

SERVICE MANUAL & PARTS LIST

(without price)

KL-750B (ZX-205B)

FEB. 2000



KL-750B

CASIO®

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1. SPECIFICATIONS

Character Types

Alpha (English and other languages): 64
Numbers: 10
Symbols: 41

Display

Type: Liquid crystal display
Columns: 4
Character matrix: 5×7 -dot

Printing

Type: Thermal transfer
Speed: Approximately 6.76 mm/second
Width: 4 mm (6 mm tape) or 8 mm (9 mm, 12 mm, and 18 mm tapes)
Character matrix: 48×48 -dot
Character fonts: Sans-serif
Text effects: Shading, Underline, Box
Character styles: Normal, Outline, Shadow, Raised
Character sizes: 1×1 , 1×2 , 1×3 , 2×1 , 2×2 , 2×3
Number of lines: 1 (6 mm tape); 1 or 2 (other tapes)
Frames: Three types

Memory

Text: Up to approximately 126 characters (total storage for AREA 1 and AREA 2)

General

Power supply: Eight AA-size batteries or optional AD-A95100 AC adaptor
Battery life: Manganese Batteries Approximately 1 tape cartridge (continuous printing)
Alkaline Batteries Approximately 2.5 tape cartridges (continuous printing)
Power consumption: 9 W
Auto power off: Approximately six minutes after last key operation
Dimensions: $44.6 \text{ (H)} \times 174 \text{ (W)} \times 212 \text{ (D)} \text{ mm}$
($1 \frac{1}{4}'' \text{ H} \times 6 \frac{7}{8}'' \text{ W} \times 8 \frac{3}{8}'' \text{ D}$)
Weight: 452 g (1 lbs)
Ambient temperature: $10^\circ\text{C} \sim 35^\circ\text{C}$ ($50^\circ\text{F} \sim 95^\circ\text{F}$)

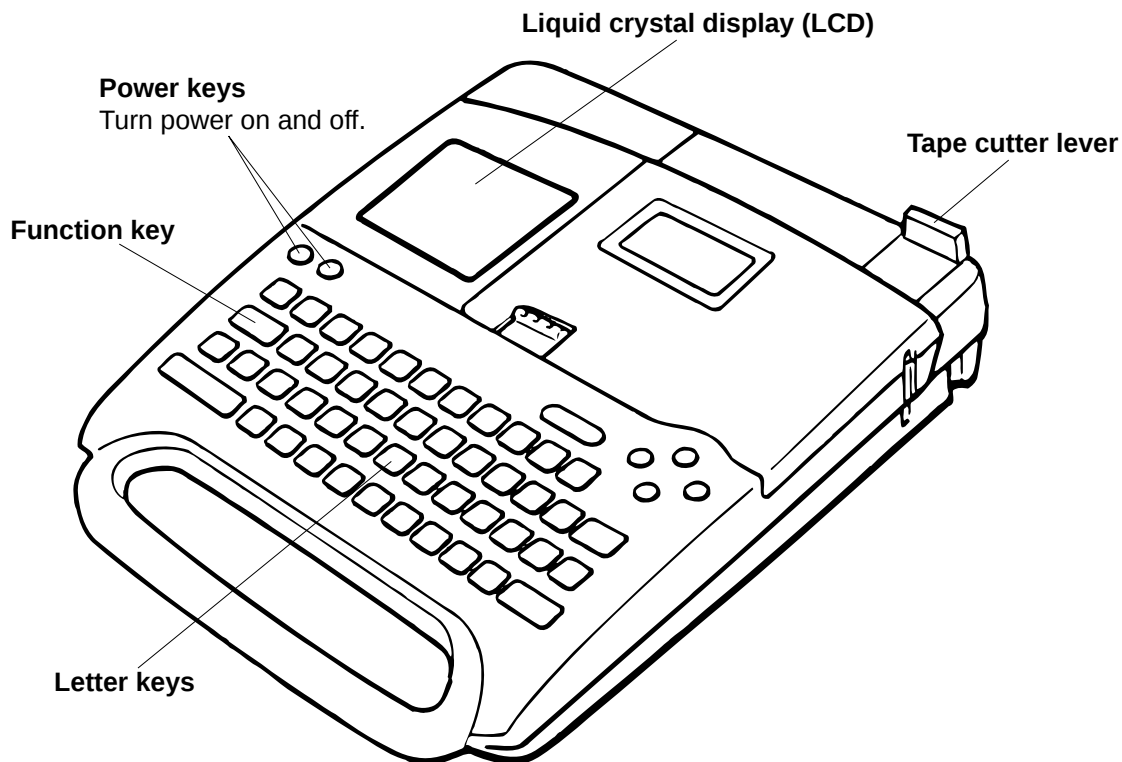
Threshold of voltage detection

Low battery: Vbat+ = 6.2 ~ 6.25 V
Forced power off: Vbat+ = 4.50 V

Note: Vbat+ is the voltage of BT+ pad in Main PCB. Refer to page 11 in this manual.

2. GENERAL GUIDE

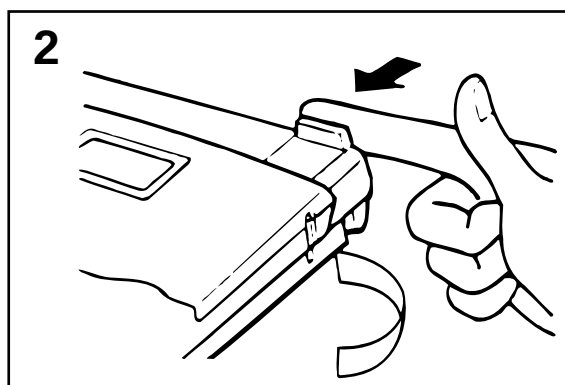
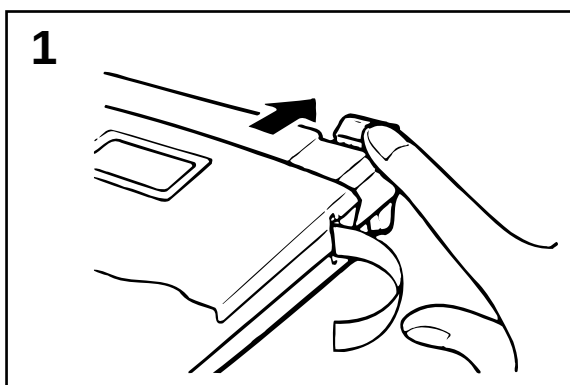
Front



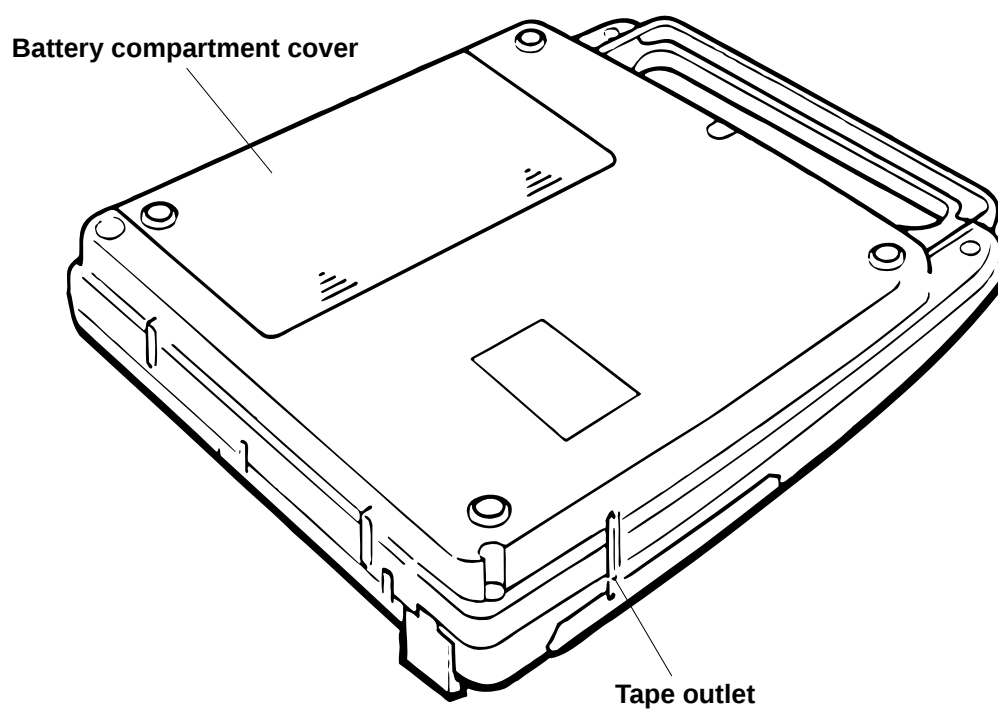
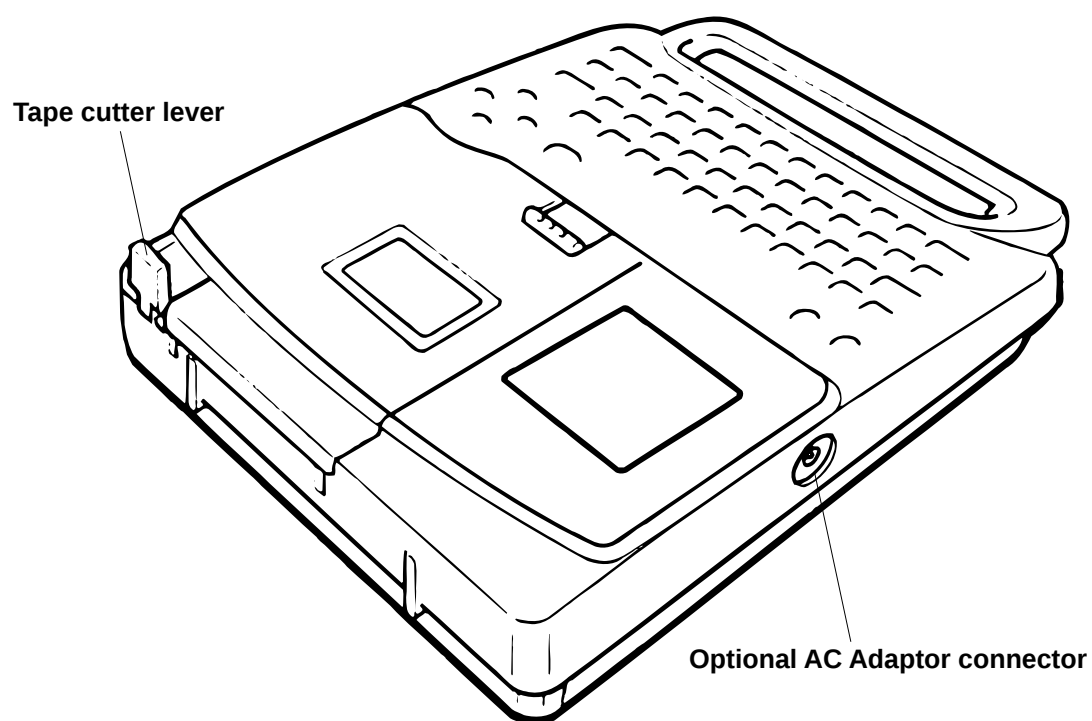
Tape Cutter Operation Precaution

Note the following important precautions when operating the tape cutter lever.

