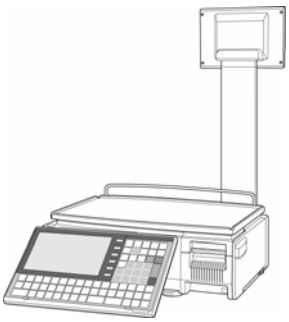
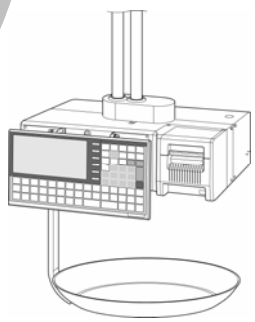
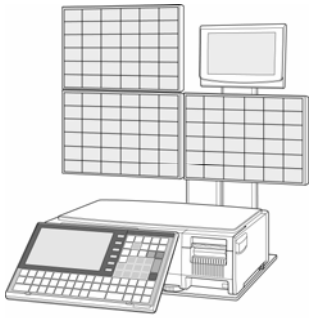


UNI-7

Service Manual





IMPORTANT

- Read this manual thoroughly, and do not perform installation, operation, maintenance, or inspection unless you fully understand all of the contents.
- Keep this manual in a safe place where you can refer to it easily while installing, operating, and carrying out maintenance or inspections.

ISHIDA CO., LTD.

RS-61004-11

NOTICES

IMPORTANT NOTICE

Those who handle the machine must be aware of the hazards involved. These dangers may not be obvious, so it is imperative to follow the instructions detailed in this manual when installing, operating, inspecting, or servicing the machine. Therefore, we recommend that you thoroughly read and understand this manual before installing, operating, inspecting, or servicing the machine.
ISHIDA is not liable for any damage, loss or injury that results from incorrect operation, insufficient caution, unauthorized modifications to the machine, or failure to follow the instructions contained in this manual.

LIMITATIONS OF LIABILITY

ISHIDA assumes no responsibility for special, indirect, or consequential damages, loss of profits or commercial loss in any way connected with the machine, whether such claim is based on contract, warranty, negligence, or strict liability.
ISHIDA assumes no responsibility for the user's programming of this machine, or any consequence thereof.
In no event shall ISHIDA be responsible for warranty, repair, or other claims regarding the machine unless ISHIDA's analysis confirms that the machines were properly handled, stored, installed, and maintained and not subject to contamination, abuse, misuse, or inappropriate modification or repair.

CHANGE IN SPECIFICATIONS

Machine specifications and accessories may be changed at any time due to improvements or other reasons. Consult with your ISHIDA representative at any time to confirm the actual specifications of the purchased machine.

ERRORS AND OMISSIONS

The information in this manual has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors, or omissions.

PRECAUTIONS

PRECAUTION SYMBOLS

This machine is manufactured for use according to proper procedures by a qualified person and only for the purposes described in this manual. The following conventions are used to indicate and classify precautions depending on the level of danger, or seriousness of potential injury. Always heed the information provided in this manual. Failure to heed precautions can result in personal injury or property damage.

	Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or death. Additionally, there may be significant property damage.
	Indicates a potentially hazardous situation where, if not avoided, may result in minor or moderate injury or in property damage.

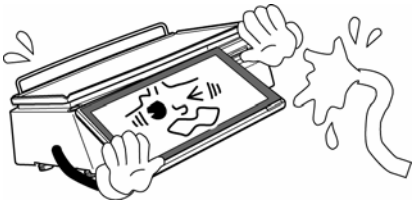
	Indicates reference information for operation.
	Indicates the referred page for operation.

PRECAUTIONS FOR HANDLING

⚠ WARNING

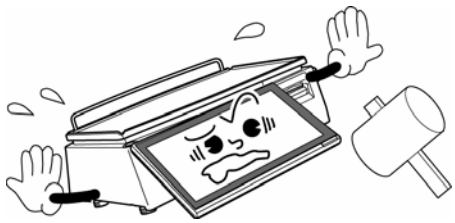
- **Do not allow water or any liquids to come into contact with the machine.**

  Doing so may result in fire or cause the machine to break down.



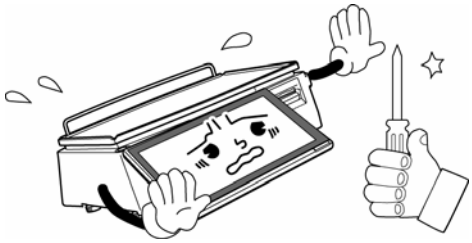
- **Do not drop or apply a strong shock to the machine.**

  Doing so may cause the machine to break down.



- **Do not disassemble, modify, or attempt to repair the machine.**

  Doing so may damage the original safety functions.

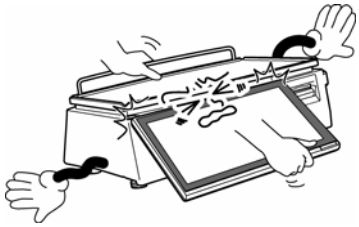


- **Do not hold the connector cover when carrying the machine.**

  Dropping the machine may result in injury or cause the machine to break down.

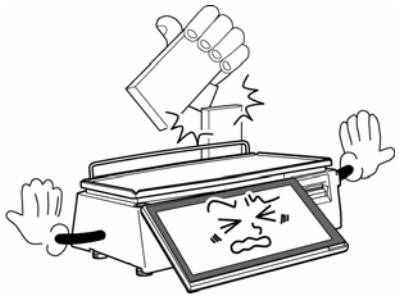
- **Do not hold the operation panel or weigh platter when carrying the machine.**

  Doing so may cause the operation panel or the platter to break down.



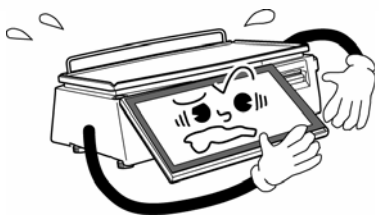
- **Do not hold the customer display the when carrying the pole type machine.**

  Dropping the machine may result in injury or cause the machine to break down.



- **Do not drop the cassette.**

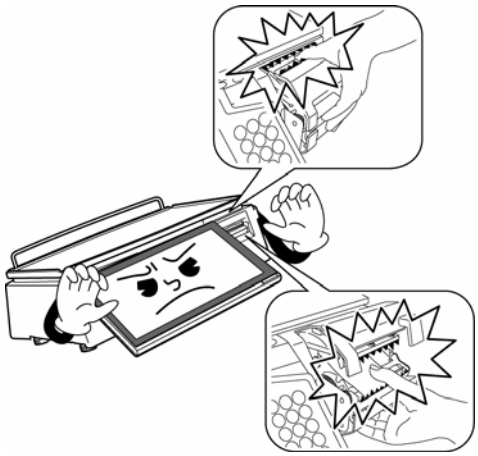
  Dropping the cassette may result in injury or cause the cassette to break down.



WARNING

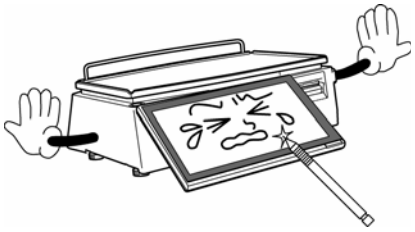
- **Handle with care when removing or inserting the cassette.**

  Careless cassette handling may result in injury or cause the cassette to break down.

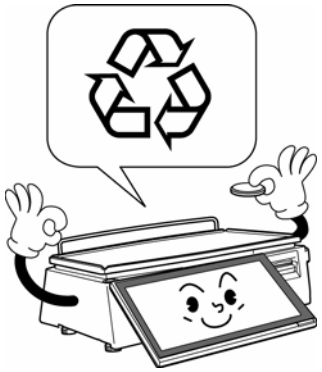


- **Do not press the touch panel with an edged thing.**

  Doing so may scratch the panel and cause the machine to break down.



- **Do not dispose of batteries with normal household waste. Please obey your local regulations when disposing of used batteries**.



PRECAUTIONS WHEN USING CLEANING FLUIDS

⚠CAUTION

Use a soft cloth and a neutral detergent to clean the machine.
Do not use thinner, benzene, etc. Doing so may damage the original safety functions.
For some parts, use cleaning fluid (isopropyl alcohol).

⚠CAUTION	· Do not use cleaning fluid near fire as the fluid is flammable. · Do not use cleaning fluid in a poorly ventilated area. Always provide adequate ventilation when cleaning.

Take the following actions in the event of an accident:

If the fluid gets in your eye

- Immediately wash your eye(s) with water for at least 15 minutes, and consult your doctor.
- If you wear contact lenses, remove and wash them.

If the fluid comes into contact with your skin

- Immediately rinse the area of contact with water, and then wash with soap.
- If you notice any skin abnormalities at the area of contact, or if any pain persists, consult your doctor.

If the fumes of the fluid are inhaled

- Immediately move the victim to an area where fresh air is available, and have the victim lie down and keep warm.
- If breathing becomes difficult or stops, provide artificial respiration and seek medical attention immediately.

If the fluid is swallowed

- Do not try to induce vomiting.
- Do not give the victim anything to drink, and do not rinse the mouth.
- If vomiting occurs naturally, have the victim lean forward to reduce risk of aspiration.
- Keep the victim warm and seek medical attention.

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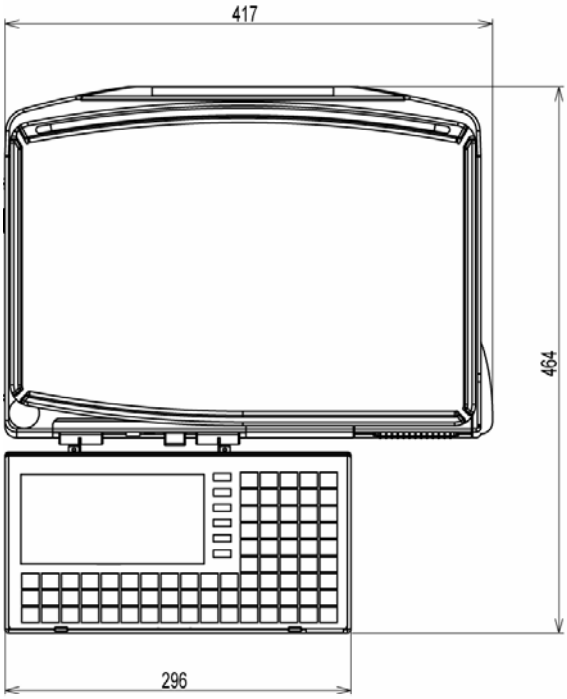
Appendix TEXT EDITING

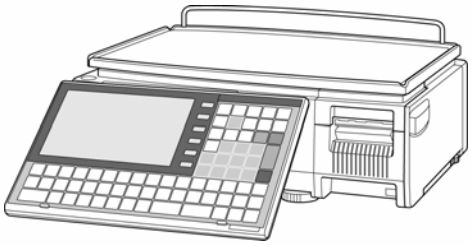
1 BASIC INFORMATION

1.1 OUTER DIMENSIONS FOR EACH TYPE

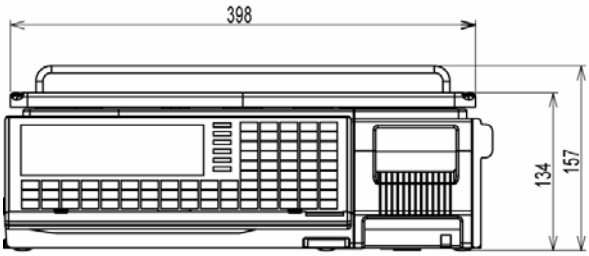
1.1.1 OUTER DIMENSIONS FOR BENCH TYPE

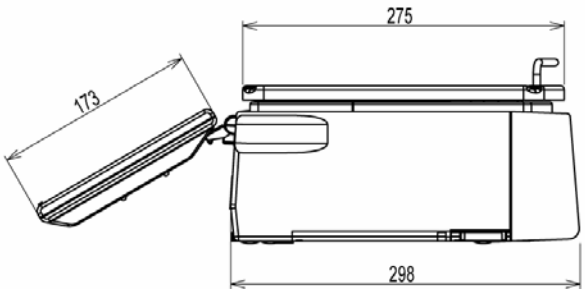
Unit: mm





Bench Type





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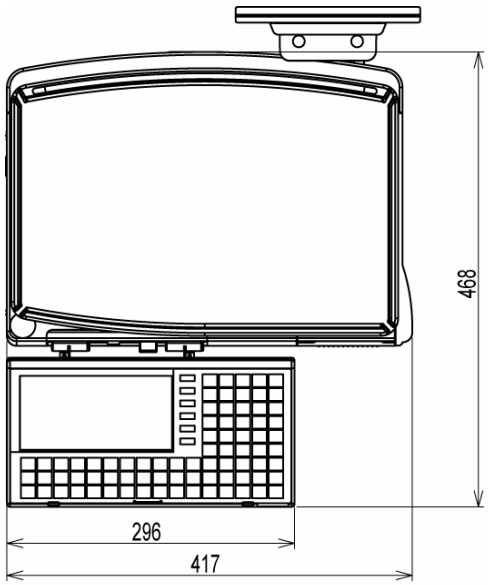
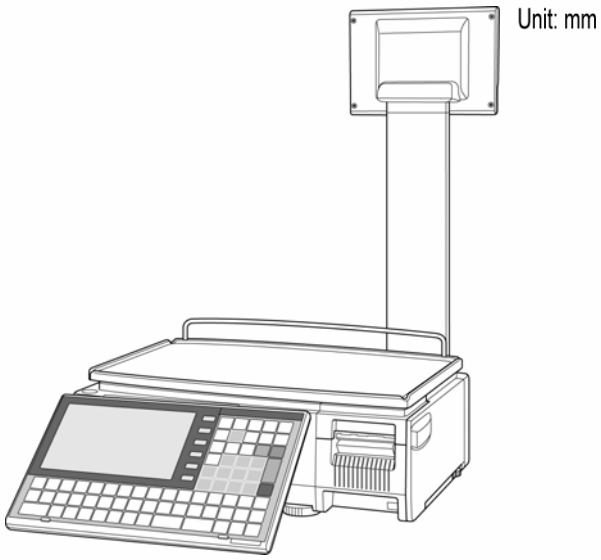
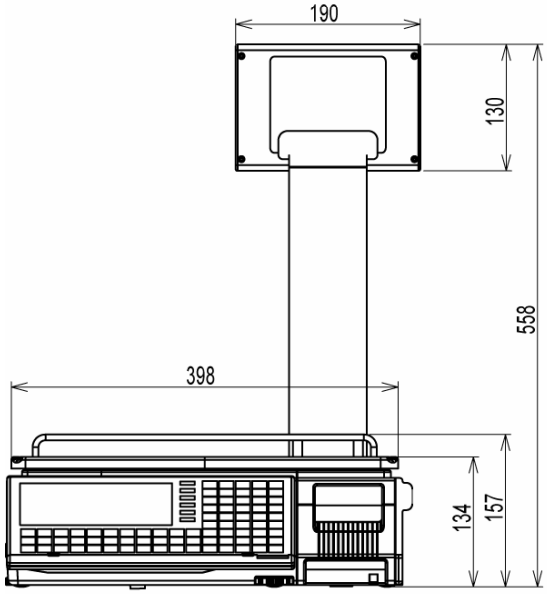
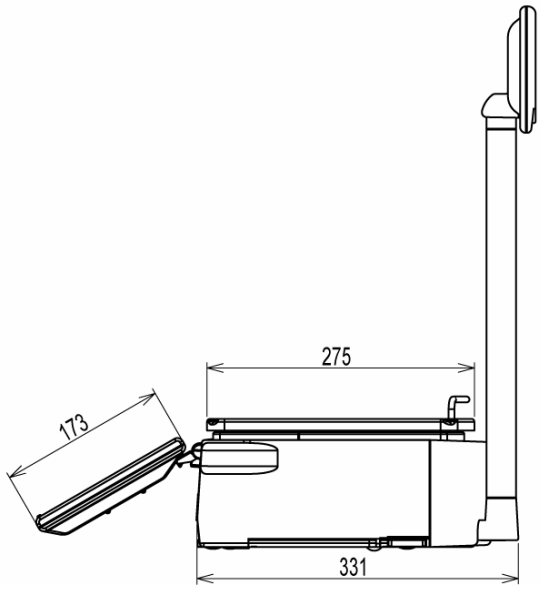




