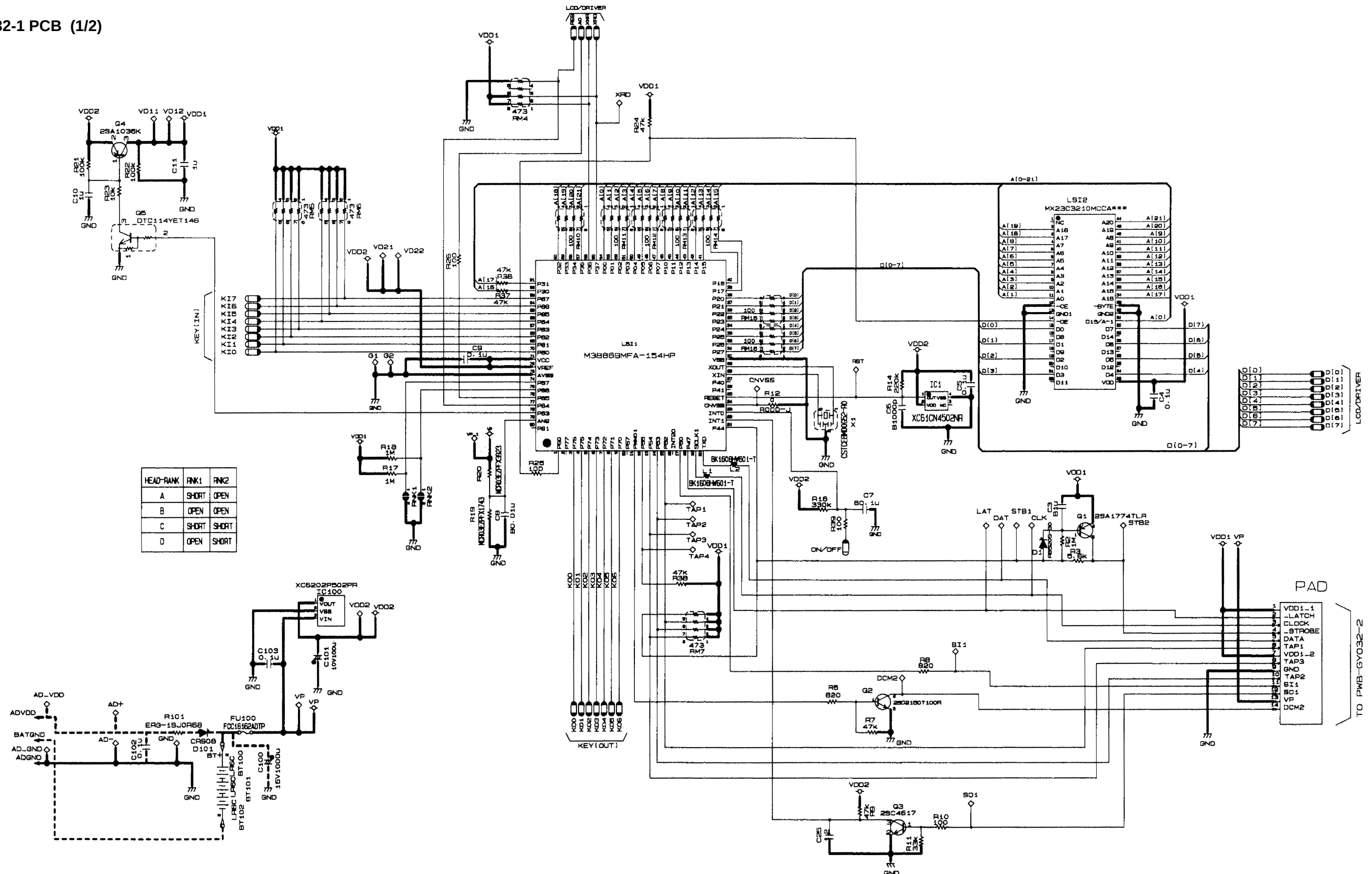
PCB ASSY (GY032-1)



PCB ASSY (GY032-4)