1. When operating the tape cutter lever, make sure you do not press it too hard.
2. Always return the tape cutter lever by hand back to its original position after the tape is cut.



Back/Left Side



Replacing Batteries

A handy low battery power indicator lets you know when battery power is getting too low for proper operation. The message “BATT” appears on the display if battery power is low when you perform any of the following operations.

- Turn power on
- Execute a print operation

Whenever the “BATT” message appears, press **SET** to clear it from the display. You should still be able to perform some Label Printer operations, but some power intensive operations (like printing) may become impossible if battery power is too low. In any case, you should replace batteries as soon as possible or switch to the AC adaptor as soon as possible after the “BATT” message appears.

Important!

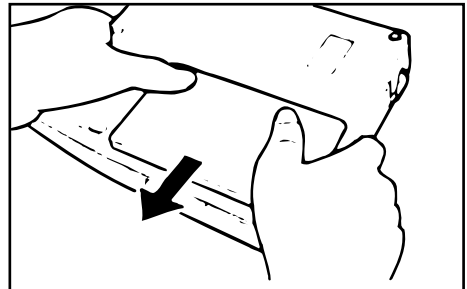
- All data stored in memory is deleted whenever batteries go dead and when you replace batteries. Be sure to keep written backup copies of all important data (text and documents).
- Batteries can burst or leak and damage your unit if you do not use them correctly. Note the following important points.
- Be sure that the plus (+) and minus (–) sides of each battery are facing correctly.
- Never mix batteries of different types
- Never leave dead batteries in the Label Printer.
- Remove the batteries if you do not plan to use the Label Printer for a long time.
- Replace the batteries in accordance with the battery life marked on the side of the battery.

Warning!

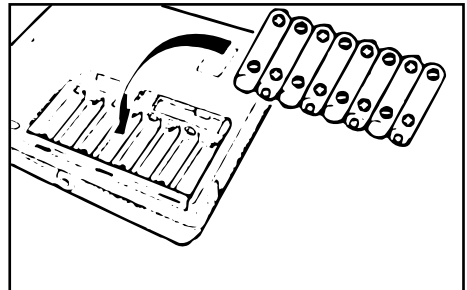
- Never use recharged batteries with the unit.
- Do not expose batteries to direct heat, do not short circuit them, and do not try to take them apart.
- Be sure to replace the batteries in accordance with the battery life printed on the side of the battery itself.

To replace the batteries

1. Turn power off.
- If you are using the optional AC adaptor for power, you should also unplug it from the Label Printer.
2. Open the battery compartment cover on the back of the Label Printer by sliding it in the direction indicated by the arrow.
3. Remove all eight of the old batteries.



4. Load a set of eight new batteries into the battery compartment, making sure that their positive (+) and negative (–) ends are facing in the correct directions.
5. Replace the battery compartment cover.



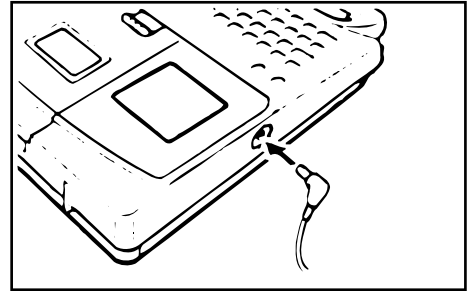
AC Adaptor

Note the following important precautions when using an AC adaptor to power your Label Printer.

- Use only a genuine CASIO AD-A95100 AC adaptor with the same voltage rating as the household current in your area. Using a wrong adaptor can damage your Label Printer.
- Be sure to turn the Label Printer off before you connect the adaptor. Do not turn power on until the adaptor is connected to the Label Printer and plugged into an AC outlet.
- Be sure to unplug the AC adaptor from the AC outlet whenever you are not using the Label Printer.

To connect the AC adaptor

Connect the adaptor to the Label Printer as illustrated nearby. Plug the other end into a standard household AC outlet.



Auto Power Off Function

If you do not perform any key operation for about six minutes, the Label Printer automatically turns power off. To restore power, press **ON**.

Tape Cartridges

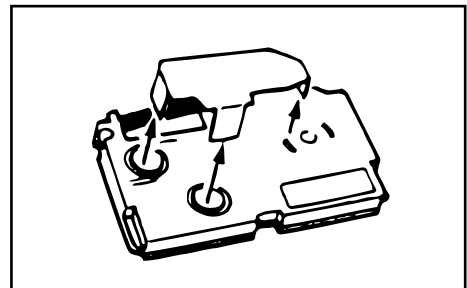
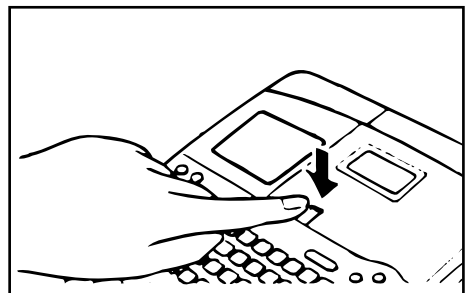
Use the procedures described below to load a tape cartridge into the Label Printer. After you load the tape cartridge, be sure to use the procedure described under "Tape Width Specification" on page 7 to tell the Label Printer what is the width of the tape you are using.

Important!

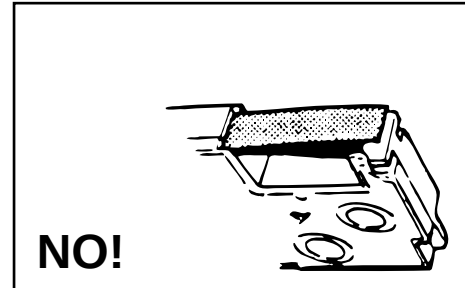
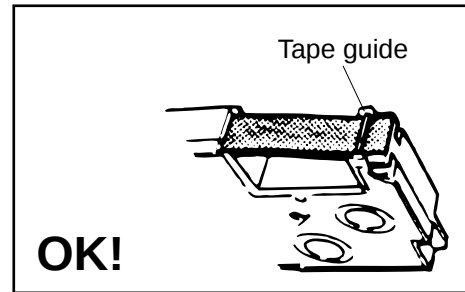
- Never try to push the tape back into the cassette. Once tape is out of the cassette, there is no way to wind it back in. Trying to do so can cause operational problems with the Label Printer.
- The following are the tape widths that can be used with this printer: 6mm, 9mm, 12mm, 18mm.

To load a tape cartridge

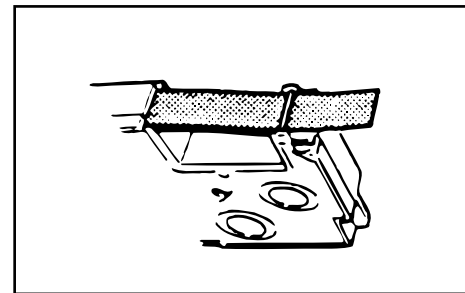
1. Make sure that the Label Printer is turned off.
2. Open the tape cartridge compartment cover.
 - If there is a cartridge already in the Label Printer, remove it by grasping the cartridge on both sides with your thumb and forefinger, and lift straight up.
3. Remove the stopper from a new tape cartridge and check to see that the tape is ready to use.



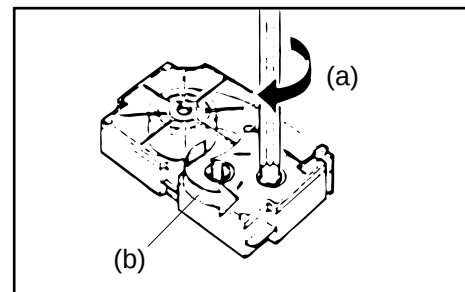
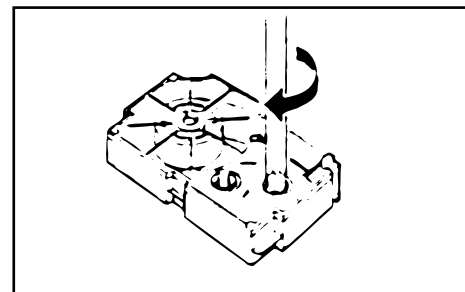
- Make sure that the tape is under the tape guide and that it is not bent or twisted.



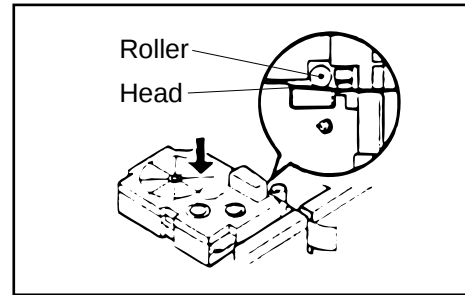
- Make sure that the tape does not extend too far past the tape guide. If it does, cut off the end with a pair of scissors.