Pole Type





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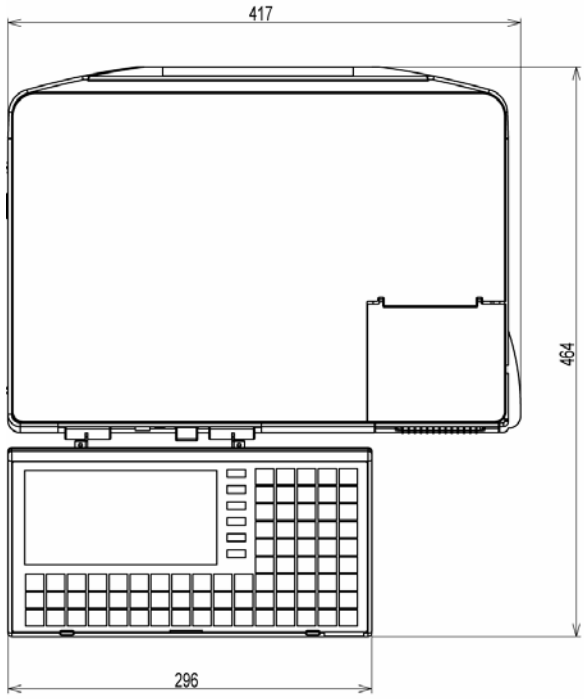

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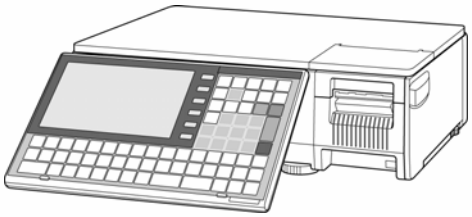
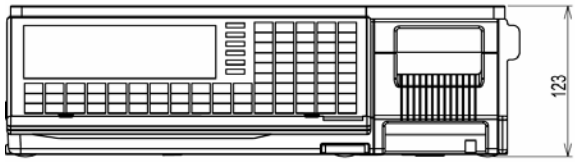
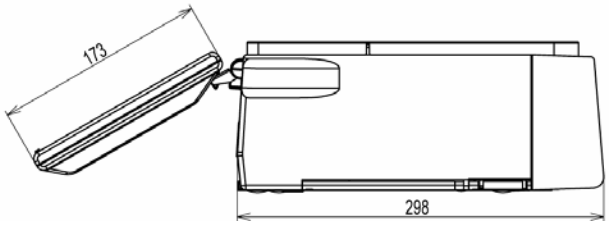
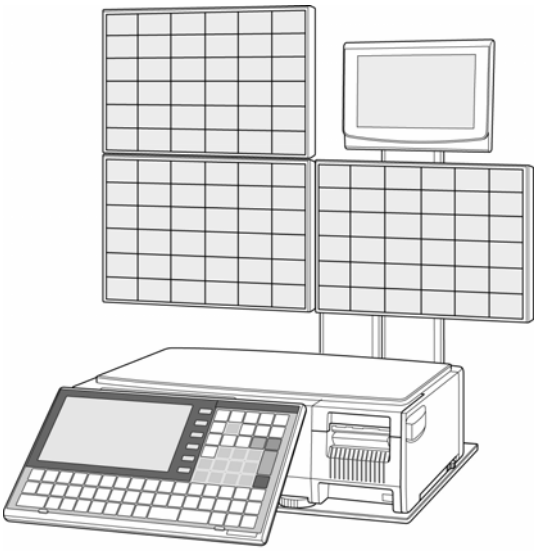


Bakery Type



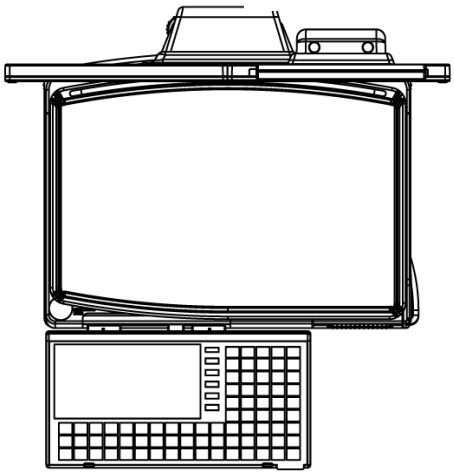


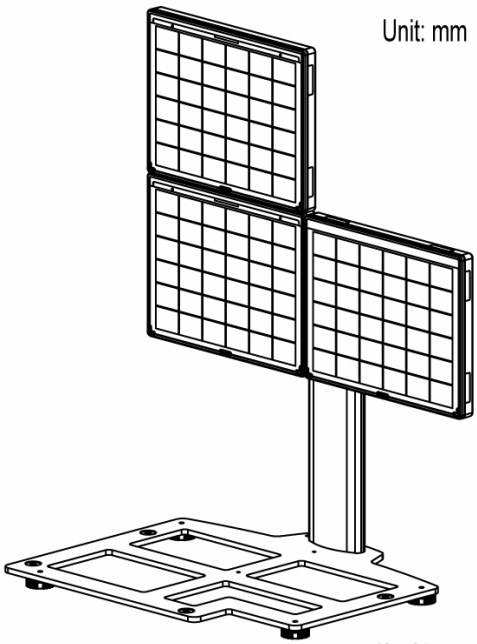
1.1.4 OUTER DIMENSIONS FOR SELF-SERVICE TYPE

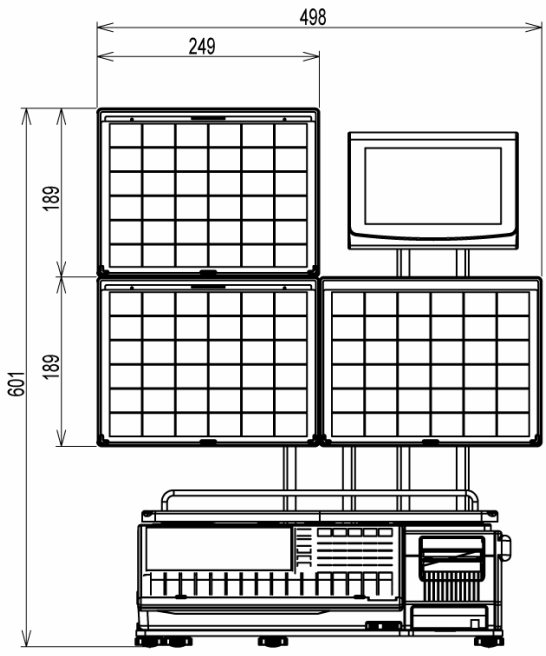


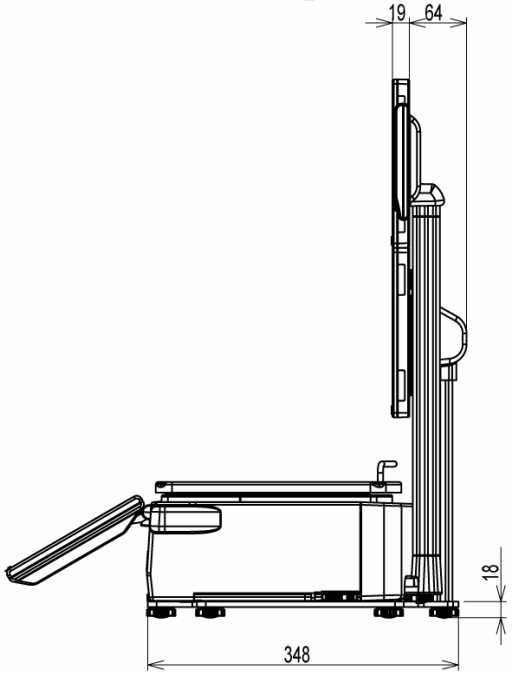
Self-service Type

Unit: mm

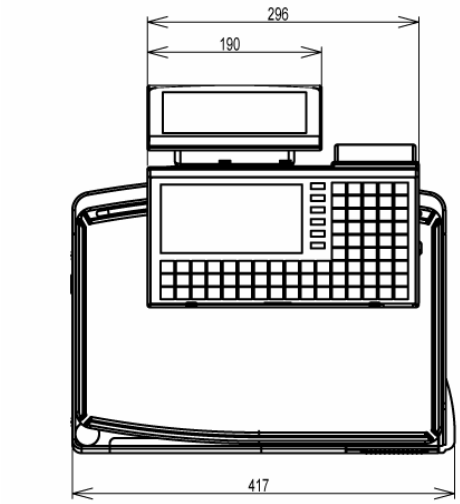


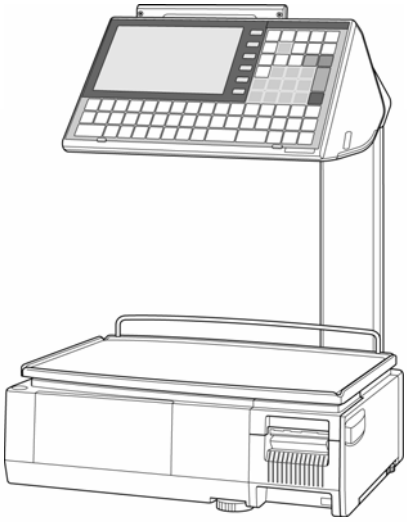




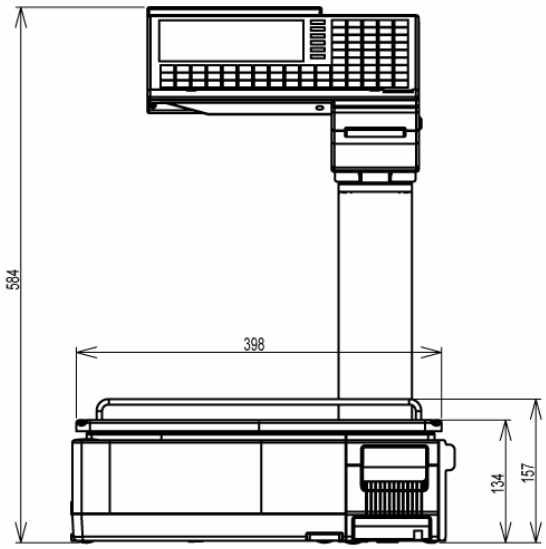


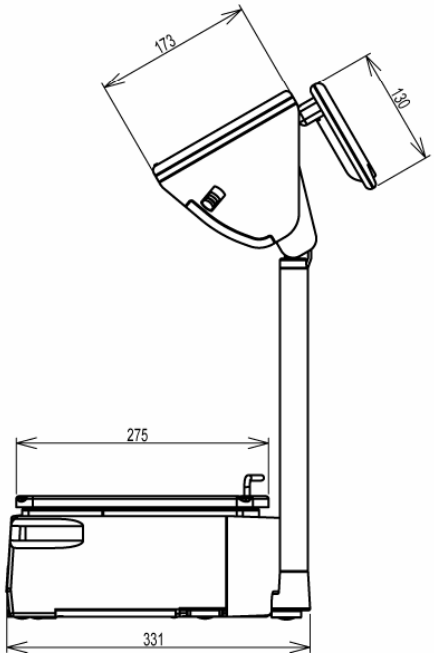
1.1.5 OUTER DIMENSIONS FOR ELEVATED TYPE