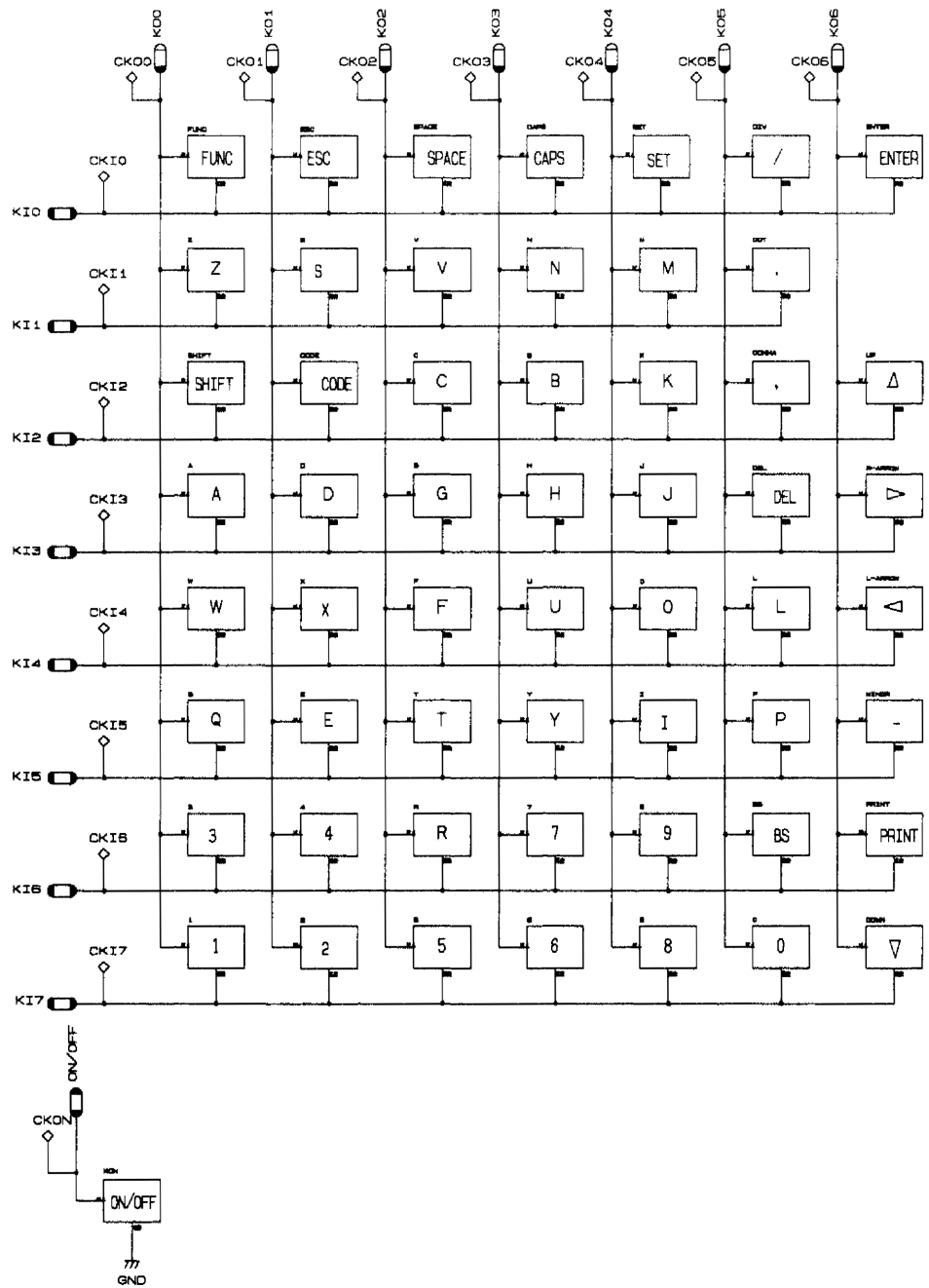