4. Use a pencil or some other thin object to take up slack in the ink ribbon as shown in the illustration. Note that the tape does not move at this time.
- If the ink ribbon is slack when you load it into the Label Printer, it can break or cause some other problem.
 - Be sure to turn the ink ribbon take up spool only in the direction indicated by the arrow (a).
 - Turn the spool until the other spool (b) starts turning in the direction noted by the arrow. This indicates there is no slack in the ribbon.



5. Load the tape cartridge into the Label Printer, making sure that the tape and ink ribbon pass between the head and roller.
6. Close the tape cartridge compartment cover.



7. Turn on Label Printer power and press **FUNCTION** and then **PRINT (FEED)** two or three times to make sure that the tape comes out without any problem.
- If the tape does not come out normally, turn off power and start again from step 1 above.

Tape Width Specification

Important!

- When using 6 mm tape, using certain character sizes can cause characters to run off the top or bottom of the tape. Be sure to use the following procedure to tell the Label Printer when you are using 6mm tape.

To specify 6 mm tape width

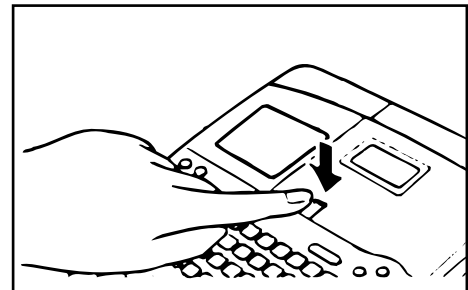
1. Turn power on.
2. Press **FUNCTION** and then **SPACE** (6 mm).
3. Press **◀**, **▶**, **▲** or **▼** to change the setting shown on the display between ON (6 mm tape) and OFF (other tape width).
4. When the tape width setting is the way you want it, press **SET** to register it.
- The tape width you set remains in effect until you change it, press **ON** or reset the Label Printer's memory.

Replacing the Tape Cutter Blade

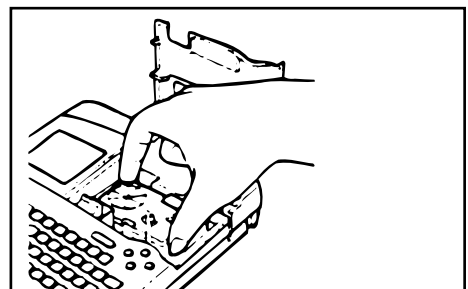
The tape cutter blade is designed to provide approximately 3,000 cuts. Use the following procedure to replace the blade whenever it starts to cut poorly.

To replace the tape cutter blade

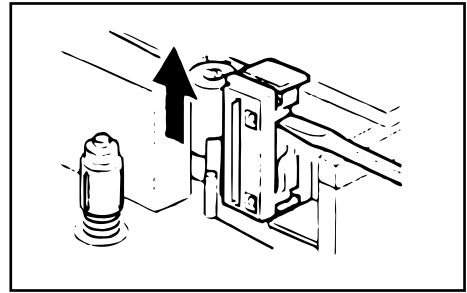
1. Make sure that the Label Printer is switched off.
2. Open the tape cartridge compartment cover.



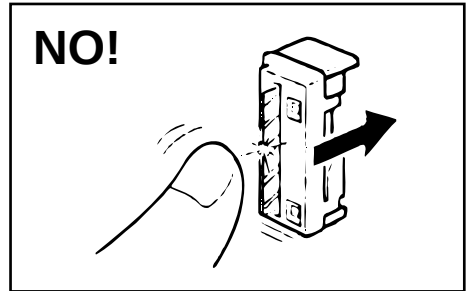
- If there is a cartridge already in the Label Printer, remove it by grasping the cartridge on both sides with your thumb and forefinger, and lift straight up.



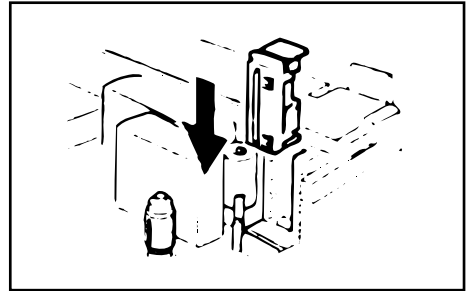
3. Use a thin, pointed object to lift the yellow cutter cartridge out of the Label Printer as shown in the illustration.



- The tape cutter blade comes out of the cutter cartridge if you press on the front of the cartridge. Be sure to take care to avoid cutting your fingers on the blade.



4. Install a new cutter cartridge by sliding it along the groove provided in the Label Printer.
5. Replace the compartment cover.

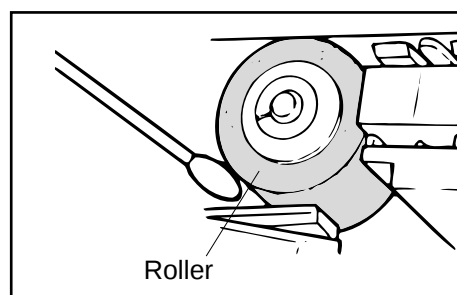
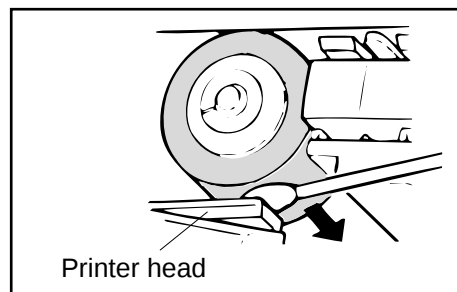


3. CLEANING THE PRINTER HEAD AND ROLLER

A dirty printer head and roller can result in poor printing quality. If you have problems with print quality, use the following procedure to clean the printer head and roller.

To clean the printer head and roller

1. Make sure the Label Printer is turned off.
2. Press the tape cartridge compartment cover release and open the compartment cover.
3. Remove the tape cartridge.
4. Use a cotton swab dipped in alcohol to clean the printer head and roller as shown in the illustration.



5. Replace the tape cartridge and close the compartment cover.

4. RESET OPERATION (INITIALIZING)

Initial Power On Settings

The following are the initial settings of the Label Printer whenever you turn it power on.

Item	Power On
SIZE	JUST (2 × 2)
EFFECT	CANCEL
STYLE	NORMAL
MIRROR	OFF
M-FEED	NO
6 mm	OFF

Initializing the Label Printer

If you experience serious malfunction of the Label Printer or if operation fails completely, try performing the following operation to initialize the printer.

Important!

- Initializing the Label Printer deletes all memory contents. Make sure you have a back-up copy of text stored in memory if you need it.

To initialize the Label Printer

- Turn power off.
- While holding down the **PRINT** and **ESC** keys, press **ON** to turn power on.
- Keeping **PRINT** and **ESC** held down, release the **ON** key only.
 - This prompt confirms whether or not you want to initialize the Label Printer.
- Press **SET** to initialize the Label Printer or **ESC** to abort the reset operation.
 - The following table shows the initial settings.

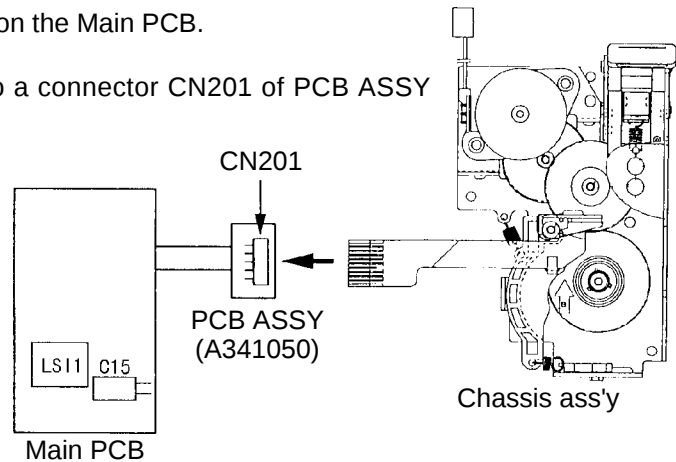


Item	Power On
Display	Cleared
Memory	Cleared
SYMBOL	,
EFFECT	CANCEL
STYLE	NORMAL
M-FEED	NO
MIRROR	OFF
MEMO	STR?
DENSITY	3
6 mm	OFF

5. PRECAUTIONS

To prevent damage of the thermal head caused by static electricity when assembling the chassis ass'y into the unit, the following steps must be followed;

1. Turn the power switch off.
2. Discharge the capacitor C15 (2200 μ F) on the Main PCB.
3. Connect the FPC of chassis ass'y into a connector CN201 of PCB ASSY (A341050).
4. Assemble the chassis ass'y.
5. Turn the power switch on.

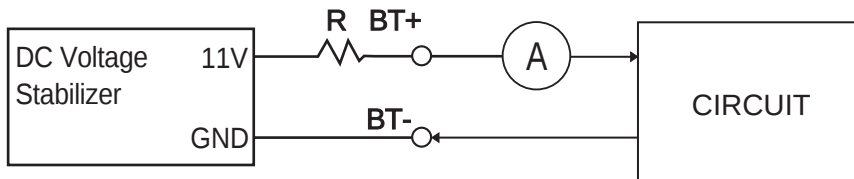


6. MEASUREMENT

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

Input voltage: 11.0V $\pm$ 2%

■ The following resistor **R** (1 Ω / 2W) is necessary for these measurements.