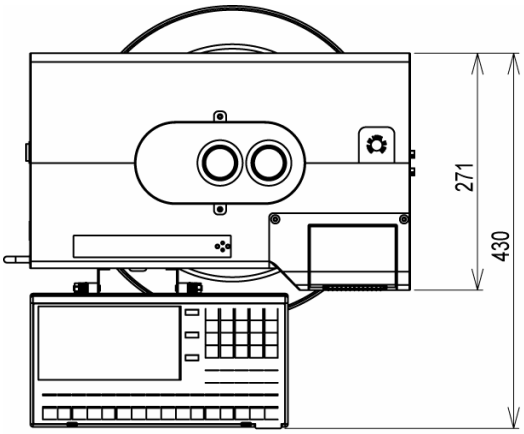


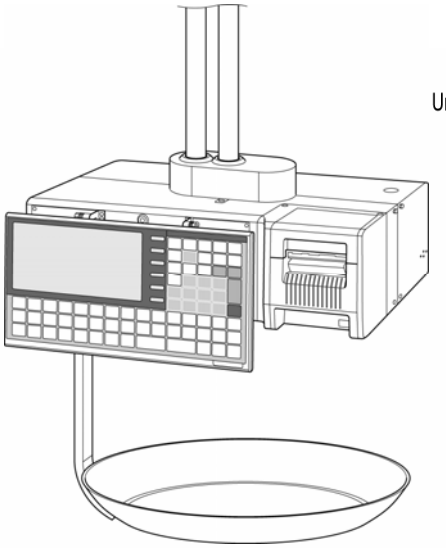
Elevated Type

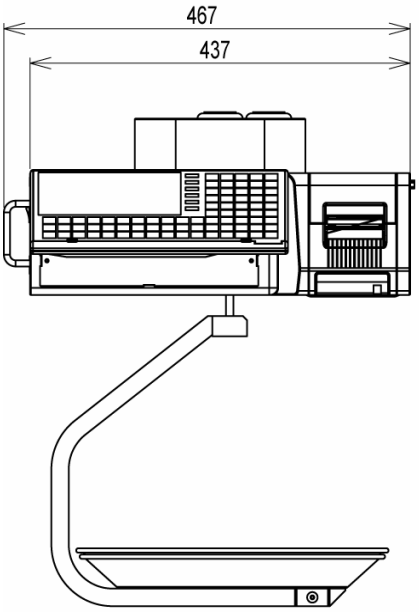




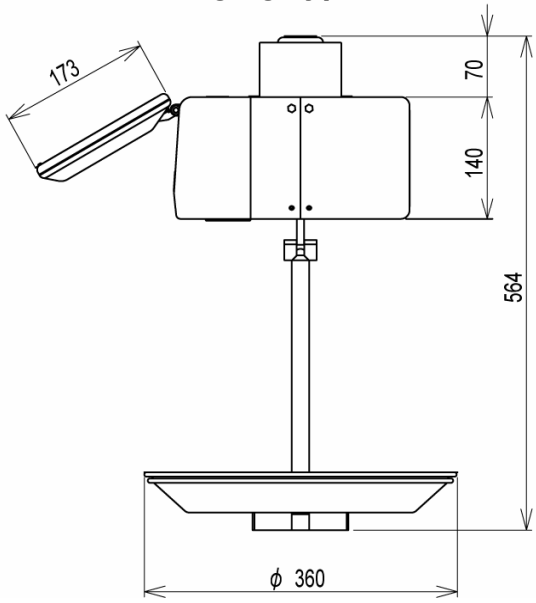
1.1.6 OUTER DIMENSIONS FOR HANGING TYPE







Hanging Type



1.2 SPECIFICATIONS

Items	Descriptions
Use conditions	Temperature: -5 to 35°C Humidity: 30 to 85%, Non condensing.
Power supply:	AC100 – 240V, 50 / 60Hz
Power consumption	1.0A/0.5A
Weighing capacity Scale interval	15 kg: 0 to 6/0.002 kg, 6 to 15/0.005 kg 30 lb: 0 to 15/0.005 lb, 15 to 30/0.01 lb
Weighting accuracy	1/3000
Operator/Customer display	7.0 inch color liquid crystal with back light, 480 X 234dots
Printing method	Direct thermal method
Thermal head	2 inches (448dots) and 8 dots/mm
Printing speed	100mm/second, 120mm/second *Note: The printing speed may vary according to label conditions.*
Printing effective size	56mm
Label size	Label width: 30mm to 60mm Label length: 20mm to 150mm
Number of label cassettes	7 cassettes
Input/Output	LAN 1 channel USB 1 channel CF 1 channel Drawer 2 channels
Program store medium	Flash ROM (32M bytes)

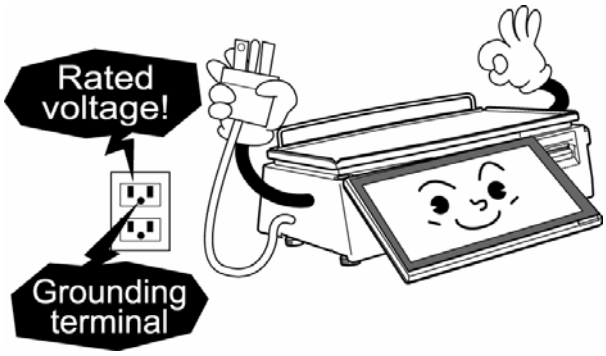
1.3 INSTALLATION

1.3.1 POWER SUPPLY

WARNING

It is strongly advised that the following safety measures must be observed to ensure the safe operation of the machine:

- **Read precaution instructions described in this manual before connecting the power plug into the outlet.**
- **Always use a power supply with rated voltage. Never connect the machine power input with an AC power supply exceeding the rated voltage. To avoid any potential electrical shock, ensure that the protective ground wire is connected to the main grounding provision.**
  Using the machine outside of the rated voltage may result in machine failure or danger such as electric shock.



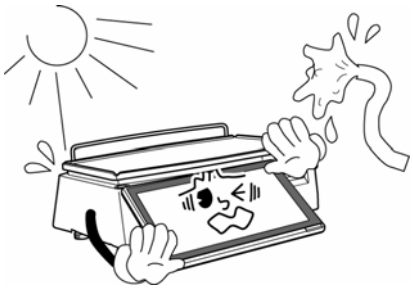
- **Prepare a dedicated power source.**
  A power supply that generates voltage variation may cause a malfunction.
- **Do not stand on the power cable, and do not place anything heavy on the cable.**
  Doing so may damage the cable, resulting in accident or trouble.
- **Disconnect power supply before servicing.**
  To ensure your personal safety, disconnect the power supply before servicing.
- **Take precaution against residual electrical charge hazard.**
  Capacitors inside the machine may still hold an electrical charge even after power is disconnected.
- **Do not remove covers or enclosures.**
  To avoid personal injury and shock, do not open or remove any covers or enclosures of the machine unless specified in the manual.
- **Do not perform unspecified maintenance.**
  For your personal safety, do not perform any maintenance procedures which are not specified in the manual.

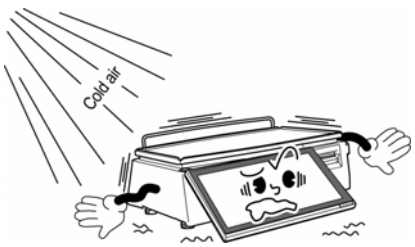
1.3.2 PRECAUTIONS FOR INSTALLATION

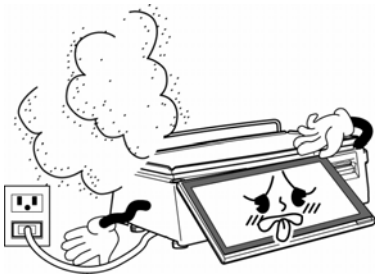
WARNING

Do not install the machine in the following types of places:

- Places subject to high temperatures or high humidity
- Places exposed to direct sunlight
- Places where water or other liquids are easily spilled on the machine
- Places subject to excessive vibration or unstable foundations
- Places exposed to direct cold air from air conditioners or refrigerators
- Places where the floor or foundation is unstable
- Places subject to a lot of dust or dirt
- Places with large voltage fluctuations

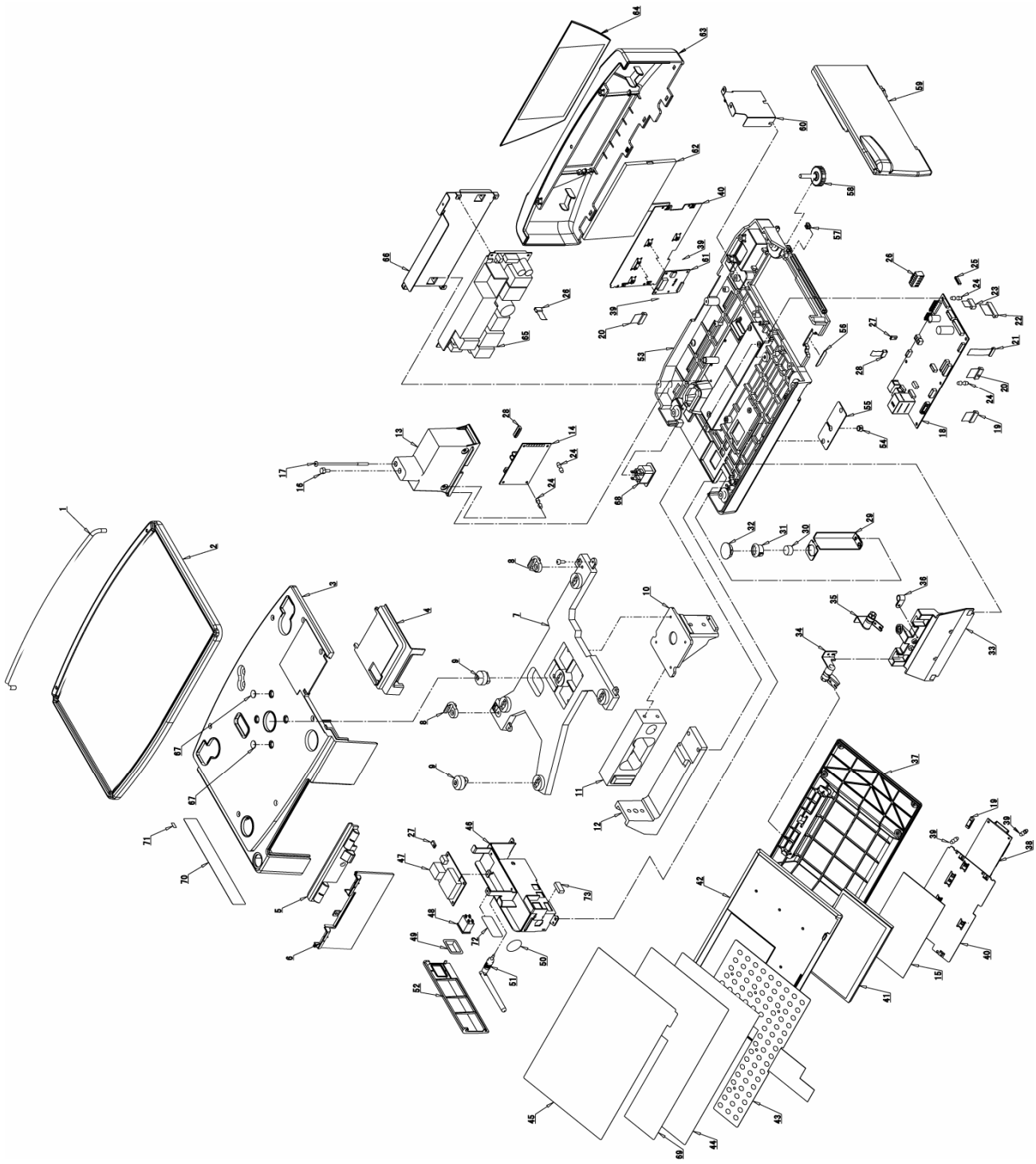






2 ASSEMBLY DRAWINGS

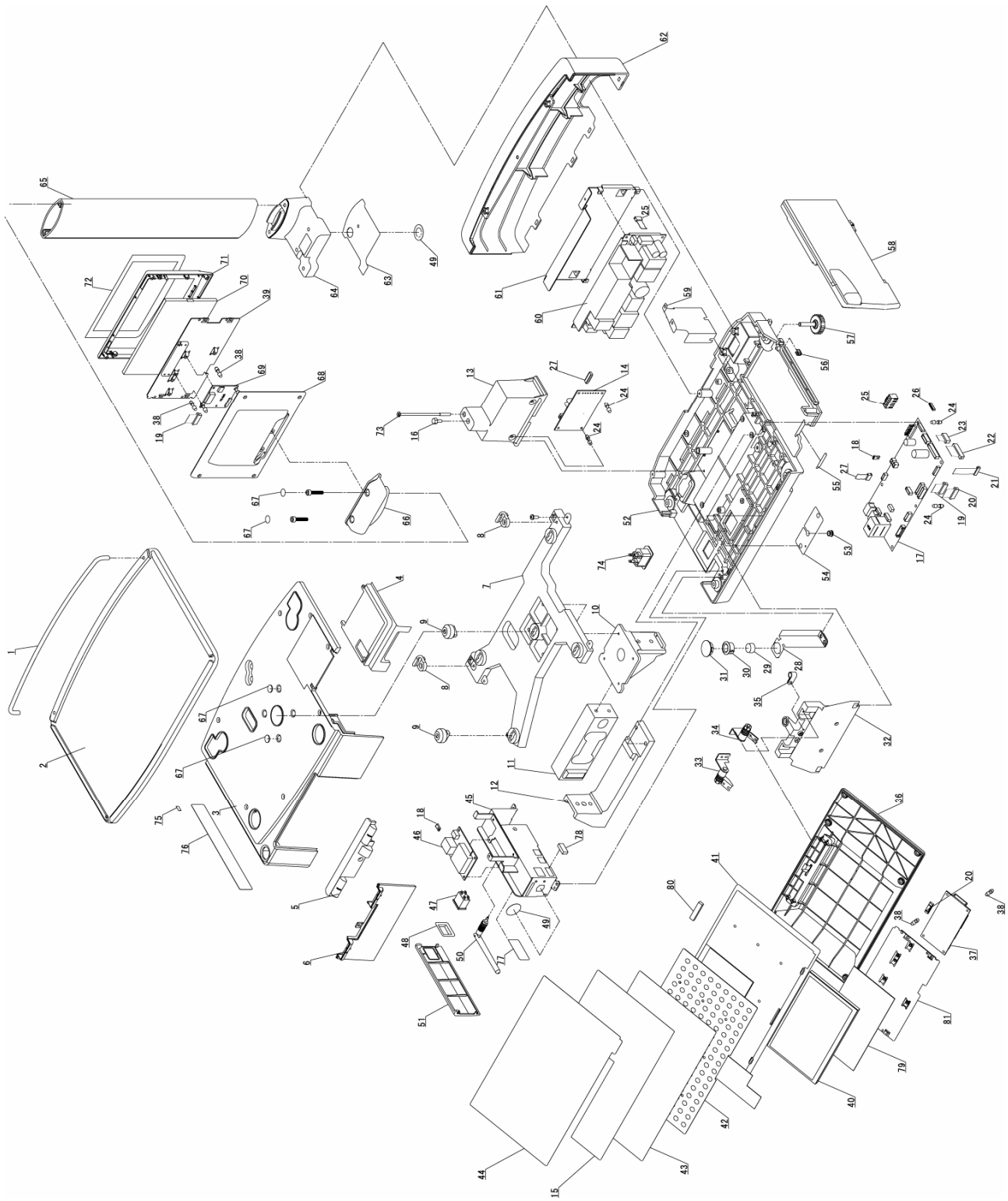
2.1 BENCH TYPE



Parts List (Bench Type)