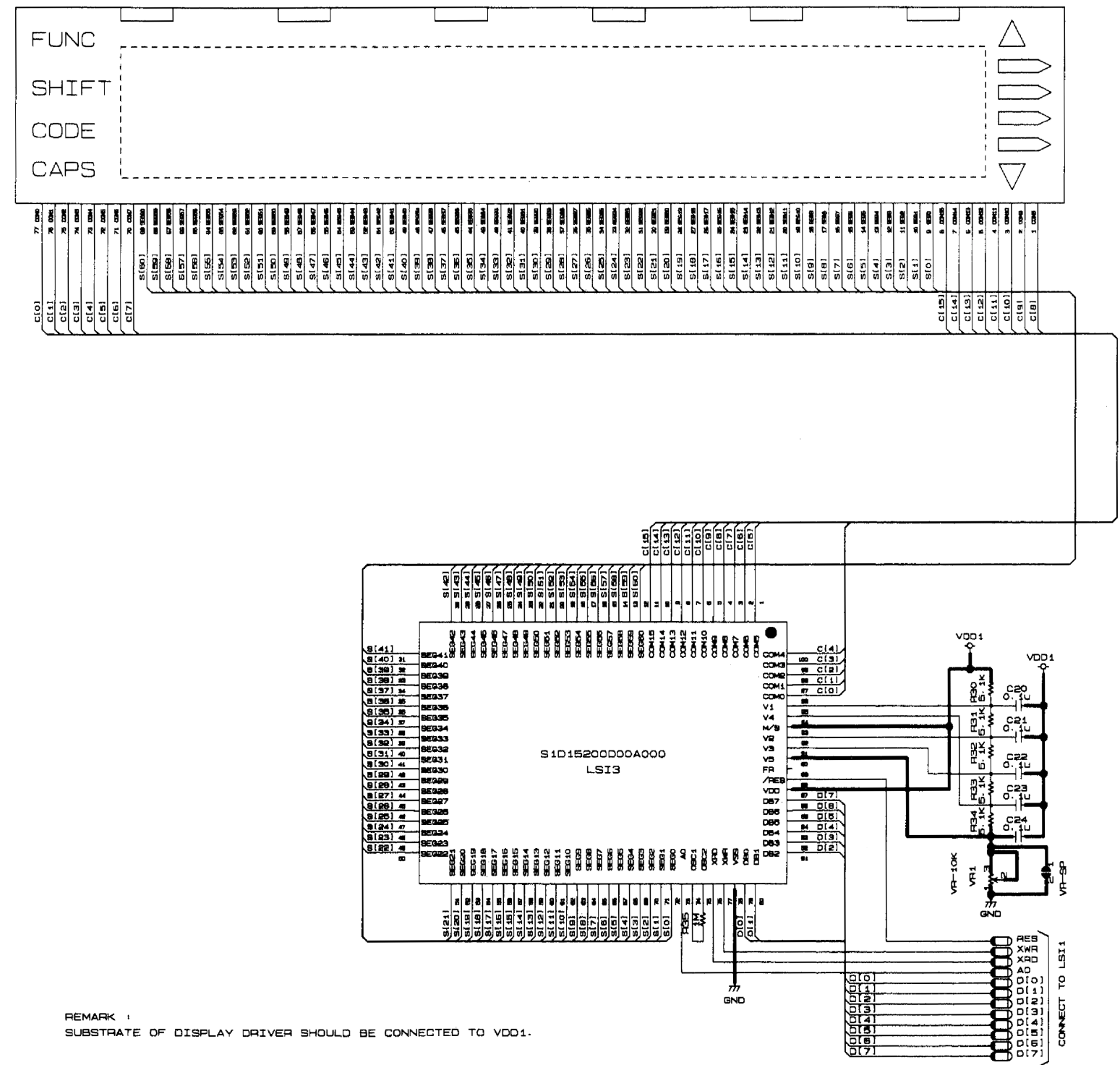
6. SCHEMATIC DIAGRAMS