Current:

Condition	Current value	
	Typical	Maximum
After turning power on	11 mA	20 mA
At the time of printing with PR2 of Diagnostic Program	600 mA	700 mA
After turning power off	60 μ A	80 μ A

Interior Voltage (Refer to SCHEMATIC DIAGRAM):

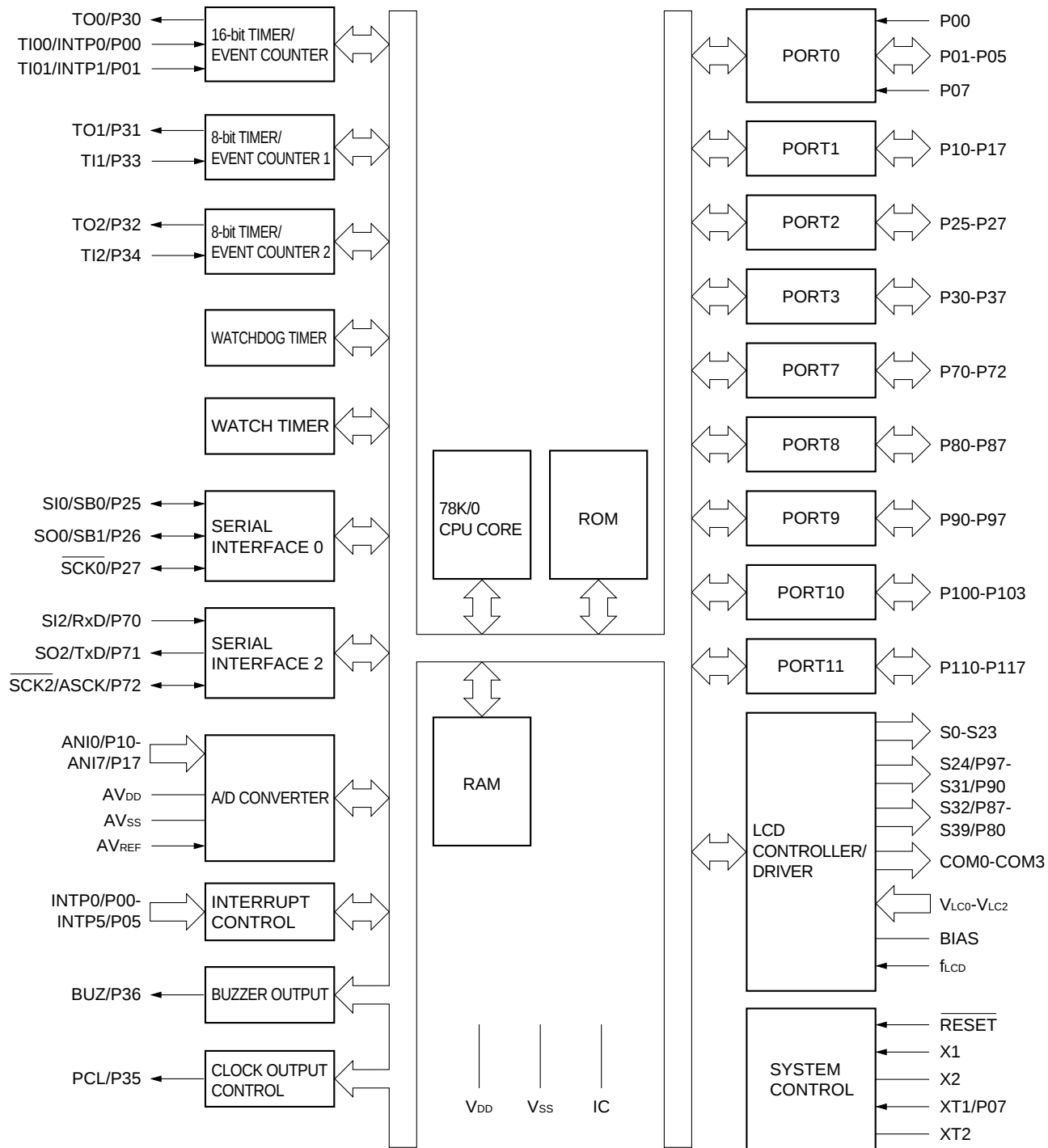
Condition	Voltage
ICC=30 mA	VCC=4.875~5.125 V
IP=300 mA	VP=10.78~11.22 V

7. LSI PIN FUNCTION

CPU + ROM + RAM (UPD780308GC): LSI1

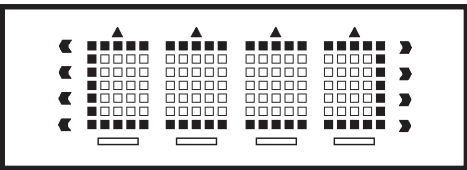
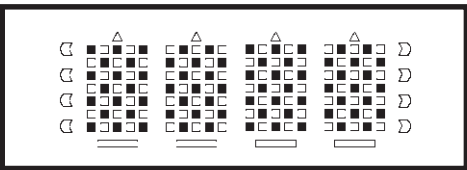
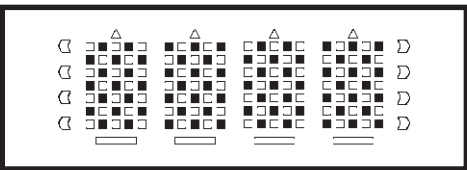
Pin No.	Name	I/O	Function
1	ANT1	O	Timing signal detecting low battery voltage
2~5	P12~P15	I/O	I/O port(not use)
6~7	P16~P17	I	Setting for thermal head rank
8	AVDD	I	Analog power supply for A/D converter of LSI1
9	AVREF	I	Analog reference voltage for A/D converter of LSI1
10	P100	O	Control signal for analog reference voltage
11	P101	I/O	I/O port(not use)
12	VSS	—	Digital ground for LSI1
13~14	P102~P103	I/O	I/O port(not use)
15~21	P30~P36	O	Key common signals(KO0~KO6)
22	P37	I/O	I/O port(not use)
23~26	COM0~COM3	O	Common signals for LCD
27	BIAS	—	LCD power supply bias control
28	VLCD0	I	LCD power supply
29	VLCD1	I	LCD power supply
30	VLCD2	I	LCD power supply
31	VSS	—	Digital ground for LSI1
32~71	S0~S39	O	Segment signals for LCD
72	SI0	O	Latch signal for thermal head
73	SO0	O	Serial data signal for thermal head
74	SCK0	O	Clock pulse for thermal head
75	P70	O	Strobe signal for thermal head
76~77	P71~P72	I/O	I/O port(not use)
78	IC	—	Internally connected
79	X2	O	Main system clock
80	X1	I	Main system clock
81	VDD	I	Power supply for LSI1(VCC)
82	XT1/P07	I	Subsystem clock(not use)
83	XT2	O	Subsystem clock (not use)
84	RESET	I	System reset for LSI1
85	INTP0	I	Power off signal from power switch
86	INTP1	I	Voltage detecting signal for low power(VCC)
87~90	P02~P05	O	Motor drive signals
91~98	P110~P117	I	Key input signals
99	AVSS	—	Analog ground for A/D converter of LSI1
100	ANI0	I	Voltage detecting signal for low battery

8. BLOCK DIAGRAM (LSI1)



9. DIAGNOSTIC PROGRAM

Note: Perform the reset operation after ROM check, because the ROM check break the data stored in RAM.

Check item	Operation	Display	Note
(BOOT)	Press ON key while holding down Z , P and BS keys at the same time.		Main menu
LCD CHECK	Press Ⓥ key.		
	Press SET key.		
	Press SET key.		All dots
	Press SET key.		Checker
	Press SET key.		Reversed checker
	Press SET key.		Main menu
KEY CHECK	Press Ⓥ key twice.		

Check item	Operation	Display	Note
KEY CHECK	Press SET key.		
	Press 1 , 2 , 3 , ... keys in succession.		Press the keys according to what is appeared on the LCD.
	... FUNCTION + PRINT , , ,		
	Press key.		
	Press any key.		Main menu
HEAD RANK CHECK	Press key three times.		
	Press SET key.	For example, 	Check the rank of the thermal head employed in the unit. (RANK = A ~ D) Refer to 26 page.
	Press any key.		Main menu

Check item	Operation	Display	Note
ROM CHECK	Press Ⓥ key four times.	ROM	
	Press SET key.	For example, 9146	Sum check
	Press any key.	ALL	Main menu
PRINT CHECK-1	Press Ⓥ key five times.	PRI1	
	Press SET key.	PRNT	Refer to the following Figure-1
	No operation	ALL	Main menu
PRINT CHECK-2	Press Ⓥ key six times.	PR2	
	Press SET key.	PRNT	Refer to the following Figure-2

Check item	Operation	Display	Note
PRINT CHECK-2	No operation		Main menu

● PR-1 (Normal printing result)

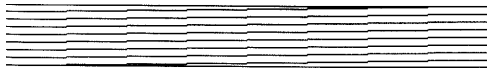


Figure-1

● PR-2 (Normal printing result)



Figure-2

10. MESSAGES

Message	Possible Causes	Action
ERR! * This message appears on the screen for about one second.	• Attempt to input two ↵ marks within the same text. • Attempt to input ↵ mark while 6 mm is specified as the tape width. • Label text containing a ↵ mark was input and then tape width specification was changed to 6 mm. (ERR! message appears when you try to perform a print operation.) • Text that is longer than 5.5 cm when stamp printing is selected. • Attempt to print a stamp or frame while 6 mm is specified for the tape width.	• Use only one ↵ mark. Only two lines of text can be input, so text can contain only one ↵ mark. • Do not use ↵ marks. 6 mm tape can have only one line of text, so text cannot contain any ↵ marks. • Delete the ↵ mark to print on 6 mm tape or switch back to a wider tape. • Shorten the text to be printed and try again. • Change the tape width setting to OFF and try printing the stamp again.
FUL! * This message appears on the screen for about one second.	• Both text memory areas (AREA 1 and AREA 2) already contain text.	• Delete text from one of the text memory areas and then store the new text.
BATT	• Battery power is too low.	• Replace batteries.
ERR!	• Memory data has become corrupted for some reason.	• Initialize the Label Printer.

11. DISASSEMBLY PROCEDURE

1. Remove the tape cartridge.
(Refer to Figure-1)
2. Remove the cutter cartridge by pulling up it, while leaning the tiny lever to the cutter lever slightly.
(Refer to Figure-2)
3. Remove the battery cover (BC), then remove 7 screws (S1).
(Refer to Figure-3)
4. Re-solder 2 wires from Main PCB.
5. Take out the socket (SO1) from the connector (CN202) on PCB ASSY (A341050).
6. Remove 2 screws (S2) holding PCB ASSY (A341050).
7. Take out FPC from the connector (CN201).
8. Remove 3 screws (S4) holding the chassis ass'y.
9. Remove the chassis ass'y.
(Refer to Figure-3 and Figure-4)
10. Peel off the display plate (DP), then peel off LCD (LCD) carefully.
11. Remove 6 screws (S3) holding Main PCB.
12. Remove Main PCB.