NO.	PART NAME	Q'TY	NO.	PART NAME	Q'TY
1	GUIDE PLATTER	1	38	PK-261	1
2	PLATTER	1	39	ACCESSORY PCB SUPPORT	2
3	CASE MAIN UPPER	1	40	BRACKET LCD	1
4	COVER PRINTER UPPER	1	41	LCD TP	1
5	COVER HINGE UPPER	1	42	CASE FRONT CONTROL	1
6	COVER HINGE LOWER	1	43	MEMBRANE	1
7	PLATTER SUPPORT	1	44	PRINTER PLATE	1
8	BLOCK HINGE PLATTER	2	45	CLEAR SHEET	1
9	RUBBER	5	46	BRACKET CONNECTOR	1
10	BRACKET PLATTER SUPPORT	1	47	WIRELESS BOARD	1
11	LOAD CELL	1	48	HARNESS 'C4' SWITCH POWER	1
12	BRACKET LOAD CELL	1	49	COVER SWITCH	1
13	CASE A/D BOARD	1	50	COVER LAN PORT	1
14	A/D BOARD	1	51	ANTENNA	1
15	SHEET DOUBLE TAPE	2	52	COVER BRACKET CONNECTOR	1
16	SCREW 'SEAL' HEXA	1	53	BASE	1
17	SCREW 'SEAL'	1	54	BUSH NG	1
18	PK-260	1	55	PLATE B RS232C	1
19	HARNESS 'C4' FRONT LCD	1	56	PLATE B MAGNET IC	1
20	HARNESS 'C4' REAR LCD	1	57	BLOCK B HINGE SIDE COVER	1
21	HARNESS 'C4' SENSOR	1	58	FOOT ADJUST	4
22	HARNESS 'C2' HEAD	1	59	COVER SIDE	1
23	HARNESS 'S2' MOTOR	1	60	COVER HARNESS	1
24	ACCESSORY PCB SUPPORT	4	61	PK-263	1
25	HARNESS 'C2' CASSETTE	1	62	LCD	1
26	HARNESS 'S2' 24V DC POWER	1	63	CASE REAR COVER	1
27	HARNESS 'S2' 5V POWER	1	64	PANEL REAR	1
28	HARNESS 'C2' A/D	1	65	POWER	1
29	BRACKET LEVEL	1	66	BRACKET POWER	1
30	LEVEL UNIT	1	67	CAP	4
31	FRAME LEVEL	1	68	HARNESS 'C2' POWER	1
32	LENS LEVEL	1	69	KEY SHEET	1
33	BRACKET TOROUE HINGE	1	70	NAME PLATE SPEC	1
34	HINGE L	1	71	STICKER 'M'	1
35	HINGE R	1	72	STICKER LOCATION OUTPUT	1
36	ACCESSORY CLAMP	1	73	USB GASKET	1
37	CASE REAR CONTROL	1			

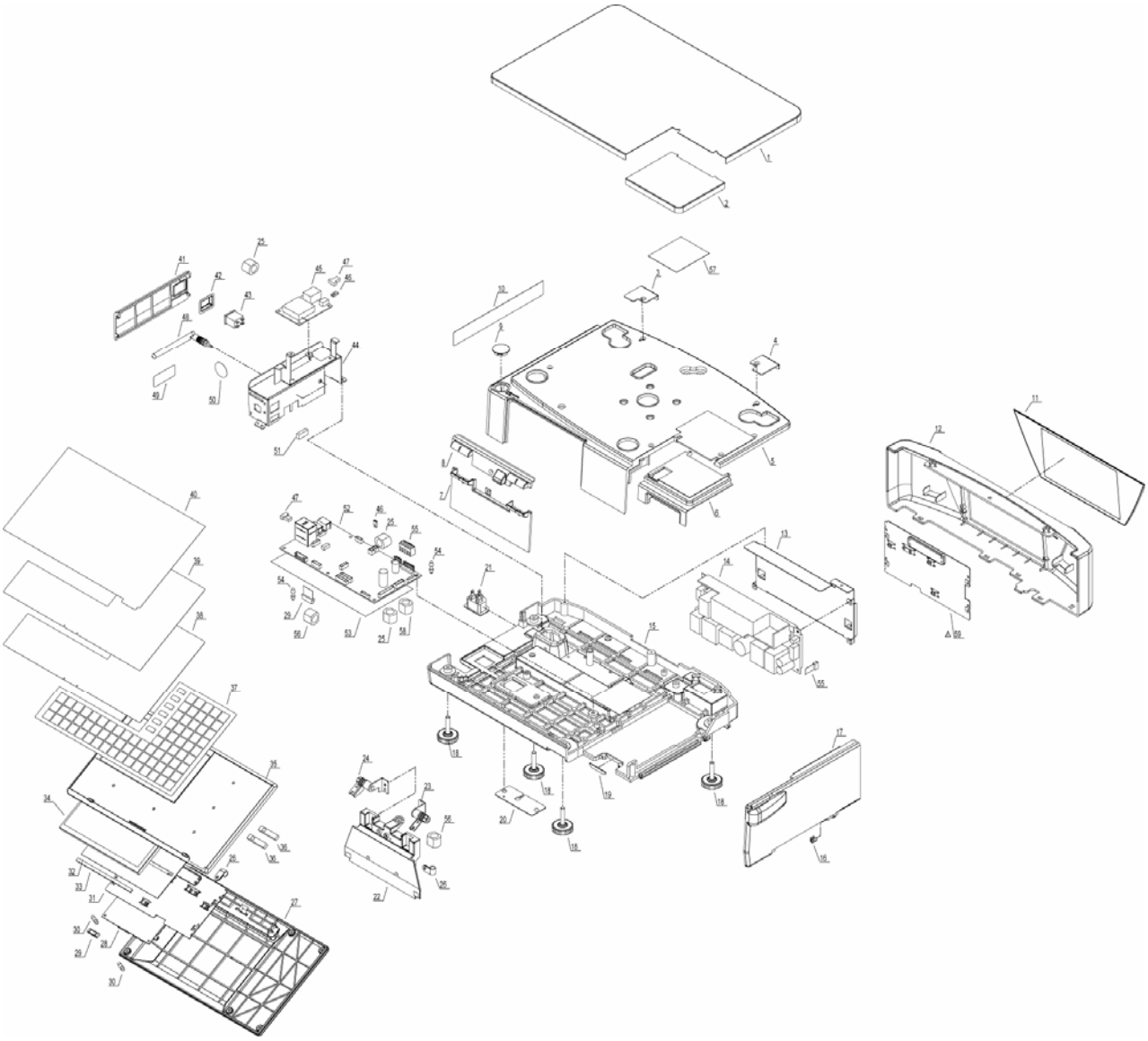
2.2 POLE TYPE



Parts List (Pole Type)

NO.	PART NAME	Q'TY
1	GUIDE PLATTER	1
2	PLATTER	1
3	CASE MAIN UPPER	1
4	COVER PRINTER UPPER	1
5	COVER HINGE UPPER	1
6	COVER HINGE LOWER	1
7	PLATTER SUPPORT	1
8	BLOCK B HINGE PLATTER	2
9	RUBBER	5
10	BRACKET PLATTER SUPPORT	1
11	LOAD CELL	1
12	BRACKET LOAD CELL	1
13	CASE A/D BOARD	1
14	A/D BOARD	1
15	KEY SHEET	2
16	SCREW 'SEAL' HEXA	1
17	PK-260	1
18	HARNESS 'C2' 5V POWER	1
19	HARNESS 'C4' REAR LCD POLE	1
20	HARNESS 'C4' FRONT LCD	1
21	HARNESS 'C4' SENSOR	1
22	HARNESS 'C2' HEAD	1
23	HARNESS 'S2' MOTOR	1
24	ACCESSORY PCB SUPPORT	4
25	HARNESS 'C2' 24V DC POWER	1
26	HARNESS 'C2' CASSETTE	1
27	HARNESS 'C2' A/D	1
28	BRACKET LEVEL	1
29	LEVEL UNIT	1
30	FRAME LEVEL	1
31	LENS LEVEL	1
32	BRACKET TORQUE HINGE	1
33	HINGE L	1
34	HINGE R	1
35	ACCESSORY CLAMP	1
36	CASE REAR CONTROL	1
37	PK-261	1
38	ACCESSORY PCB SUPPORT	1
39	BRACKET LCD	2
40	LCD TP	1
41	CASE FRONT CONTROL	1
42	MEMBRANE	1
43	KEYBOARD ASSEMBLY	1
44	CLEAR SHEET	1
45	BRACKET CONNECTOR	1
46	WIRELESS BOARD	1
47	HARNESS 'C4' SWITCH POWER	1
48	COVER SWITCH	1
49	COVER LAN PORT	1
50	ANTENNA	1
51	COVER BRACKET CONNECTOR	1
52	BASE	1
53	BUSH NG	1
54	PLATE B RS232C	1
55	PLATE B MAGNET IC	1
56	BLOCK B HINGE SIDE COVER	1
57	FOOT ADJUST	1
58	COVER SIDE	4
59	COVER HARNESS	1
60	POWER	1
61	BRACKET POWER	1
62	CASE REAR POLE DISPLAY	1
63	PLATE B BRACKET POLE	1
64	BRACKET POLE STAND	1
65	POLE STAND	1
66	CASE LINK POLE	1
67	PLATE LINK POLE	4
68	CASE REAR POLE DISPLAY	1
69	PK-263	1
70	LCD	1
71	CASE FRONT POLE DISPLAY	1
72	SHEET DISPLAY PANEL	1
73	SCREW 'SEAL'	1
74	HARNESS 'C2' POWER	1
75	STICKER 'M'	1
76	NAME PLATE SPEC	1
77	STICKER LOCATION OUTPUT	1
78	USB GASKET	1
79	SHEET DOUBLE TAPE	1
80	VIBRATION MOTOR	1
81	BRACKET LCD	1

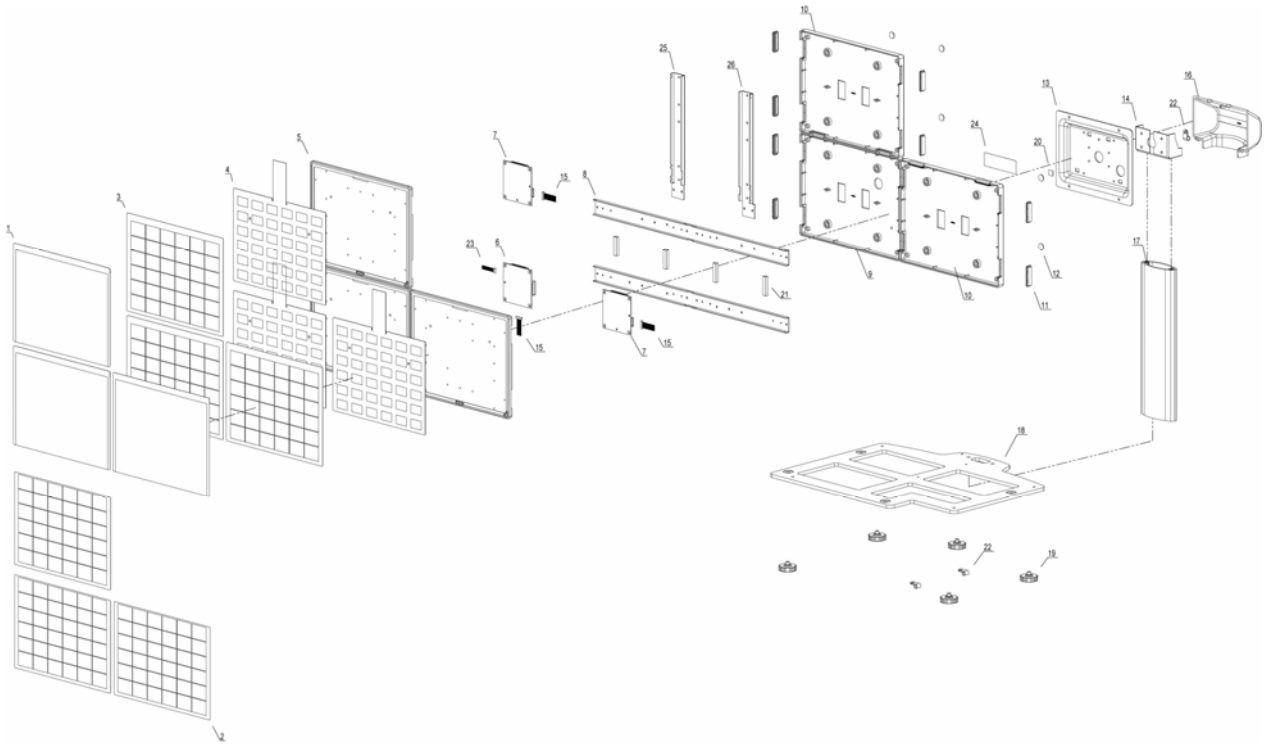
2.3 BAKERY TYPE



Parts List (Bakery Type)

NO.	PART NAME	Q'TY	NO.	PART NAME	Q'TY
1	COVER UPPER ASSEMBLY	1	31	BRACKET LCD	1
2	CVOER PRINTER UPPER	1	32	SHEET DOUBLE TAPE	1
3	L PLATE RIGHT	1	33	GASKET 115mm	1
4	L PLATE LEFT	1	34	TFT LCD TOUCH	1
5	CASE MAIN UPPER	1	35	CASE FRONT CONTROLL	1
6	COVER PRINTER UPPER	1	36	VIBRATOR ASSEMBLY	2
7	COVER HINGE LOWER	1	37	KEY BOARD MEMBRANE	1
8	COVER HINGE UPPER	1	38	SHEET KEY BOARD-SETTING	1
9	LEVEL LENS	1	39	SHEET KEY BOARD-PLU	1
10	NAME PLATE SPEC	1	40	COVER KEY BOARD	1
11	CASE PANEL REAR	1	41	COVER BRACKET CONNECTOR	1
12	CASE REAR COVER	1	42	COVER SWITCH	1
13	BRACKET POWER	1	43	HARNESS C4 SWITCH ASSEMBLY	1
14	POWER SUPPLY	1	44	BRACKET CONNECTOR ASSEMBLY	1
15	BASE	1	45	PWB PK-265*	1
16	BLOCK B HINGE SIDE COVER	1	46	HARNESS S2 5V POWER	1
17	COVER SIDE	1	47	HARNESS S2 LAN	1
18	FOOT LEVEL	4	48	ANTENNA FOR WIRELESS LAN	1
19	PLATE B MAGNETIC	1	49	STICKER LOCATION OUTPUT	1
20	PLATE B RS232C	1	50	STICKER SEAL	1
21	HARNESS C2 POWER ASSEMBLY	1	51	GASKET 20mm	1
22	BRACKET TORQUE HINGE	1	52	PWB PK-260*	1
23	HINGE R	1	53	INSULATION SHEET	1
24	HINGE L	1	54	ACCESSORY PWB GUIDE SPA	2
25	FERRITE CORE	3	55	HARNESS S2 24V DC POWER	1
26	EARTH CLAMP	2	56	FERRITE CORE	1
27	CASE REAR CONTROLL	1	57	DOUBLE TAPE	1
28	PWB PK-261*	1	58	FERRITE CORE	1
29	HARNESS S2 FRONT LCD	1	59	BRACKET LCD	1
30	PCB SUPPORT	2			