GY032-1 PCB (1/2)

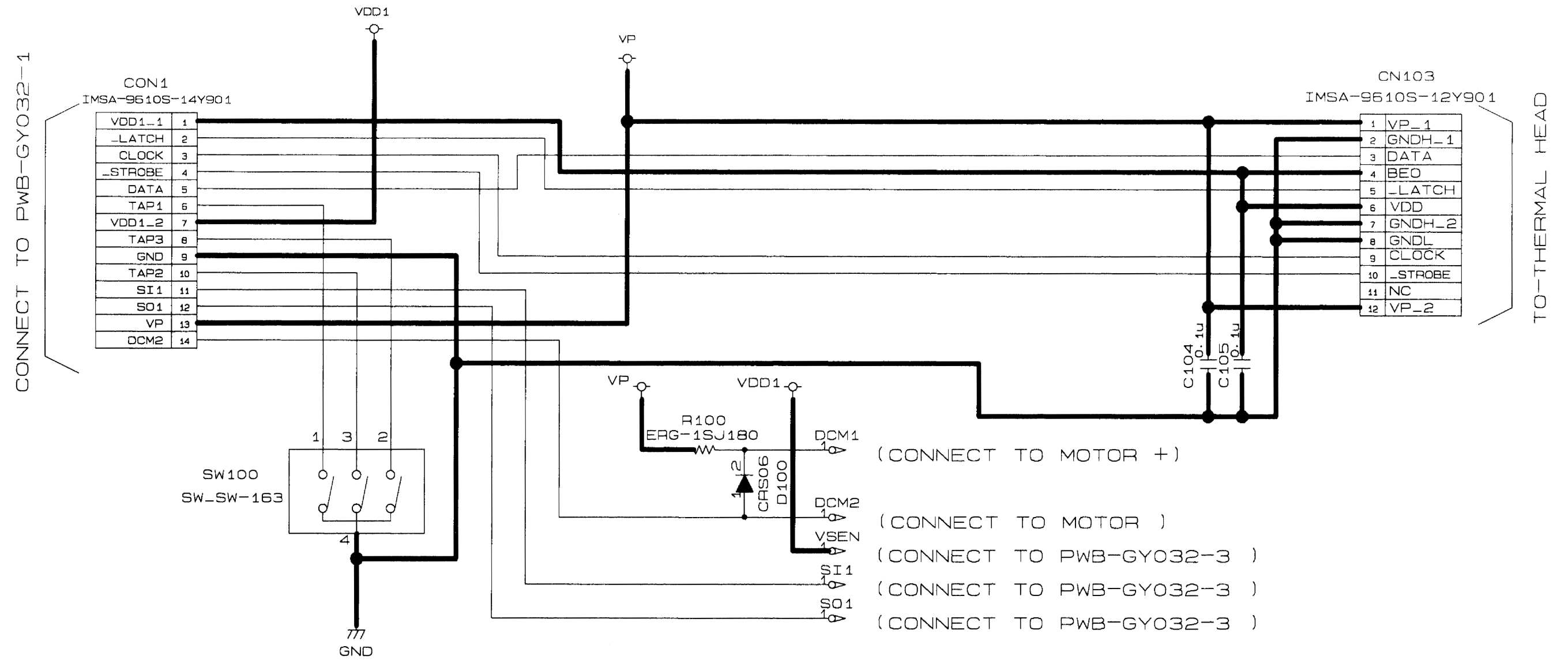


- REMARK :
- 1) ALL THE RESISTOR PADS OF R36, R37, RM10...RM16 SHOULD BE SHORT CIRCUIT.
 - 2) THE PARTS WHICH WERE CONNECTED WITH DOTTED LINE PRESENTED IN PWB-4 OR BATTERY BOX.
 - 3) C25 IS NOT NECESSARY.
 - 4) LSI2 AND C4 ARE NOT NECESSARY FOR THIS MODEL.