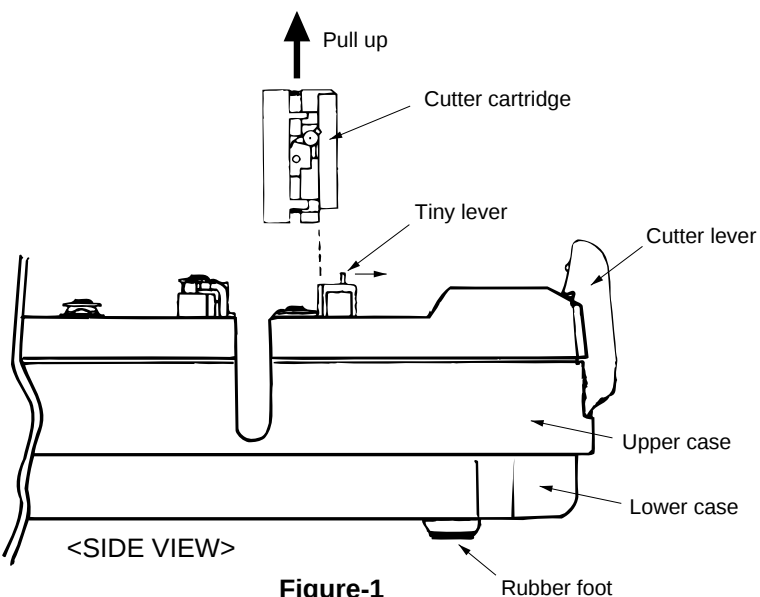


Figure-1

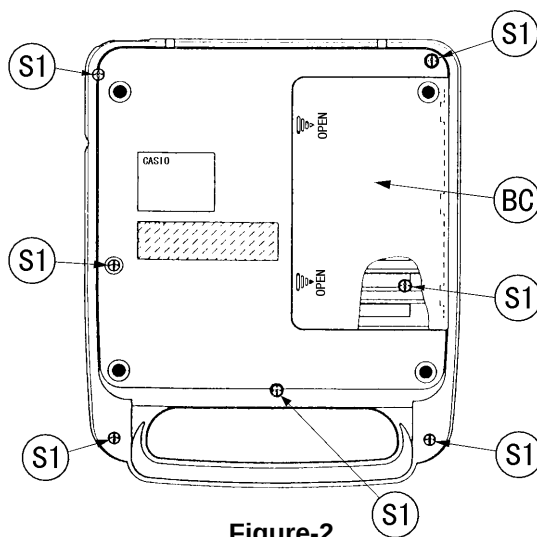


Figure-2

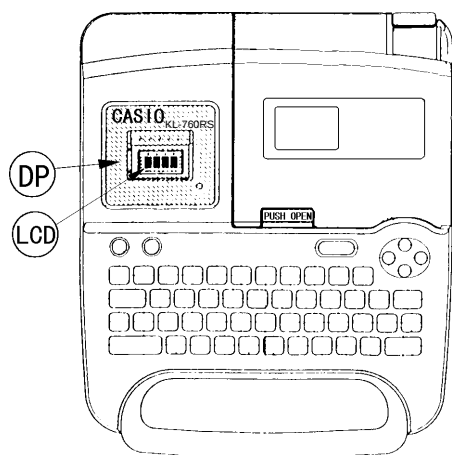


Figure-4

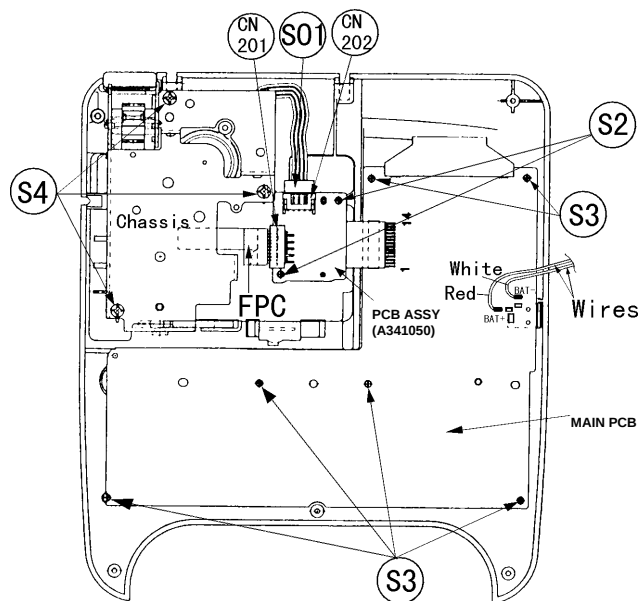
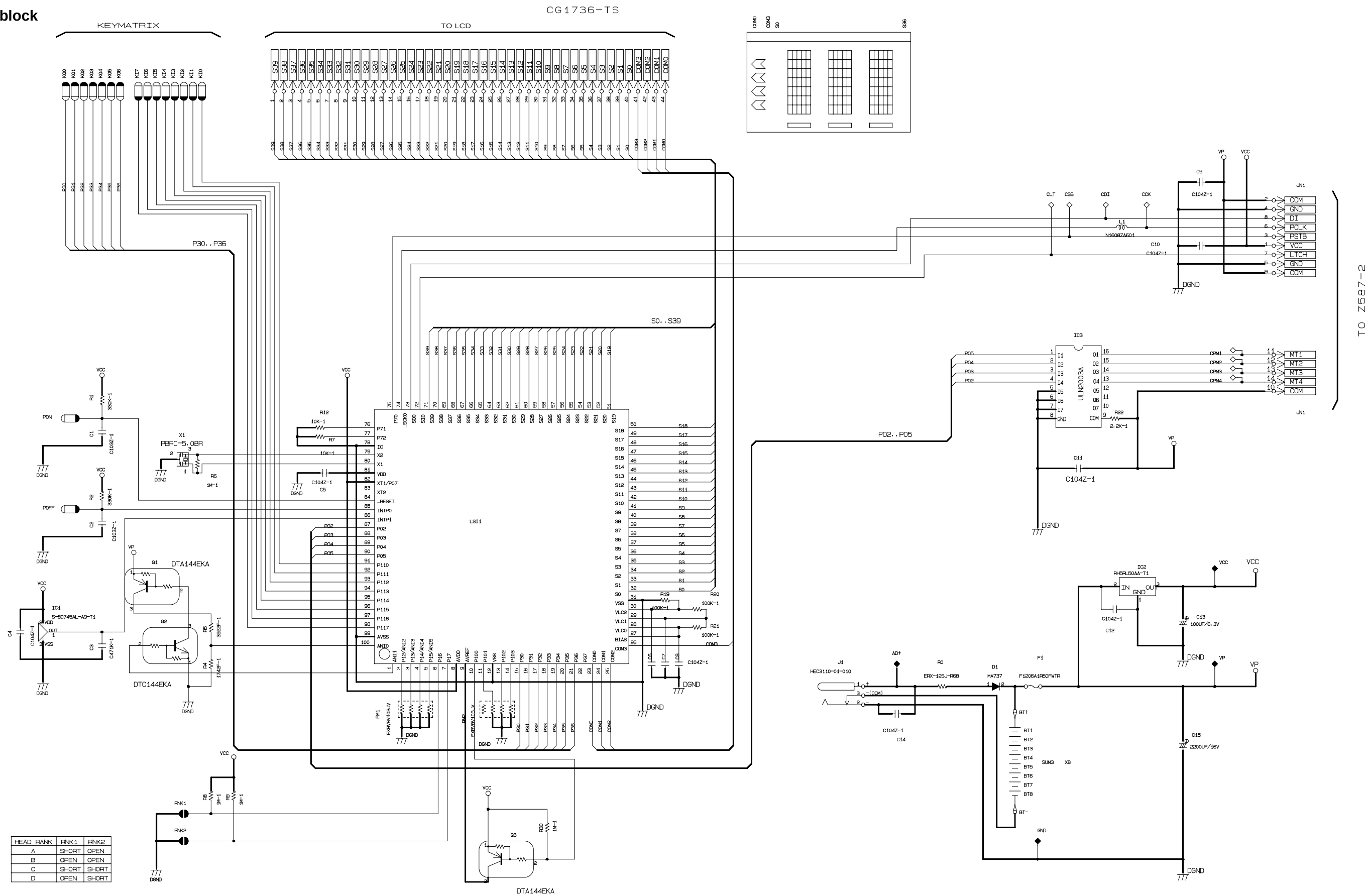