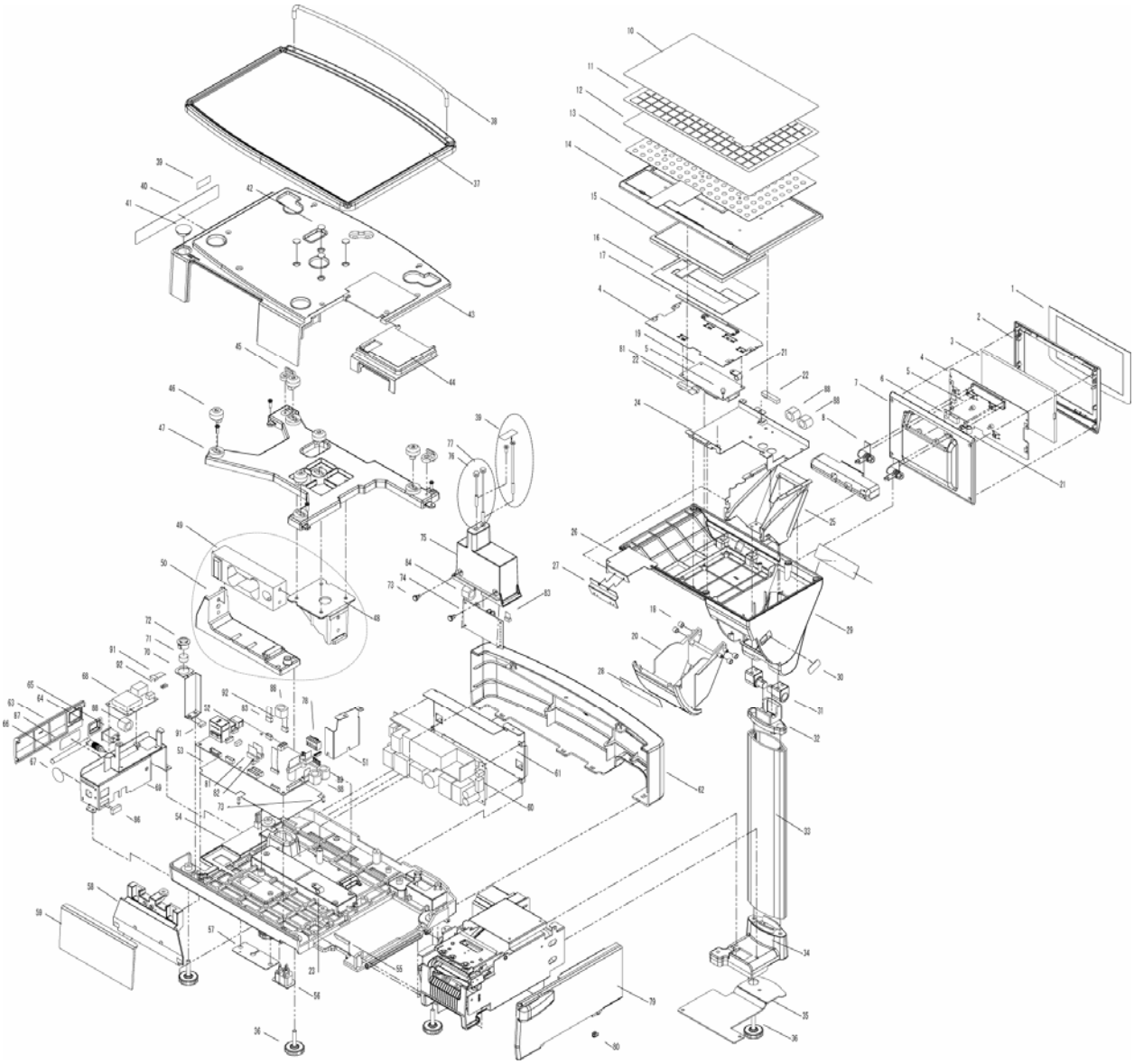
2.4 SELF-SERVICE TYPE



Parts List (Self-service Type)

NO.	PART NAME	Q'TY	NO.	PART NAME	Q'TY
1	COVER KEYBOARD	3	14	BRACKET POLE STAND	1
2	SHEET KEYBOARD PLU	3	15	HARNESS S2 KEY	2
3	SHEET KEYBOARD SETTING	3	16	COVER JOINT	1
4	SHEET KEYBOARD MEMBRANE	3	17	POLE STAND	1
5	CASE FRONT KEY UNIT	3	18	BASE	1
6	PWB PK-266*	1	19	FOOT ADJUST	5
7	PWB PK-267*	2	20	BUMPON	1
8	FRAME KEY UNIT	2	21	VIBRATOR ASSEMBLY	6
9	CASE REAR KEY UNIT	1	22	CABLE CLAMP	3
10	CASE REAR KEY UNIT	2	23	HARNESS C2 SERIAL	1
11	CAP RECTANGLE	8	24	NAME PLATE SPEC	1
12	CAP	8	25	FRAME KEY UNIT-L	1
13	BRACKET KEY UNIT	1	26	FRAME KEY UNIT-R	1

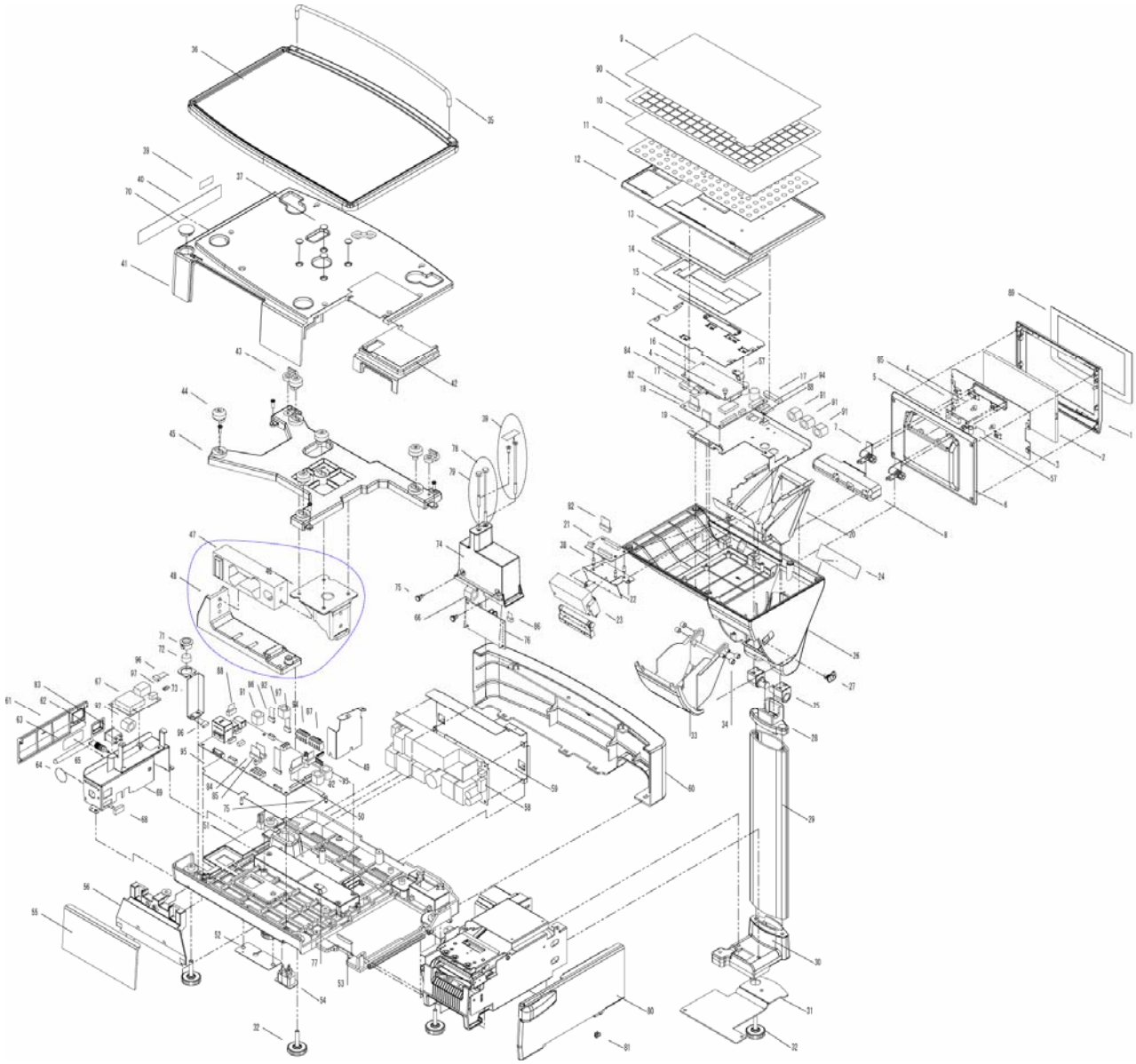
2.5 ELEVATED SINGLE PRINTER TYPE



Parts List (Elevated Single Printer type)

NO.	PART NAME	Q'TY	NO.	PART NAME	Q'TY
1	LCD SHEET	1	47	PLATTER SUPPORT	1
2	CASE FRONT POLE DISPLAY	1	48	BRACKET PLATTER SUPPORT	1
3	LCD	1	49	LOADCELL	1
4	BRACKET LCD	2	50	BRACKET LOADCELL	1
5	ACCESSROY PCB SUPPORT	4	51	COVER HARNESS	1
6	PWB PK-263*	1	52	PWB PK-260*	1
7	CASE REAR POLE	1	53	SHIELD PLATE	1
8	HINGE R	2	54	BASE	1
9	COVER JOINT REAR	1	55	PLATE B MAGNETIC	1
10	SHEET DISPLAY PANEL	1	56	HARNESS 'C2' POWER ASSEMBLY	1
11	SHEET KEY BOARD-PLU	1	57	PLATE B RS232C	1
12	SHEET KEY BOARD	1	58	BRACKET TORQUE HINGE	1
13	KEY BOARD MEMBRANE	1	59	COVER FRONT ELEVATE	1
14	CASE FRONT CONTROL	1	60	POWER SUPPLY	1
15	LCD TOUCH	1	61	BRACKET POWER	1
16	SHEET DOUBLE TAPE	1	62	CASE REAR POLE	1
17	GASKET 115mm	1	63	COVER BRACKET CONNECTOR	1
18	COLLAR SPACER	4	64	COVER SWITCH	1
19	PWB PK-261*	1	65	SWITCH	1
20	CASE PRINTER	1	66	ANTENNA	1
21	E ARTH CLAMP	2	67	STICKER 'SEAL'	1
22	VIBRATOR ASSEMBLY	2	68	PWB PK-265*	1
23	EARTH CLAMP	1	69	BRACKET CONNECTOR ASSEMBLY	1
24	FRAME PRINTER UPPER	1	70	BRACKET LEVEL	1
25	FRAME PRINTER	1	71	LEVEL UNIT	1
26	HOLDER COVER	1	72	FRAME LEVEL	1
27	BRACKET COVER	1	73	ACCESSROY PCB SUPPORT	4
28	PANEL COVER	2	74	PWB P-999B	1
29	CASE CONTROL REAR	1	75	CASE AD BOARD	1
30	PANEL BUTTON	1	76	SCREW 'SEAL' HEXA	1
31	BUSH TORQUE	2	77	SCREW 'SEAL' HEXA	1
32	BRACKET CONTROL	1	78	HARNESS S2 24V DC	1
33	POLE STAND	1	79	COVER SIDE	1
34	BRACKET POLE STAND	1	80	BLOCK B HINGE SIDE COVER	1
35	PLATE B BRACKET POLE	1	81	HARNESS S2 FRONT LCD(EV)	1
36	FOOT LEVEL	5	82	HARNESS S2 REAR LCD	1
37	PLATTER ASS	1	83	HARNESS 'C2' A/D	1
38	GUIDE PLATE	1	84	FERRITE CORE	1
39	STICKER VOID	2	85	HARNESS 'C2' POWER ASS'Y	1
40	NAME PLATE SPEC	1	86	GASKET 20mm	1
41	LEVEL LENS	1	87	STICKER LOCATION OUTPUT	1
42	CAP	4	88	FERRITE CORE	2
43	CASE MAIN UPPER	1	89	FERRITE CORE	3
44	COVER PRINTER UPPER	1	90	FERRITE CORE	1
45	BLOCK B HINGE PLATTER	2	91	HARNESS S2 LAN	1
46	RUBBER PLATTER SUPPORT	5	92	HARNESS S2 5V POWER	1

2.6 ELEVATED DUAL PRINTER TYPE

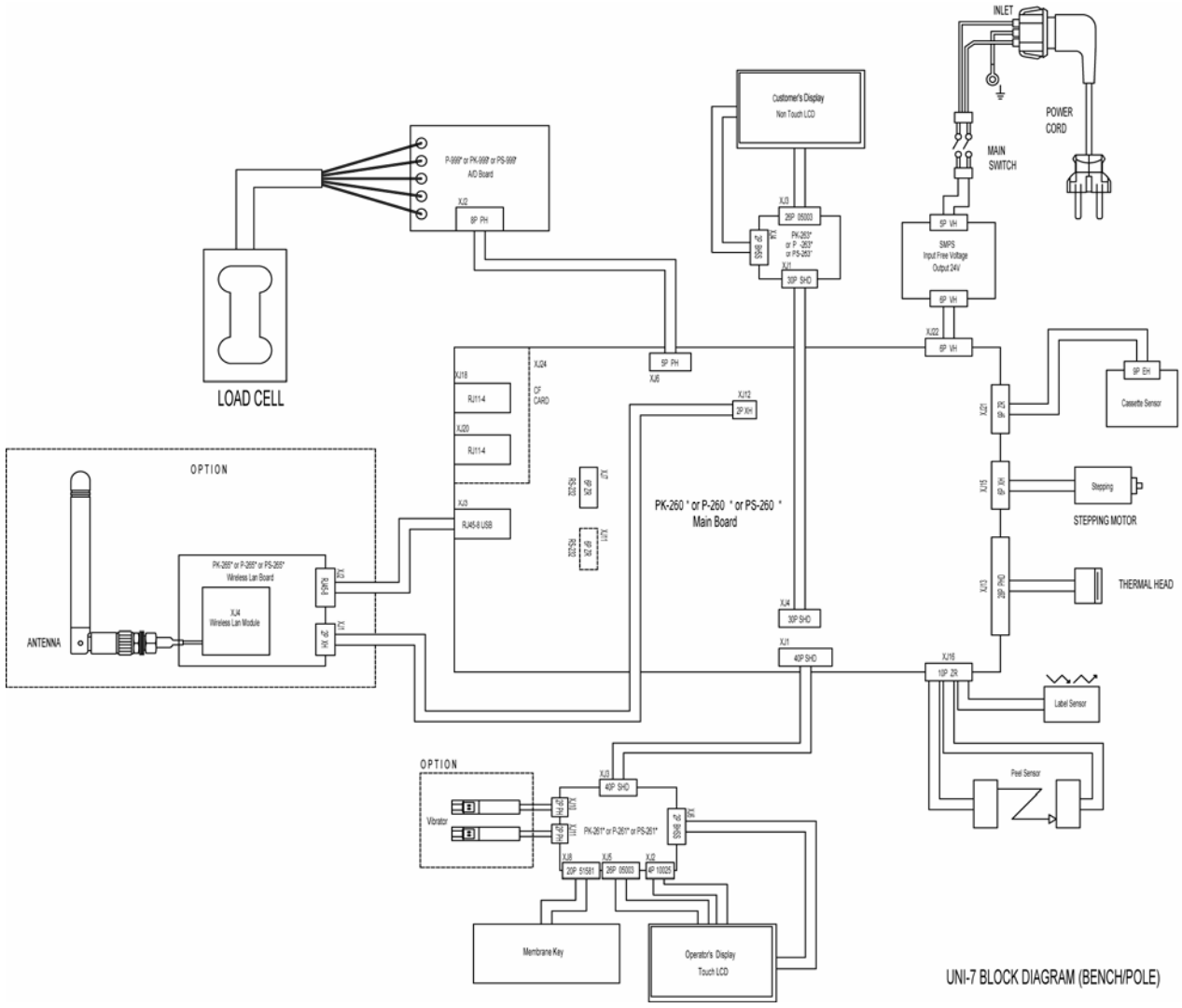


Parts List (Elevated Dual Printer Type)