GY032-1 PCB (2/2)

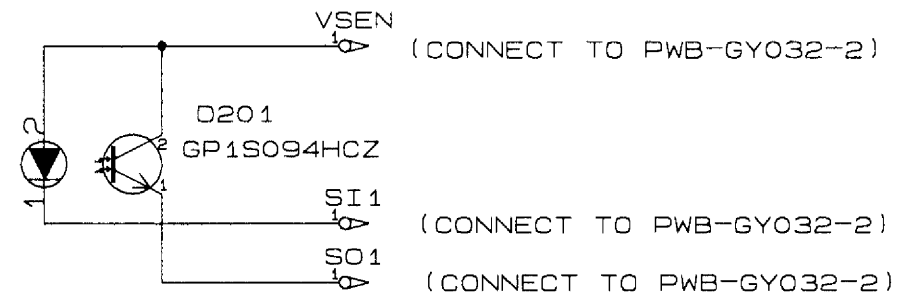


GY032-2 PCB

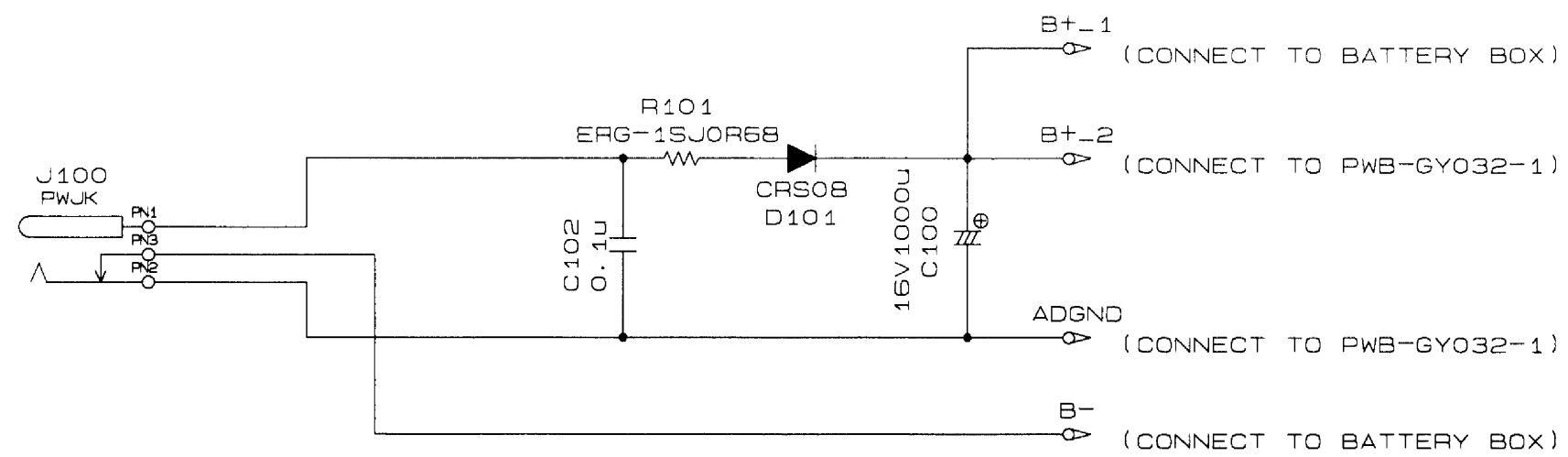


REMARK :
VDD1_1 AND VDD1_2 OF CONNECTOR WERE CONNECTED TO VDD1 IN PWB-GY032-1.