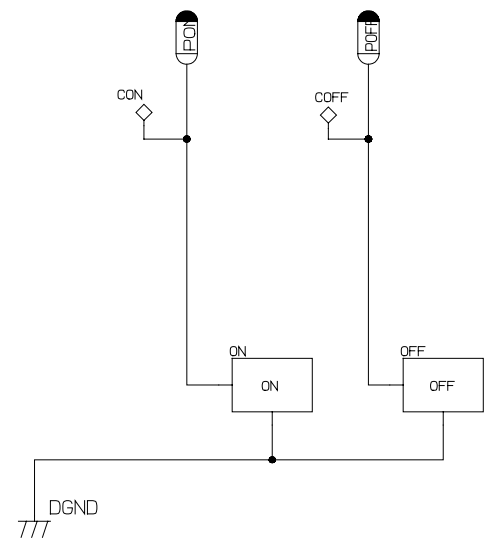
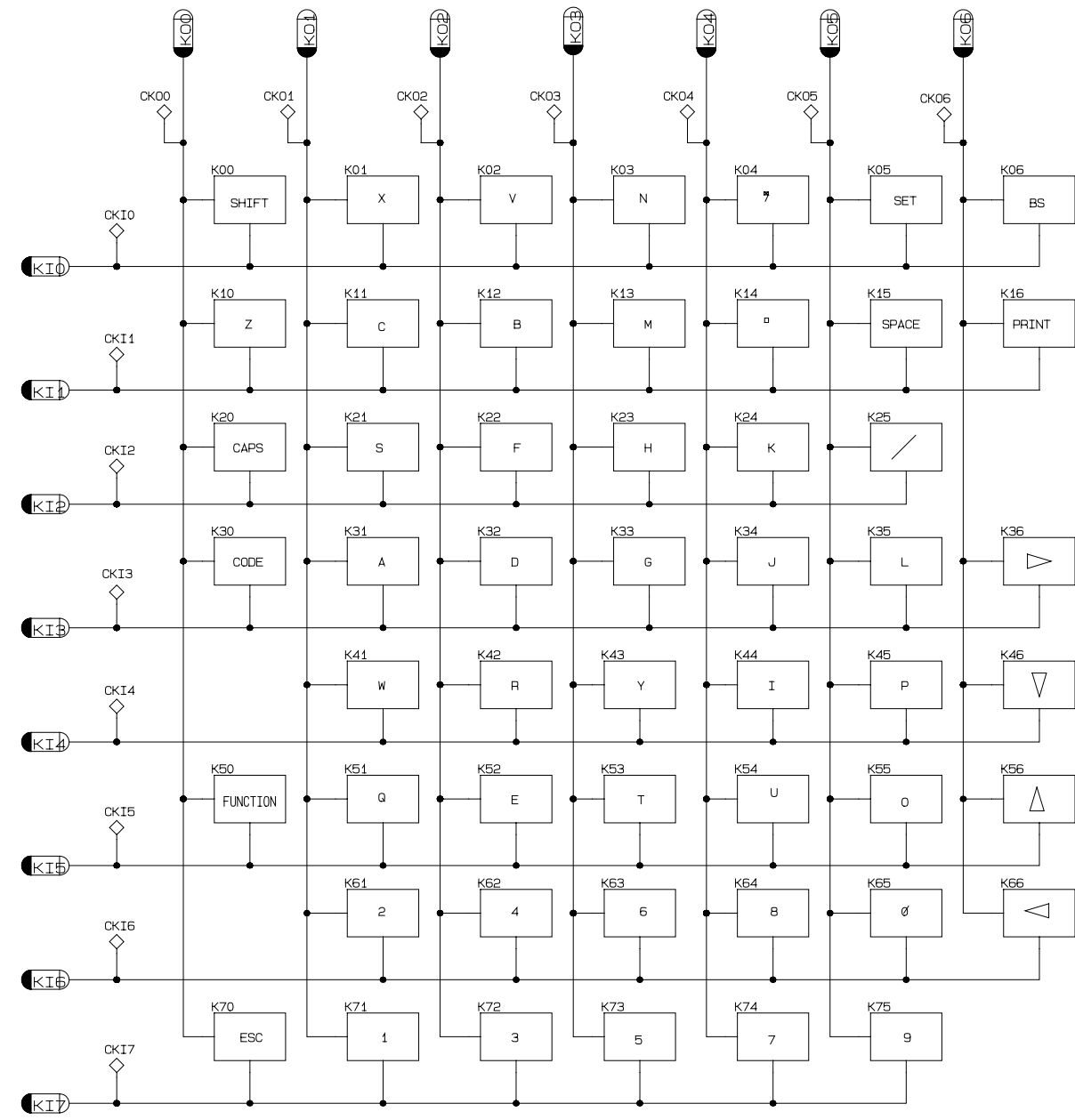
Figure-3

12. SCHEMATIC DIAGRAMS

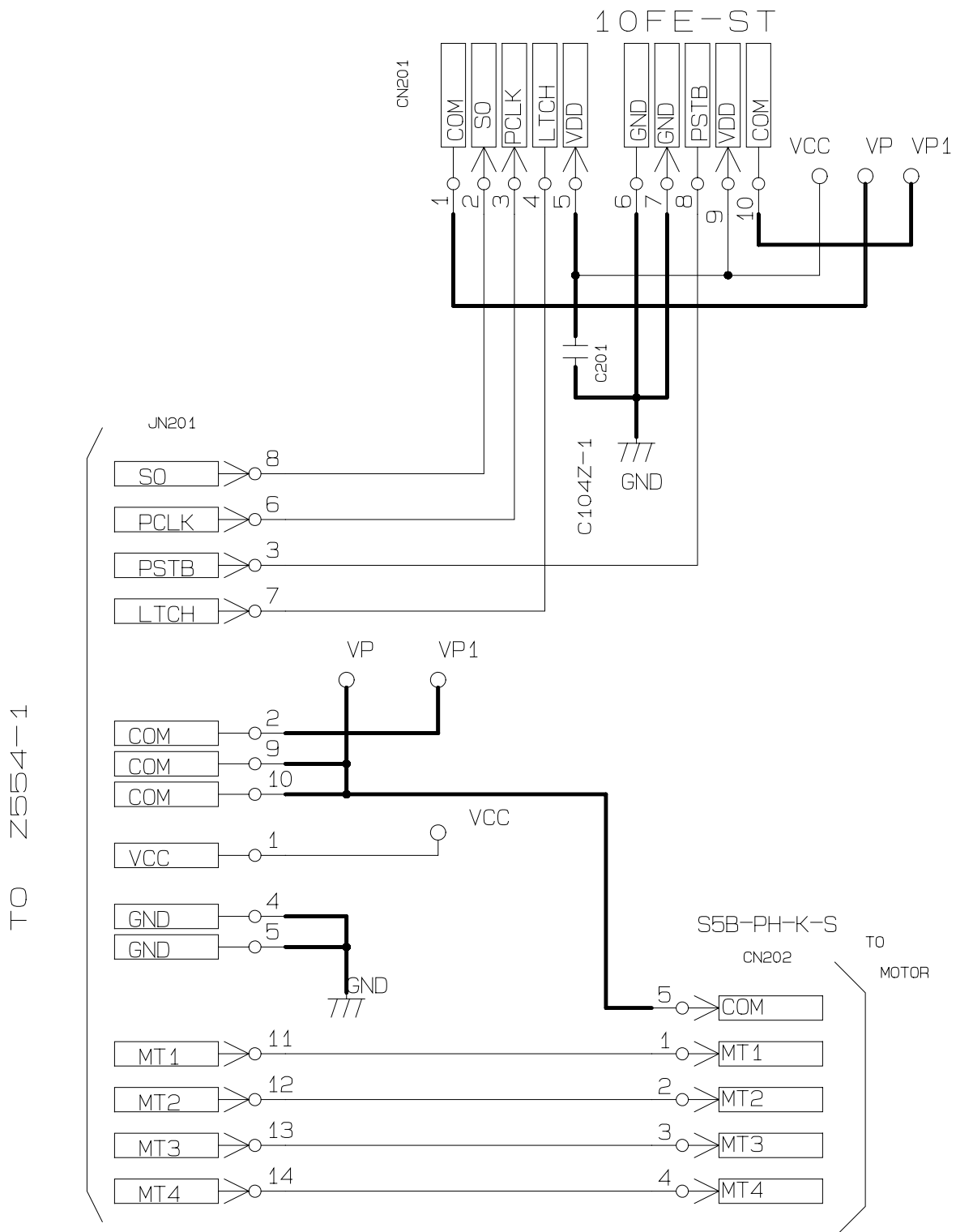
Main block



Key block



PCB ASSY
(A341050)



13. PARTS PRICE LIST

KL-750B

(COMPONENTS)

N	Item	Code No.	Parts Name	Specification	Q	Price Code	R
PCB ASSY/MAIN (A140614)							
N	LSI1	1000 7368	LSI/MC	UPD780308GC-A22	1	BJ	C
	IC1	2105 6275	IC/MOS	S-80745AL-A9-T1	1	AC	C
	IC2	2105 2737	IC/MOS	RH5RL50AA-T1	1	AC	C
	IC3	2114 2436	IC/LINEAR	BA12003	1	AF	C
	X1	2590 2450	OSCILLATOR/CERAMIC	PBRC-5.0BR	1	AF	C
	Q1,Q3	2259 0420	TRANSISTOR/DIGITAL	DTA144EKT-96	2	AA	C
	Q2	2259 0889	TRANSISTOR/DIGITAL	DTC144EKT-96	1	AA	C
	D1	2390 1827	DIODE/SCHOTTKY	MA737-(TX)	1	AD	C
	F1	3632 0637	FUSE/CHIP	F1206A1R50FWTR	1	AD	B
	1	3335 6758	LCD	CG1736-TS	1	AL	B
	2	6423 7790	HEAT SEAL	A342751-1	1	AF	B
	J1	3501 5103	JACK/AC ADAPTER	HEC3110-01-010	1	AD	C
	3	6418 0470	ADHESIVE TAPE	A441930-1	2	AA	C
	4	6423 7800	TAPE	A444044-1	1	AA	C
	CN201	3502 1893	CONNECTOR/FPC	10FE-ST-VK-N	1	AB	C
	CN202	3501 6307	CONNECTOR	S5B-PH-K-S	1	AA	C
	5	6417 0630	CABLE/JOINT	A441633-1	1	AD	C
	6	6419 4620	PCB ASSY	A341050A*4 A	1	AX	B
* Item CN201, 202 and 5 are assembled onto PCB ASSY (A341050A*4)							
COMPONENTS							
N	7	1000 7385	CASE/UPPER	A140386B-11	1	AM	X
N	8	1000 7391	CASE/LOWER	A140387A-9	1	AL	X
N	9	1001 1407	CHASSIS ASSY	TK-A140395*13	1	BC	C
N	10	1000 7387	RUBBER/KEY	A140380-11	1	AT	C
N	11	1000 7390	KNOB	A240593-11	1	AA	C
N	12	1000 7389	HOOK/CASSETTE	A341030-11	1	AA	C
	13	6417 0640	SPRING	A441642-1	1	AA	C
	14	6410 6980	SPRING/BATTERY	C413502-1	1	AA	X
	15	6410 6990	SPRING/BATTERY	C413503-1	1	AB	X
	16	6324 9297	SPRING/BATTERY	A43733A-1	3	AA	X
	17	6328 1560	SPRING/BATTERY	A44683A-1	4	AA	X
N	18	1000 7379	COVER/BATTERY	C211542-19	1	AB	C
N	19	1000 7380	COVER/CASSETTE	A240582A-9	1	AE	C
N	20	1000 7382	PANEL/DISPLAY	A341522-6	1	AC	B
	21	6408 9950	RUBBER/FOOT	A414533-1	4	AA	X
	22	6417 5650	CUTTER SUB ASSY	A341198*1	1	AM	X
N	23	1001 1408	PCB ASSY/MAIN	TK-A140614*7	1	DB	B
	24	6405 0930	LABEL/FCC	A412826-4	1	AA	C
Parts Prices will be informed separately by Parts Price List.							