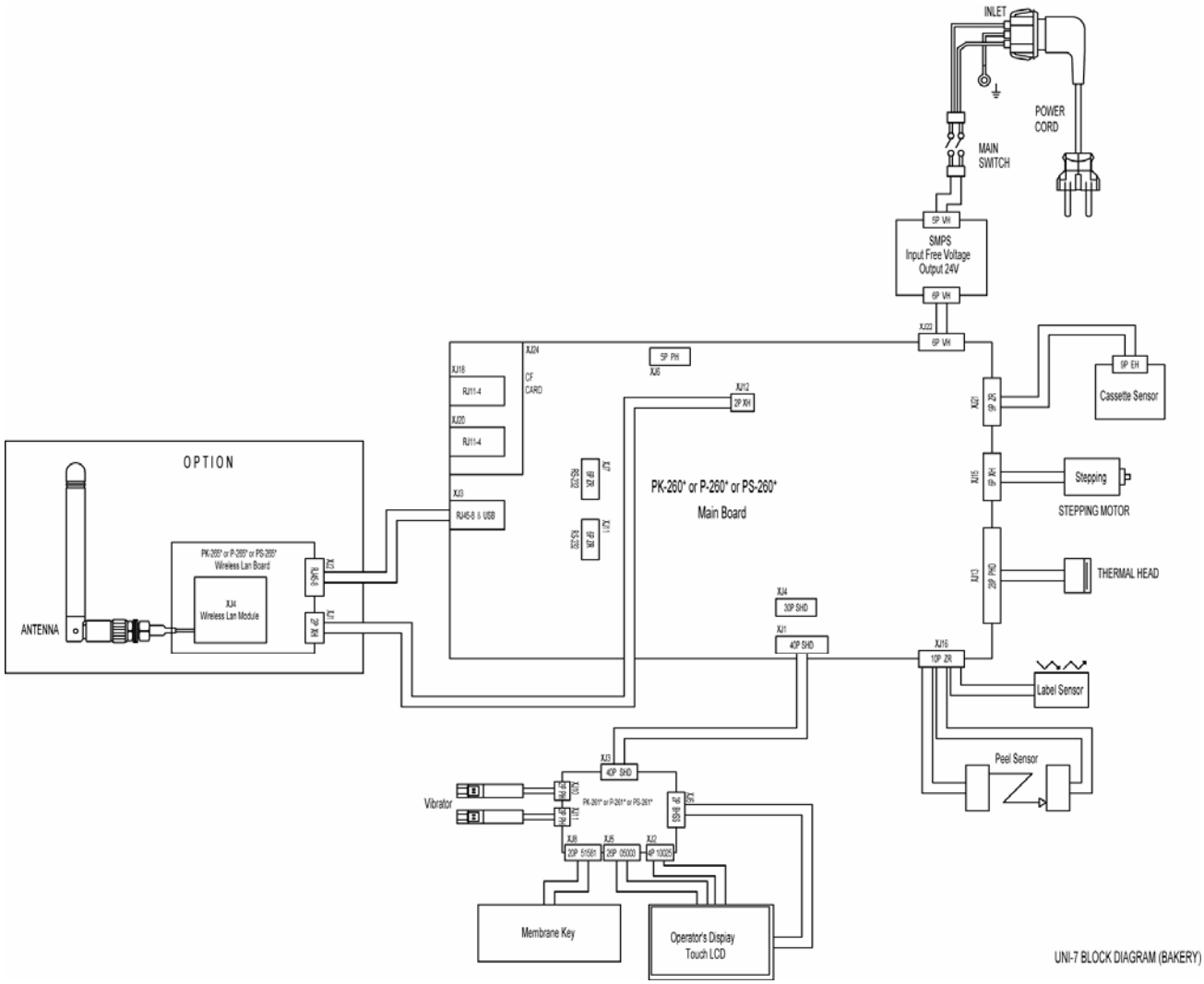
NO.	PART NAME	Q'TY	NO.	PART NAME	Q'TY
1	CASE FRONT POLE DISPLAY	1	50	PWB PK-260*	1
2	LCD	1	51	BASE	1
3	BRACKET LCD	2	52	PLATE B RS232C	1
4	ACCESSROY PCB SUPPORT	4	53	PLATE B MAGNETIC	1
5	PWB PK-263*	1	54	HARNESS 'C2' POWER ASSEMBLY	1
6	CASE REAR POLE DISPLAY	1	55	COVER FRONT ELEVATE	1
7	HINGE R	2	56	BRACKET TORQUE HINGE	1
8	COVER JOINT REAR	1	57	E ARTH CLAMP	2
9	SHEET DISPLAY PANEL	1	58	POWER SUPPLY	1
10	SHEET KEY BOARD	1	59	BRACKET POWER	1
11	KEY BOARD MEMBRANE	1	60	CASE REAR POLE	1
12	CASE FRONT CONTROL	1	61	COVER BRACKET CONNECTOR	1
13	LCD TOUCH	1	62	COVER SWITCH	1
14	SHEET DOUBLE TAPE	1	63	STICKER LOCATION OUTPIT	1
15	GASKET 115mm	1	64	STICKER 'SEAL'	1
16	PWB PK-261*	1	65	ANTENNA	1
17	VIBRATOR ASSEMBLY	2	66	FERRITE CORE	1
18	PWB PK-268*	1	67	PWB PK-265*	1
19	FRAME PRINTER UPPER	1	68	GASKET 20mm	1
20	FRAME PRINTER	1	69	BRACKET CONNECTOR ASSEMBLY	1
21	PWB PK-269*	1	70	LEVEL LENS	1
22	BRACKET PRINTER UNIT	1	71	FRAME LEVEL	1
23	PRINTER MODULE ASSEMBLY	1	72	LEVEL UNIT	1
24	PANEL COVER	1	73	BRACKET LEVEL	1
25	BUSH TORQUE	2	74	CASE AD BOARD	1
26	CASE CONTROL REAR	1	75	ACCESSROY PCB SUPPORT	4
27	BUTTON PRINTER	1	76	PWB P-999*	1
28	BRACKET CONTROL	1	77	EARTH CLAMP	1
29	POLE STAND	1	78	SCREW 'SEAL' HEXA	1
30	BRACKET POLE STAND	1	79	SCREW 'SEAL' HEXA	1
31	PLATE B BRACKET POLE	1	80	COVER SIDE	1
32	FOOT LEVEL	5	81	BLOCK B HINGE SIDE COVER	1
33	CASE PRINTER	1	82	HARNESS S2 HEAD	1
34	COLLAR SPACER	4	83	HARNESS C4 SWITCH ASSEMBLY	1
35	GUIDE PLATE	1	84	HARNESS S2 FRONT LCD	1
36	PLATTER ASSEMBLY	1	85	HARNESS S2 REAR LCD	1
37	CAP	4	86	HARNESS 'C2' A/D	1
38	PCB SUPPORT	1	87	HARNESS S2 24V DC	1
39	STICKER VOID	2	88	HARNESS 'C2' USB	1
40	NAME PLATE SPEC	1	89	LCD SHEET	1
41	CASE MAIN UPPER	1	90	SHEET KEY BOARD-PL U	1
42	COVER PRINTER UPPER	1	91	FRRITE CORE	4
43	BLOCK B HINGE PLATTER	2	92	FRRITE CORE	3
44	RUBBER PLATTER SUPPORT	5	93	FRRITE CORE	1
45	PLATTER SUPPORT	1	94	HARNESS 'S 2' 24V DC	1
46	BRACKET PLATTER SUPPORT	1	95	INSULATION SHEET	1
47	LOADCELL	1	96	HARNESS S2 LAN	1
48	BRACKET LOADCELL	1	97	HARNESS S2 5V POWER	1
49	COVER HARNESS	1			

3 BLOCK DIAGRAMS

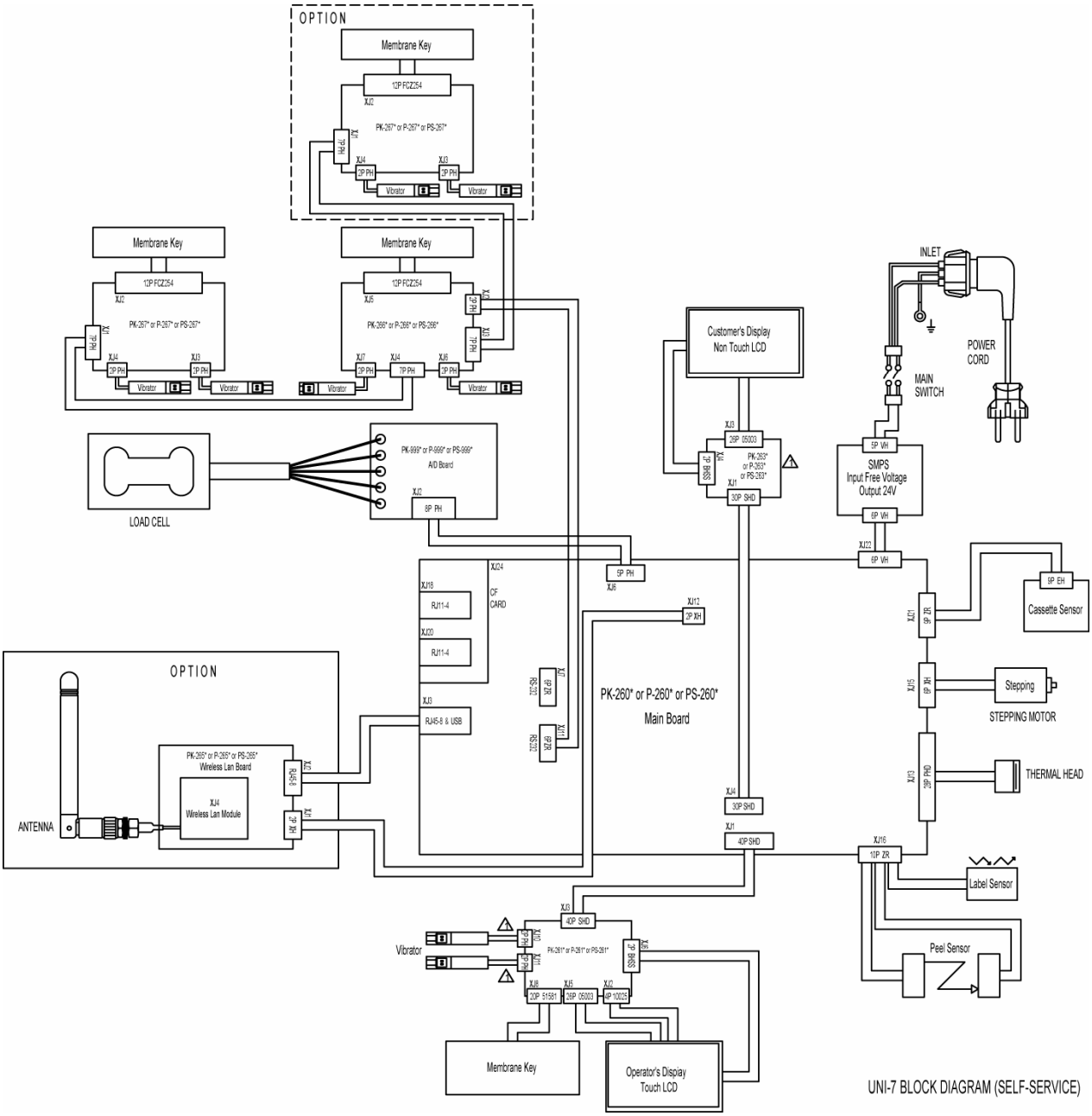
3.1 BLOCK DIAGRAM (BENCH/POLE TYPE)