GY032-3 PCB



GY032-4 PCB



7. PARTS PRICE LIST

N	Item	Code No.	Parts Name	Specification	Applicable	Q	PRICE CODE	R
UPPER CASE ASSY								
N	1	1012 2310	CASE/UPPER	RHA500725-001V01	Common	1	AQ	C
N	2	1012 2311	BUTTON/CUTTER	RHA500728-001V01	Common	1	AB	C
	3	1005 7609	SWITCH/HEAD	A343943-1	Common	1	AA	X
N	4	1012 2312	HOLDER/SWITCH	RHA500726-001V01	Common	1	AB	X
N	5	1005 6230	GEAR/A	A343902-1	Common	1	AA	X
N	6	1012 8576	RUBBER/KEY	RHA500727-001V02	Common	1	AV	X
N	7	1009 7619	CUSHION/A	RJA510524-001V01	Common	1	AA	X
N	8	1012 2313	SPRING/HEAD	RHA500780-001V01	Common	1	AA	X
N	9	6407 2930	SCREW/PAN/TAPPING	A310044-39	Common	5	AA	X
	10	1010 2278	SCREW/PAN/BIND	S-BDB0-2X6NI	Common	10	AA	X
N	11	1013 0446	CHASSIS ASSY	TK-RHA500750*001	Common	1	CG	B
N	12	1013 0447	MOTOR ASSY	TK-RHA500735*001	Common	1	AU	B
N	13	1013 0448	SCISSORS SUBASSY	TK-RHA500747*001	Common	1	NA	B
N	14	1005 7364	PLATE/CLUTCH	A343972-1	Common	1	AA	X
N	15	1005 7363	REEL/TOP	A343973-1	Common	1	AA	X
N	16	1005 6231	REEL/GEAR	A343894-1	Common	1	AA	X
	17	6400 9760	WASHER/CUT/C	A412353-3		1	AA	X
N	18	1005 7629	CLUTCH/FELT	A445694-1	Common	1	AA	X
	19	6400 9730	SPRING/CLUTCH	A412352-1		1	AA	X
	20	6400 9720	WASHER/SPRING	A412351-1	Common	1	AA	X
N	21	1013 0449	PCB ASSY/GY032-1	TK-RHA500739*001	Common	1	BY	A
N	22	1013 0450	PCB ASSY/GY032-2	TK-RHA500740*001	Common	1	AU	B
N	23	1013 0451	PCB ASSY/GY032-3	TK-RHA500741*001	Common	1	AH	B
N	24	1013 0452	PCB ASSY/GY032-4	TK-RHA500752*001	Common	1	AM	B
N	25	1011 6338	PIN/SCISSORS	A414873A-2	Common	1	AB	X
N	26	1012 7299	CUSHION	RHA500900-001V01	Common	4	AA	X
N	27	1012 7300	TAPE/I	RHA500901-001V01	Common	2	AA	X
LOWER CASE ASSY								
N	28	1012 2314	CASE/LOWER	RHA500730-001V01	Common	1	AP	C
	29	1002 4234	PLATE/BATTERY/A	A343430-1	Common	1	AA	X
	30	1002 4235	PLATE/BATTERY/B	A343431-1	Common	1	AA	X
	31	1002 4239	PLATE/BATTERY/C	A343432-1	Common	3	AA	X
	32	1002 4236	PLATE/BATTERY/D	A343433-1	Common	2	AA	X
COMPONENTS								
N	33	1012 2305	COVER/BATTERY	RJA511136-002V01	Common	1	AB	C
N	34	1012 2306	SPRING/CUTTER	RHA500734-001V01	Common	1	AA	C
N	35	1013 0444	PLATE/DISPLAY	RHA500433-001V01	Common	1	AC	C
N	36	1012 8577	PLATE/CASSETTE	RHA500732-001V02	Common	1	AA	X
N	37	1012 1667	RUBBER/FOOT	RHA500781-001V01	Common	2	AA	X
N	38	1012 2307	COVER/CASSETTE/A	RHA500731-001V01	USA, Canada	1	AM	C
N	39	1012 2308	COVER/CASSETTE/B	RHA500731-002V01	Except USA, Canada	1	AM	C
N	40	1012 2309	PIN/CASSETTE	A344061-004V02	Common	1	AA	X
N	41	1007 0706	SPRING/CASSETTE	A445790-1	Common	1	AA	X
N	42	1012 2507	CAP/ADAPTOR	A443674A-5	Except USA, Canada	1	AA	C
N	43	1013 0445	SCREW/TAP/BIND	S-BDB0-2.3X8(BC)	Common	7	AA	X
N	44	1012 1669	LABEL/A	A342408-024V03	Common	1	AA	X
	45	1006 1992	LABEL/B	A344033-1	Common	1	AA	X