Notes: **N**-New parts

Q-Quantity used per unit

R-Rank

R- A: Essential

B: Stock recommended

C: Others

X: No stock recommended

(CHASSIS ASSY)

N	Item	Code No.	Parts Name	Specification	Q	Price Code	R
CHASSIS ASSY							
N	101	6417 0521	CHASSIS SUB ASSY	A240571A*1	1	BA	X
	102	1000 7393	HOLDER/CUTTER	A240583-13	1	AA	X
N	103	1000 7394	LEVER/CUTTER	A240595-10	1	AA	X
	104	6417 0580	GEAR/CUTTER	A341032-1	1	AB	X
	105	6417 0610	SHAFT/CUTTER	A441612-1	2	AF	X
	106	6417 0650	SPRING	A441643-1	1	AA	X
	107	6410 8092	PLATEN	C312242B-1	1	AI	X
	108	6421 0390	HEAD/ARM	A240993-1	1	AC	X
	109	6410 2580	GEAR	A313761-1	1	AA	X
	110	6400 9780	SPRING/HEAD	A412366-1	1	AA	X
	111	6413 9340	SPRING/HEAD	A440434-1	1	AA	X
N	112	1000 7392	LEVER/SWITCH	A342074-6	1	AA	X
	113	6410 2770	GEAR	A313765-1	1	AB	X
	114	6400 9640	PLATE/CLUCH	A311853-1	1	AA	X
	115	6400 9650	REEL TOP	A311854-1	1	AA	X
	116	6400 9710	FELT	A412350-1	1	AA	X
	117	6400 9720	WASHER	A412351-1	1	AA	X
	118	6400 9730	SPRING/CLUTCH	A412352-1	1	AA	X
	119	6400 9750	WASHER	A412353-2	5	AA	X
	120	6400 9760	WASHER	A412353-3	1	AA	X
	121	6405 2850	ADHESIVE TAPE	A413501-1	1	AA	X
	122	1013 8689	PRINT HEAD/THERMAL	KSH64FK-CA	1	BP	B
	123	3222 0049	MOTOR/STEPPING	27S1N18ECNU	1	BB	X
	124	1909 1944	SCREW	M3X5 ZMC-3	2	AA	X
			Parts Prices will be informed separately by Parts Price List.				

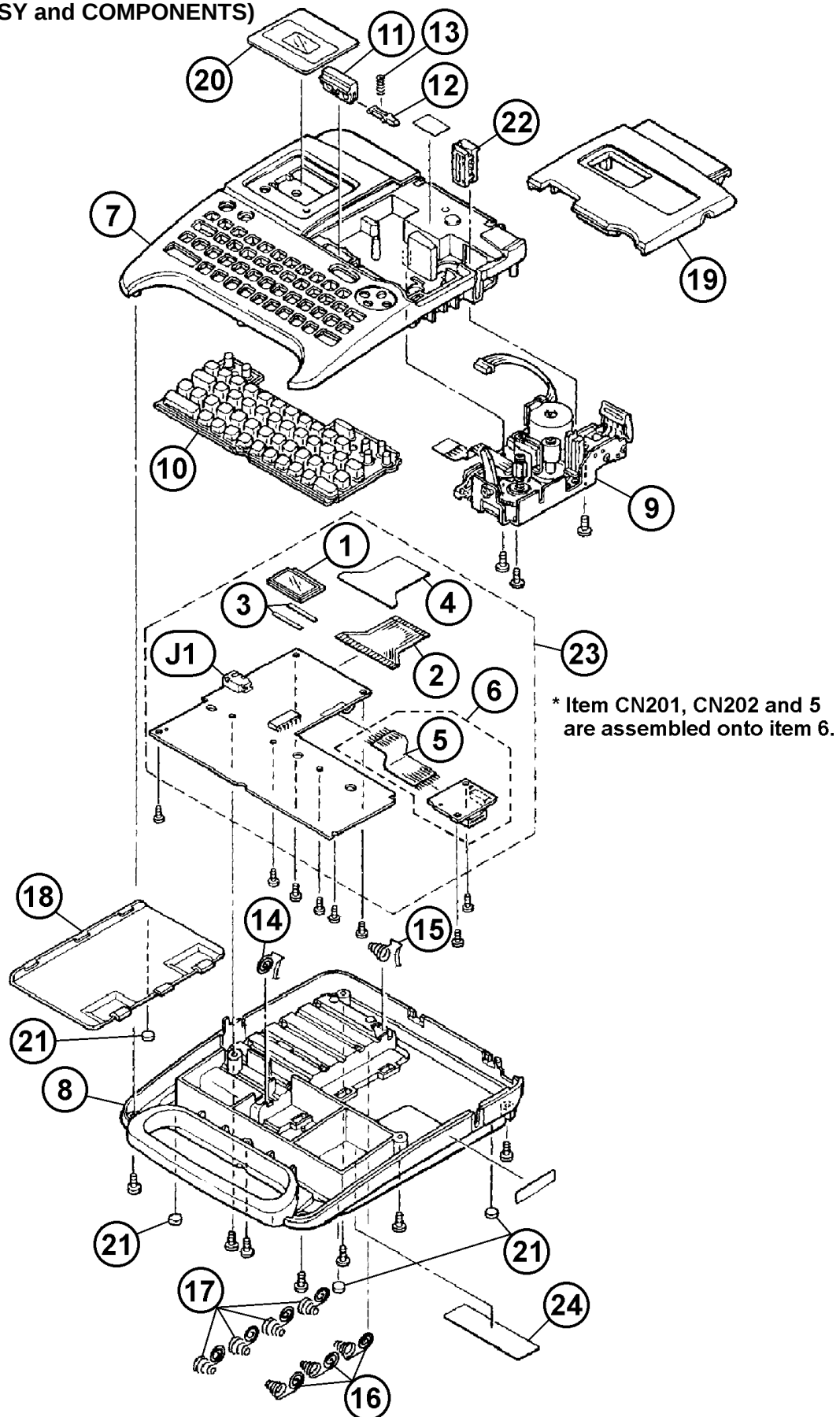
Notes: **N**-New parts**Q**-Quantity used per unit**R**-Rank**R**- A: Essential

B: Stock recommended

C: Others

X: No stock recommended

14. EXPLODED VIEW (PCB ASSY and COMPONENTS)

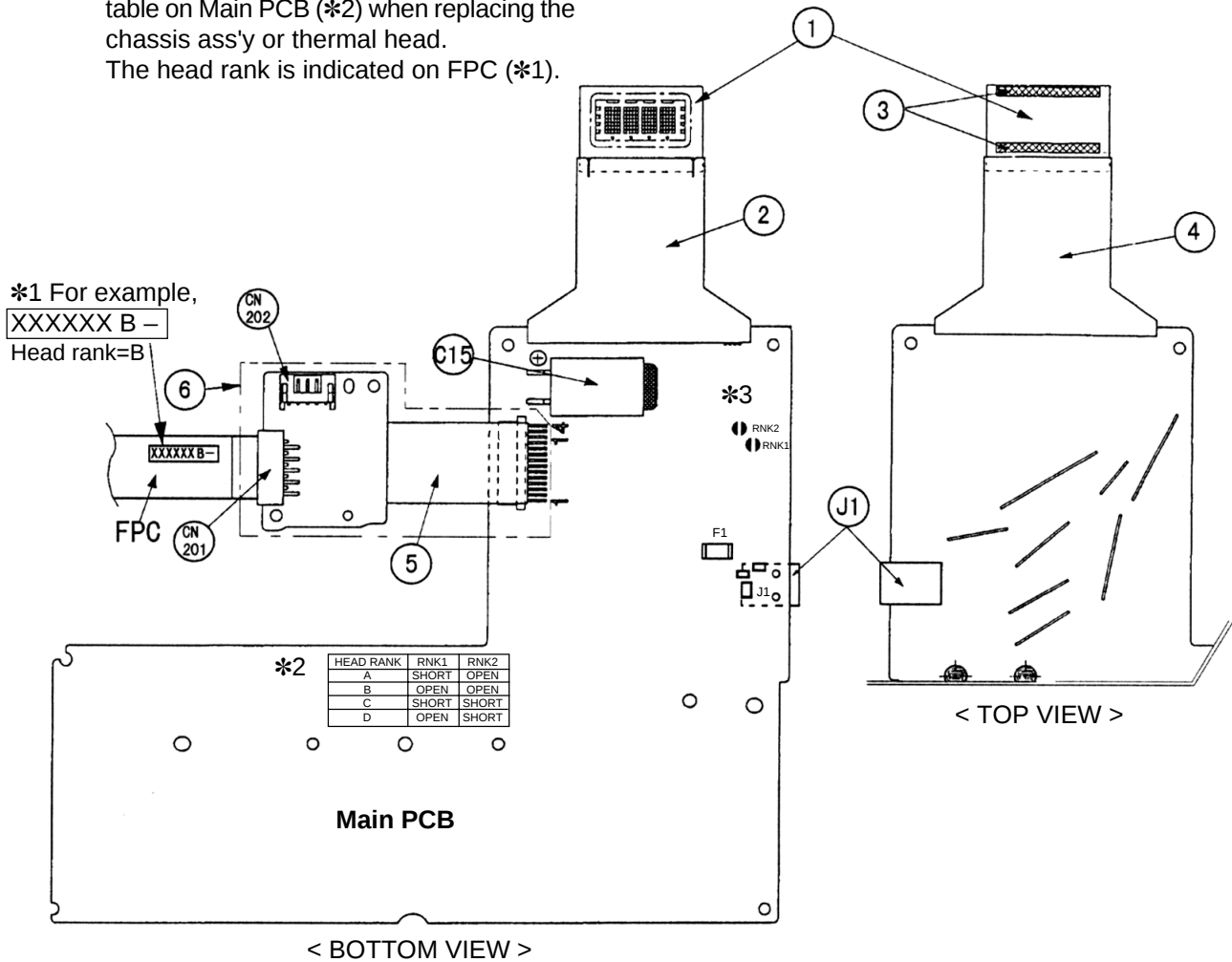


(PCB ASSY/MAIN)