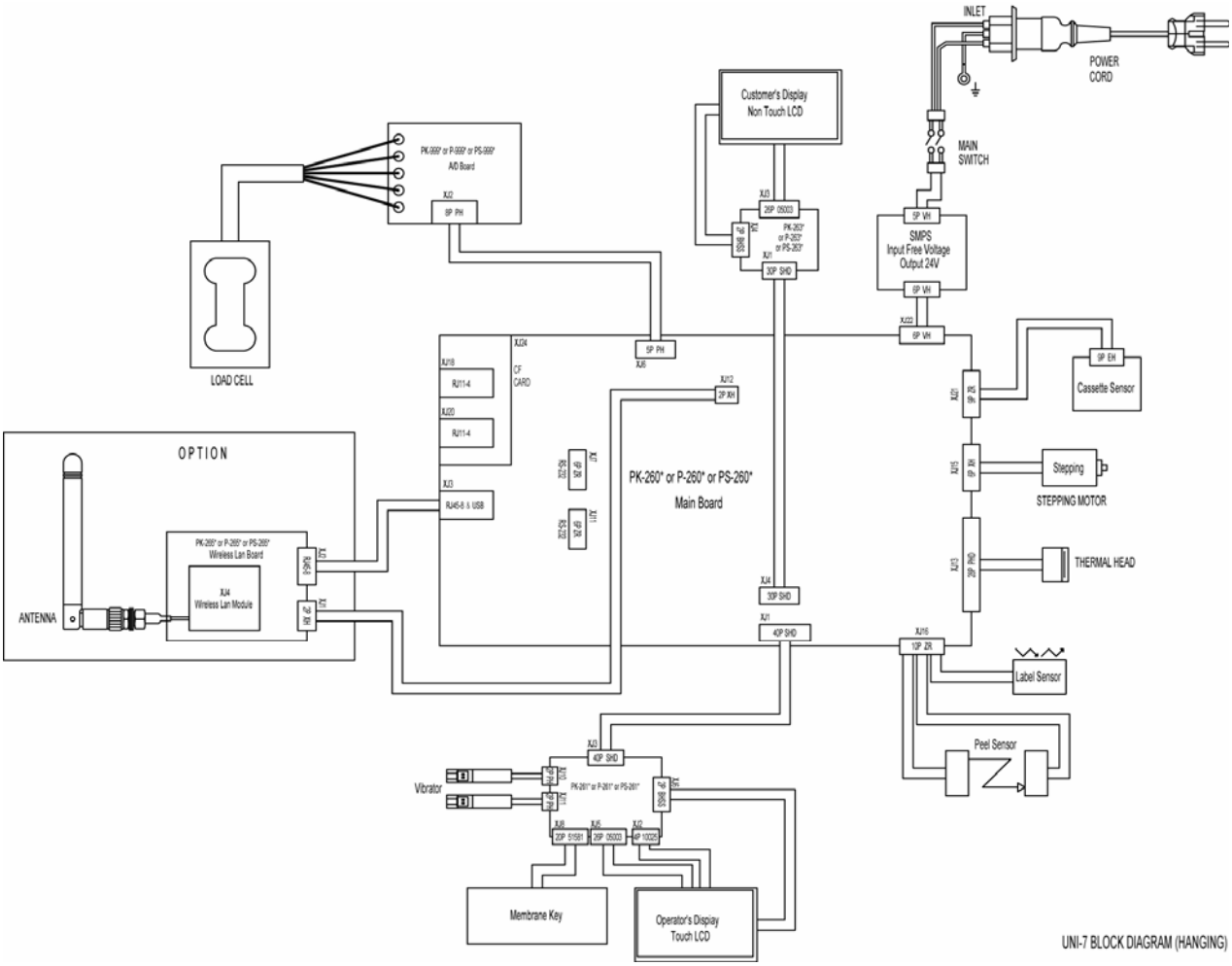
3.2 BLOCK DIAGRAM (BAKERY TYPE)



3.3 BLOCK DIAGRAM (SELF-SERVICE TYPE)



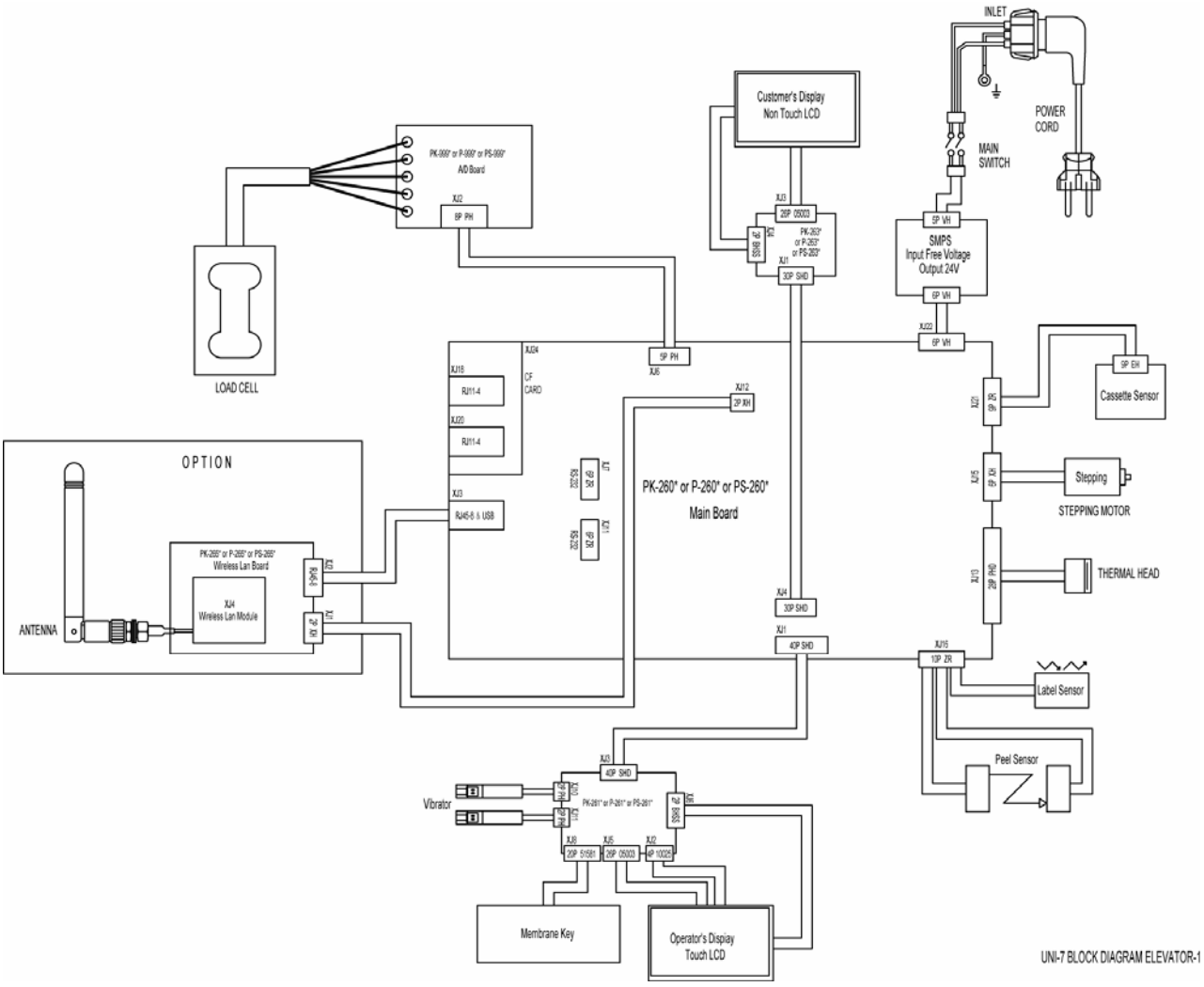
3.4 BLOCK DIAGRAM (HANGING TYPE)



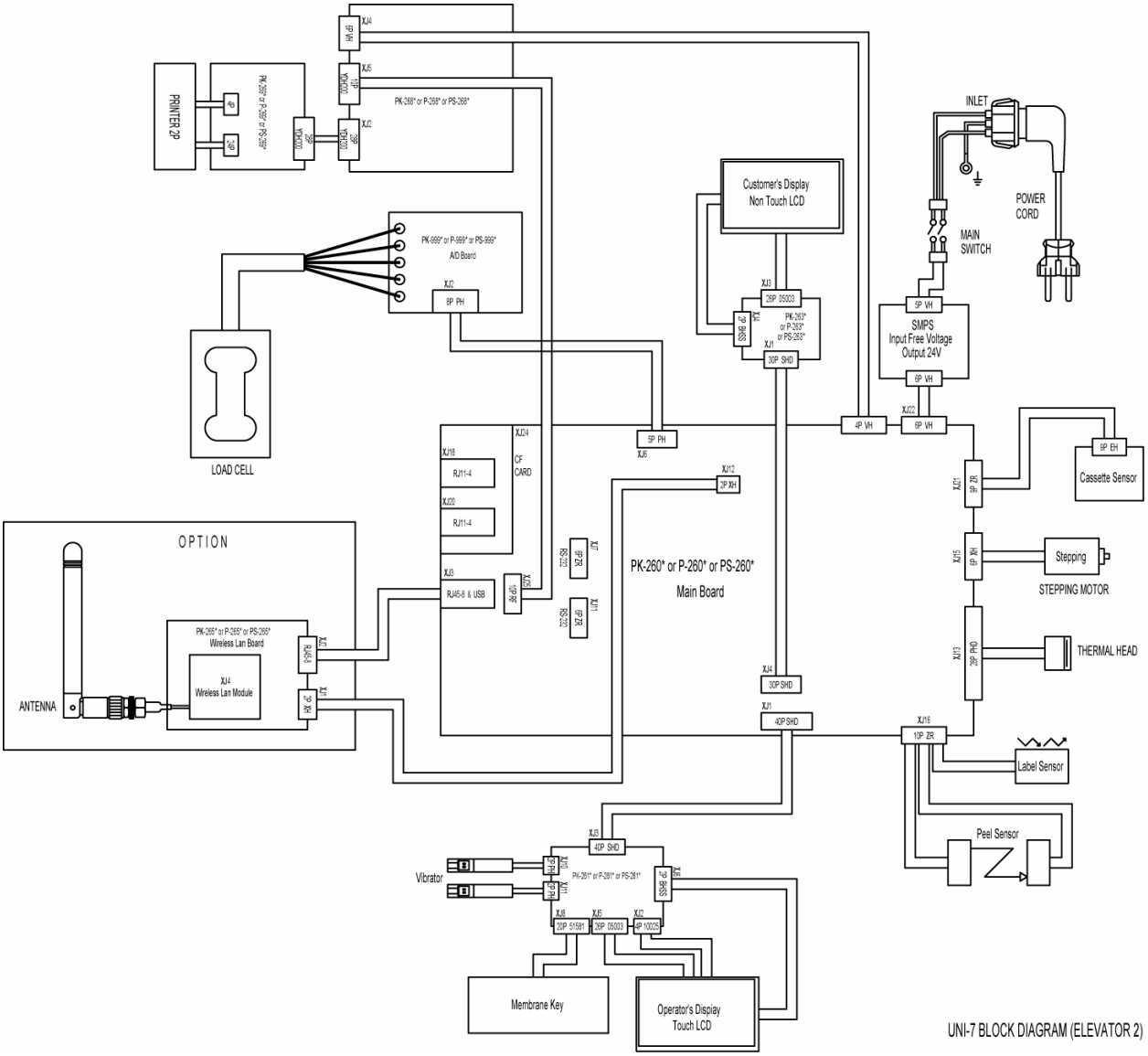
UNI-7 BLOCK DIAGRAM (HANGING)

3.5 BLOCK DIAGRAM (ELEVATED TYPE)

■ Single Printer



■ Dual Printer



4 ELECTRICAL SIGNALS

4.1 MAIN BOARD (PK-260)

Before replacing the main board PK-260, make sure to turn ON the battery switch and every switch 1 is turned OFF.

XJ1

No.	Signal Name	Direction	Opposite Side
1,2,5,7,9,11,14, 16,18,25,26,40	GND	-	PK-261(XJ3)
3,4	DC+5V power supply for LCD	→	
6,8,10,12,13, 15,17,19,20	LCD control signal	→	
21,22	AC power supply for LCD	-	
23	DC-10V power supply for LCD	-	
24	DC+15V power supply for LCD	-	
27	DC+15V power supply for LCD backlight	-	
28,29	Light control signal for LCD backlight	←	
30	External buzzer signal	→	
31	Vibration signal	→	
32,33	DC+5V	-	
34 - 39	Membrane key control signal	←→	

XJ2

No.	Signal Name	Direction	Opposite Side
1 - 14	Debug signal	←→	Unused

XJ3

No.	Signal Name	Direction	Opposite Side
USB-1	Vbus	-	LAN, USB memory
USB-2	D-	←→	
USB-3	D+	←→	
USB-4	GND	-	
LAN-1	TX+	→	
LAN-2	TX-	→	
LAN-3	RX+	←	
LAN-4	Not connected		
LAN-5	Not connected		
LAN-6	RX-	←	
LAN-7	Not connected	-	
LAN-8	Not connected	-	

XJ4

No.	Signal Name	Direction	Opposite Side
1,2,5,7,9,11, 14,16,29,30	GND	-	PK-263(XJ1)
3,4	DC+5V power supply for LCD	-	
6,8,10,12,13, 15,17,18,19	LCD control signal	→	
20,21	AC power supply for LCD	-	
22	DC-10V power supply for LCD	-	
23	DC+15V power supply for LCD	-	
26	DC+15V power supply for LCD backlight	-	
27,28	Light control signal for LCD backlight	→	
24,25	DC+5V	-	

XJ6

No.	Signal Name	Direction	Opposite Side
1	D#		P-999
2	D		
3	DC+12V		
4	GND		
5	FG		

XJ7

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Unused
2	GND	-	
3	TxD	→	
4	RTS	→	
5	RxD	←	
6	CTS	←	

XJ8

No.	Signal Name	Direction	Opposite Side
1	BAT+	-	Unused
2	GND	-	

XJ9

No.	Signal Name	Direction	Opposite Side
1 - 6	For CPLD writing	←→	Unused

XJ10

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Unused
2	GND	-	

XJ11

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Unused
2	GND	-	
3	TxD	→	
4	RTS	→	
5	RxD	←	
6	CTS	←	

XJ12

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Unused
2	GND	-	

XJ13

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Thermal head
2	GND	-	
3,4,6,7,8, 9,10,27	Thermal head control signal	←→	
11,12	Thermistor input signal	←	
20,21,22,23, 24,25,26	DC+24V	-	
13,14,15,16, 17,18,19	GND	-	

XJ15

No.	Signal Name	Direction	Opposite Side
1	B#	→	Stepping motor for label feeding
2	B	→	
3	A#	→	
4	A	→	
5,6	DC+24V	-	

XJ16

No.	Signal Name	Direction	Opposite Side
1	Peel sensor DC+5V	-	Peel sensor Label sensor
2	Peel sensor LED_GND	-	
3	Peel sensor LED_VCC	-	
4	Peel sensor SENS_IN	←	
5	Peel sensor GND	-	
6	Label sensor DC+5V	-	
7	Label sensor LED_GND	-	
8	Label sensor LED_VCC	-	
9	Label sensor SENS_IN	-	
10	Label sensor GND	-	

XJ18

No.	Signal Name	Direction	Opposite Side
1	Unused	-	Cash drawer 2
2	DC+24V for drawer	-	
3	GND	-	
4	Unused	-	

XJ20

No.	Signal Name	Direction	Opposite Side
1	Unused	-	Cash drawer 1
2	DC+24V for drawer	-	
3	GND	-	
4	Unused	-	