Notes: N- New parts

Q-Quantity used per unit

R-Rank

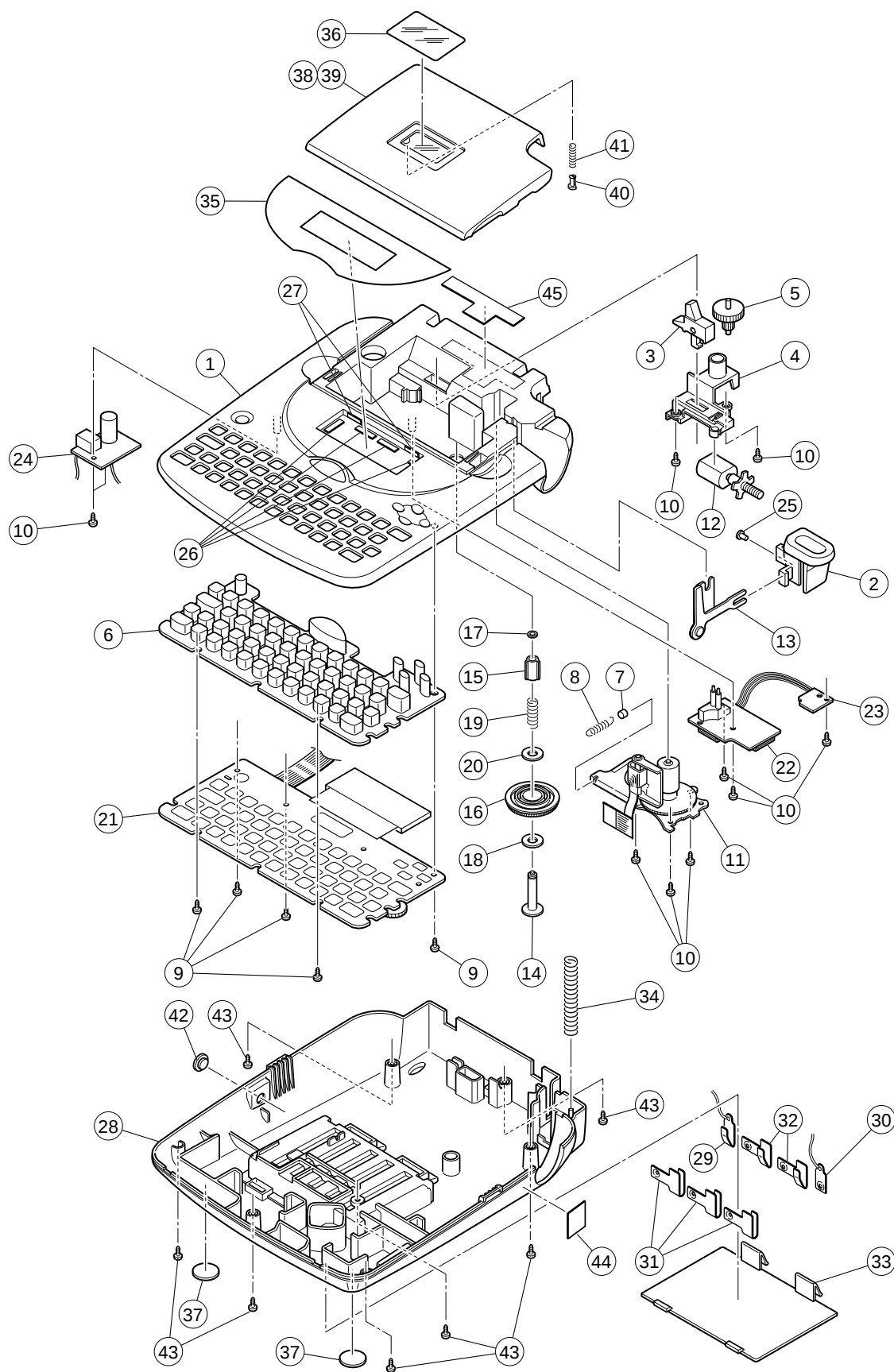
R-A: Essential

B: Stock recommended

C: Others

X: No stock recommended

8. EXPLODED VIEW



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