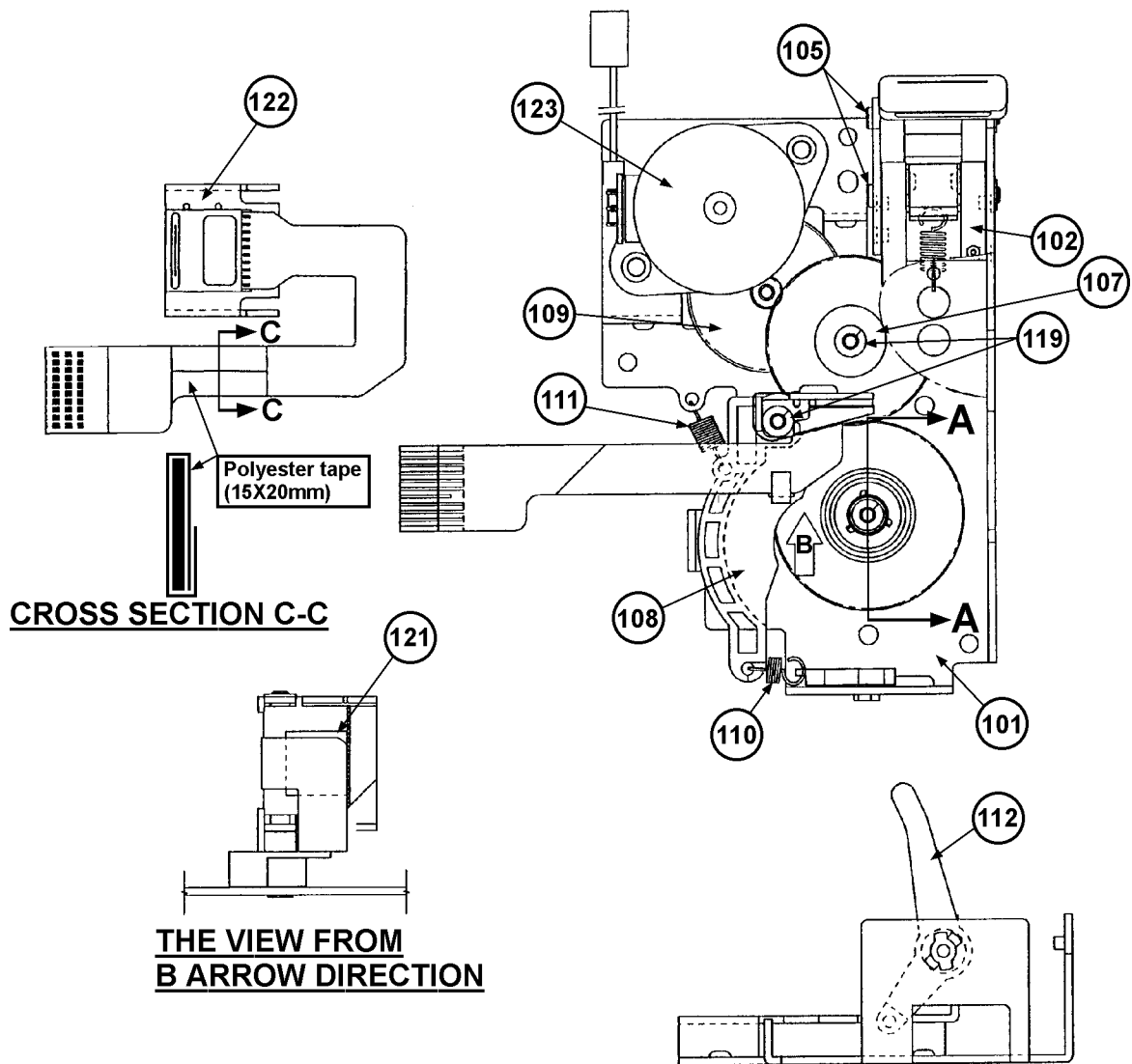
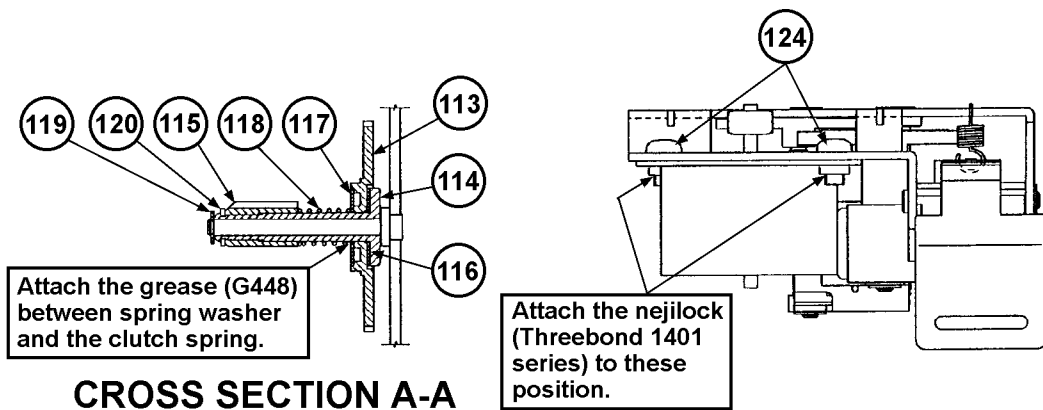
Note-1: Setting the thermal head rank

Set the thermal head rank with pads RANK1 and RANK2 (*3) refering to the table on Main PCB (*2) when replacing the chassis ass'y or thermal head.

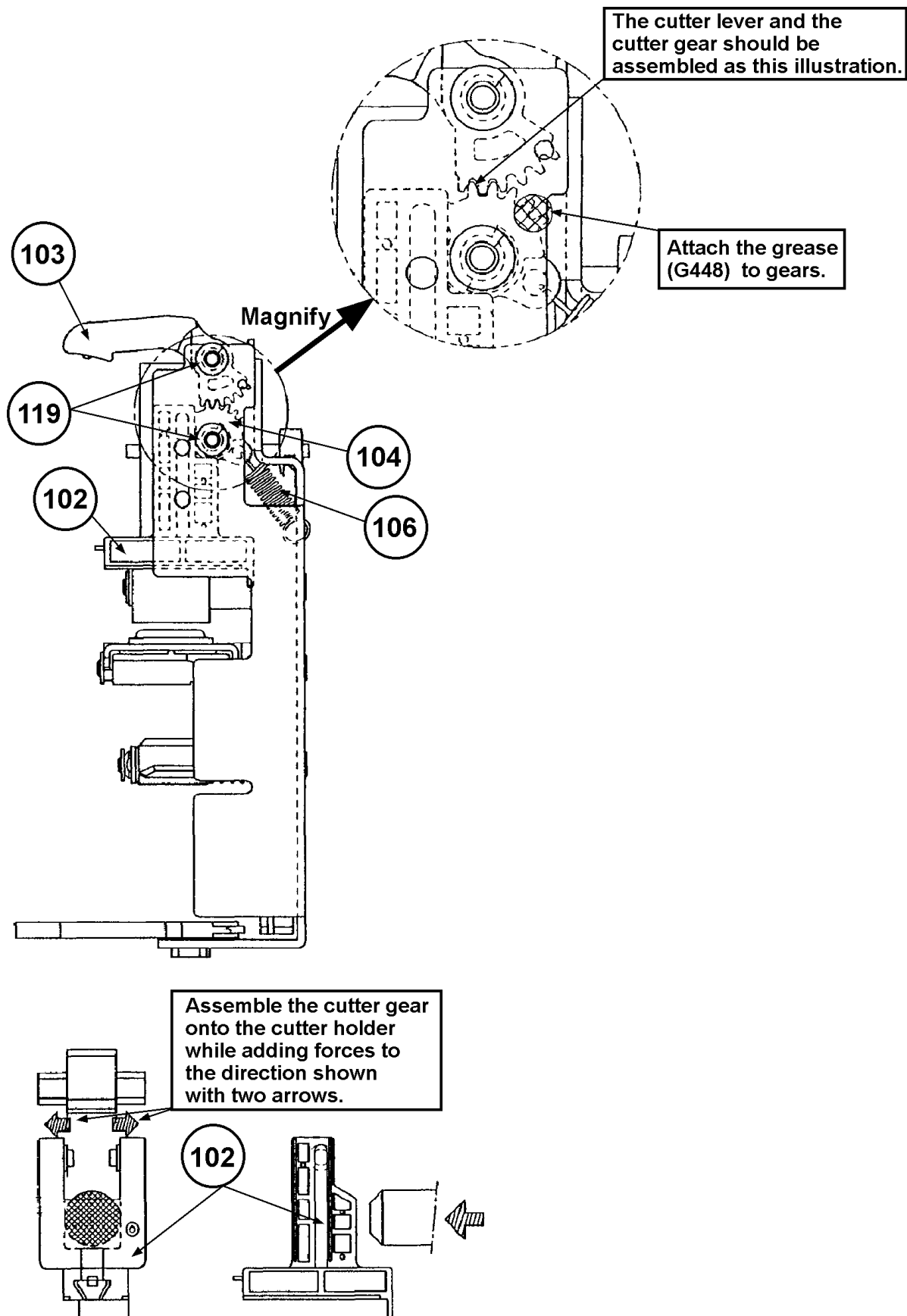
The head rank is indicated on FPC (*1).



CHASSIS ASSY (1/2)



CHASSIS ASSY (2/2)



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