XJ21

No.	Signal Name	Direction	Opposite Side
1	Cassette 0 LED	-	Cassette sensor
2	Cassette 0 SENS_IN	←	
3	Cassette 1 LED	-	
4	Cassette 1 SENS_IN	←	
5	Cassette 2 LED	-	
6	Cassette 2 SENS_IN	←	
7	Cassette 3 LED	-	
8	Cassette 3 SENS_IN	←	
9	GND	-	

XJ22

No.	Signal Name	Direction	Opposite Side
1,2,3	DC+24V main power supply	-	Switching power supply
4,5,6	GND	-	

XJ23

No.	Signal Name	Direction	Opposite Side
1,2	DC+24V	-	Unused
3,4	GND	-	

XJ24

No.	Signal Name	Direction	Opposite Side
13,38	DC+3.3V	-	
1,50	GND	-	
Others	CF control signal	←→	

XJ25

No.	Signal Name	Direction	Opposite Side
2	USB_VBUS	-	
4	USB_D+	←→	
6	USB_D-	←→	
8	USB_GND	-	
10	NONE	-	
1	VBUS	-	
3	D+	←→	
5	D-	←→	
7	GND	-	

4.2 KEY/LCD BOARD (PK-261)

XJ1

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Unused
2	MODE	→	
3	RESET	←	
4	Unused	-	
5,6	GND	-	

XJ2

No.	Signal Name	Direction	Opposite Side
1	X1	→←	Touch panel
2	X2	→←	
3	Y1	→←	
4	Y2	→←	

XJ3

No.	Signal Name	Direction	Opposite Side
1,2,5,7,9,11,14, 16,18,25,26,40	GND	-	PK-260(XJ1)
3,4	DC+5V power supply for LCD	→	
6,8,10,12,13, 15,17,19,20	LCD control signal	→	
21,22	AC power supply for LCD	-	
23	DC-10V power supply for LCD	-	
24	DC+15V power supply for LCD	-	
27	DC+15V power supply LCD backlight	-	
28,29	Light control signal for LCD backlight	←	
30	External buzzer signal	→	
31	Vibration signal	→	
32,33	DC+5V	-	
34 - 39	Membrane key control signal	←→	

XJ4

No.	Signal Name	Direction	Opposite Side
1	GND	-	Unused
2	DIM	→	
3	DC+5V	-	

XJ5

No.	Signal Name	Direction	Opposite Side
2,20	DC+5V	-	LCD
1,21	GND	-	
25	DC+5V power supply for LCD	-	
26	LCD GND	-	
10,11	AC power supply for LCD	-	
3	DC-10V power supply for LCD	-	
4	DC+15V power supply for LCD	-	
Others	LCD control signal	←→	

XJ6

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	LCD backlight
2	GND	-	

XJ8

No.	Signal Name	Direction	Opposite Side
1,2,3,4, 5,6,7,8	Key scanning KS0 - KS7	→	Membrane key
9,10,11,12, 13,14,15,16, 17,18,19	Key data KD0 - KD10	←	
20	Unused	-	

XJ9

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Unused
2	GND	-	

XJ10,11

No.	Signal Name	Direction	Opposite Side
1	DC+5V for vibration	-	Vibration unit
2	GND	-	

4.3 LCD BOARD (PK-263)

XJ1

No.	Signal Name	Direction	Opposite Side
1,2,5,7,9,11, 14,16,29,30	GND	-	PK-260(XJ4)
3,4	DC+5V power supply for LCD	-	
6,8,10,12,13, 15,17,18,19	LCD control signal	→	
20,21	AC power supply for LCD	-	
22	DC-10V power supply for LCD	-	
23	DC+15V power supply for LCD	-	
26	DC+15V power supply for LCD backlight	-	
27,28	Light control signal for LCD backlight	→	
24,25	DC+5V	-	

XJ2

No.	Signal Name	Direction	Opposite Side
1	GND	-	Unused
2	DIM	→	
3	DC+5V	-	

XJ3

No.	Signal Name	Direction	Opposite Side
2,20	DC+5V	-	LCD
1,21	GND	-	
25	DC+5V power supply for LCD	-	
26	LCD GND	-	
10,11	AC power supply for LCD	-	
3	DC-10V power supply for LCD	-	
4	DC+15V power supply for LCD	-	
Others	LCD control signal	←→	

XJ4

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	LCD backlight

4.4 WIRELESS LAN BOARD (PK-265)

XJ1

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	PK-260 XJ12
2	GND	-	

XJ2

No.	Signal Name	Direction	Opposite Side
1	TX+	→	PK-260 XJ3
2	TX-	→	
3	RX+	←	
6	RX-	←	
10	LEDR	-	
11	LEDL	-	
4,7,13,14	GND	-	
9,12	DC+3.3V	-	

4.5 SELF-SERVICE MASTER BOARD (PK-266)

XJ1

No.	Signal Name	Direction	Opposite Side
1	CNVss	-	Unused
2,4,6,10,12,14,	GND	-	
3,9	NC	-	
5	TxD	→	
7	MODE	→	
8	DC+5V	-	
11	RxD	←	
13	RESET	←	

XJ2

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	PK-260 XJ11
2	TxD	→	
3	RxD	←	
4	P_GND	-	

XJ3/XJ4

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	PK-267 XJ1
2	GND	-	
3,4,5,6	Membrane key control signal	←→	

XJ5

No.	Signal Name	Direction	Opposite Side
1,2,3,4,5,6	Key scan KS0 - KS5	→	Membrane key
7,8,9,10,11,12	Key data KD0 - KD5	←	

XJ6/XJ7

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Vibration unit
2	GND	-	

4.6 SELF-SERVICE MASTER BOARD (PK-267)

XJ1

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	PK-266 XJ3/XJ4
2	GND	-	
3,4,5,6	Membrane key control signal	←→	

XJ2

No.	Signal Name	Direction	Opposite Side
1,2,3,4,5,6	Key scan KS0 - 5	→	Membrane key
7,8,9,10,11,12	Key data KD0 - 5	←	

4.7 THERMAL BOARD (PK-268)

XJ2

No.	Signal Name	Direction	Opposite Side
1	PS (Paper sensor receiver)	←	PK-269 XJ1
2	VPS (Paper sensor receiver)	→	
3,4,11,12, 13,14,25	GND	-	
5	HS(platen position sensor)	←	
6,19,20	DC+24V(Head drive power supply)	-	
7,8,9,16, 17,18	Thermal head control signal	←→	
10	DC+5V	-	
15	TH (Thermistor input signal)	←	
21	MOTOR_A	→	
22	MOTOR_B	→	
23	MOTER_A#	→	
24	MOTER_B#	→	
26	CUTS (Cutter sensor)	←	
27	CUTB (Cutter motor)	→	
28	CUTA (Cutter motor)	→	

XJ4

No.	Signal Name	Direction	Opposite Side
1	CD+24V	-	PK-260 XJ23
2	DC+24V	-	
3	DC+24V	-	
4	GND	-	
5	GND	-	
6	GND	-	

XJ5

No.	Signal Name	Direction	Opposite Side
1	D_Vbus	-	PK-260 XJ25
2	U_Vbus	-	
3	D_D-	←→	
4	U_D-	←→	
5	D_D+	←→	
6	U_D+	←→	
7	D_GND	-	
8	U_GND	-	
9	D_GND	-	
10	U_GND	-	

XJ6

No.	Signal Name	Direction	Opposite Side
1	D_Vbus (Port4)	-	Unused
2	D_Vbus (Port3)	-	
3	D_D- (Port4)	←→	
4	D_D- (Port3)	←→	
5	D_D+ (Port4)	←→	
6	D_D+ (Port3)	←→	
7	D_GND (Port4)	-	
8	D_GND (Port3)	-	
9	Key	-	
10	D_GND (Port3)	-	

XJ1

No.	Signal Name	Direction	Opposite Side
1	SG	-	Unused
2	DC+5V	-	
3,4,5,6,7,8	FROM write signal	←→	

4.8 THERMAL CONNECTOR BOARD (PK-268)

XJ1

No.	Signal Name	Direction	Opposite Side
1	VPS (Paper sensor emmiter)	←	PK-268 XJ2
2	PS (Paper sensor receiver)	→	
3,4,11,12, 13,14,26	GND	-	
5,19,20	DC+24V(Head drive power supply)	-	
6	HS (Platen position sensor)	→	
7,8,9,15, 17,18	Thermal head control signal	←→	
10	DC+5V	-	
16	TH (Thermistor input signal)	→	
21	MOTOR_B	←	
22	MOTOR_A	←	
23	MOTER_B#	←	
24	MOTER_A#	←	
26	CUTS (Cutter sensor)	→	
27	CUTB (Cutter motor)	←	
28	CUTA (Cutter motor)	←	

XJ2

No.	Signal Name	Direction	Opposite Side
1	GND	-	Printer unit
2	CUTS (Cutter sensor)	←	
3	CUTB (Cutter motor)	→	
4	CUTA (Cutter motor)	→	

XJ2

No.	Signal Name	Direction	Opposite Side
1	PS (Paper sensor receiver)	←	Printer unit
2	VPS (Paper sensor emmiter)	→	
3,4,11,12, 13,14,25	GND	-	
5	HS (Platen position sensor)	←	
6,19,20	DC+24V (Head drive power supply)	-	
7,8,9,16, 17,18	Thermal head control signal	←→	
10	DC+5V	— -	

No.	Signal Name	Direction	Opposite Side
15	TH (Thermistor input signal)	←	
21	MOTOR_A	→	
22	MOTOR_B	→	
23	MOTER_A#	→	
24	MOTER_B#	→	

4.9 SCALE BOARD (PK-999)

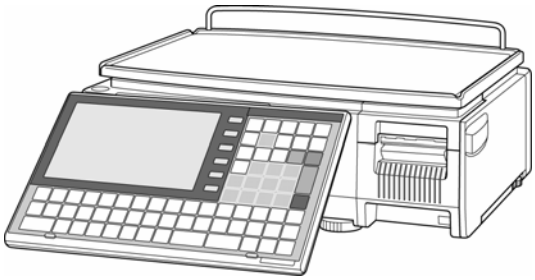
XJ2

No.	Signal Name	Direction	Opposite Side
1	D#		・PK-260
2	D		
3	DC+12V		
4	GND		
5	FG		
6	Not connected		
7	Not connected		
8	Not connected		

MACHINE DISASSEMBLY

5

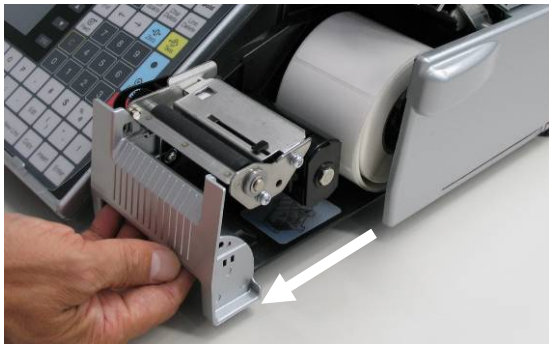
5.1 BENCH TYPE



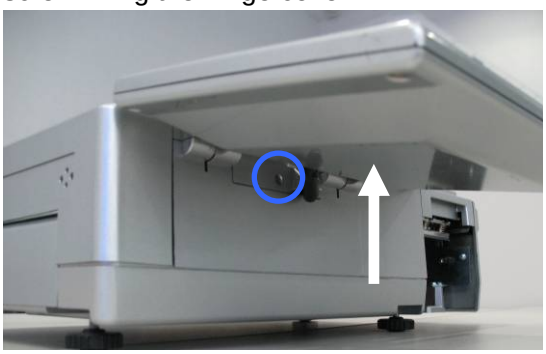
5.1.1 UPPER CASE

1. Hold up the front side of the weigh platter and pull to remove the platter.

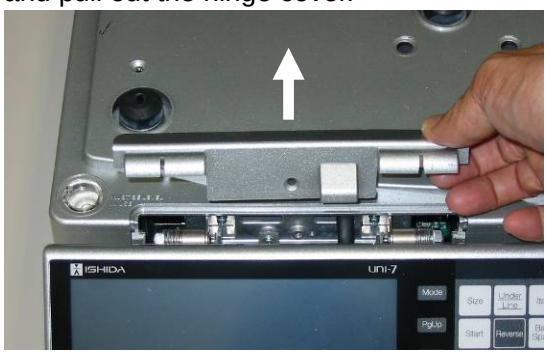
2. Pull out the cassette unit from the main unit.



3. Raise the operation panel and remove the screw fixing the hinge cover.

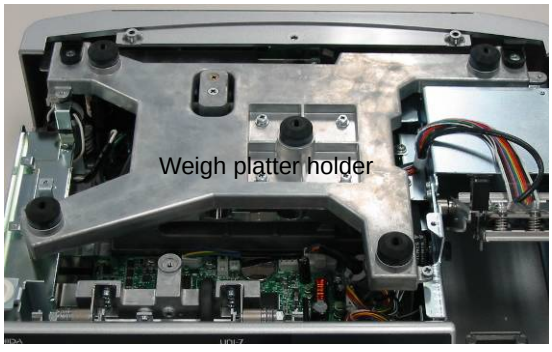


4. Make the operation panel angle about 45° and pull out the hinge cover.



5. Remove the five screws (blue), two tapping screws (red), and one TP screw (green).

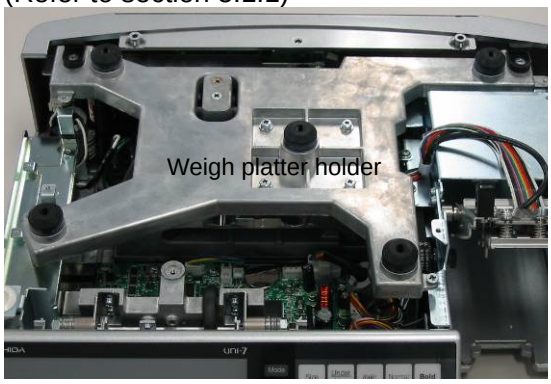
6. Remove the upper case.



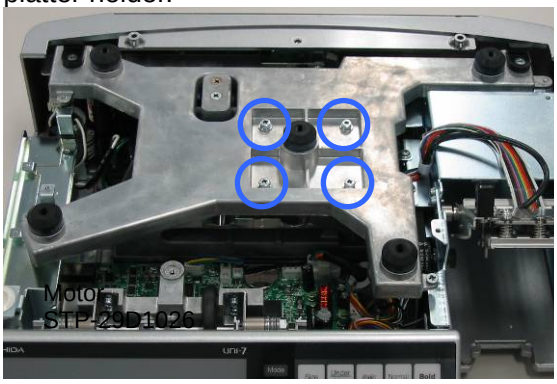
* Reverse this procedure for assembly.

5.1.2 WEIGH PLATTER HOLDER

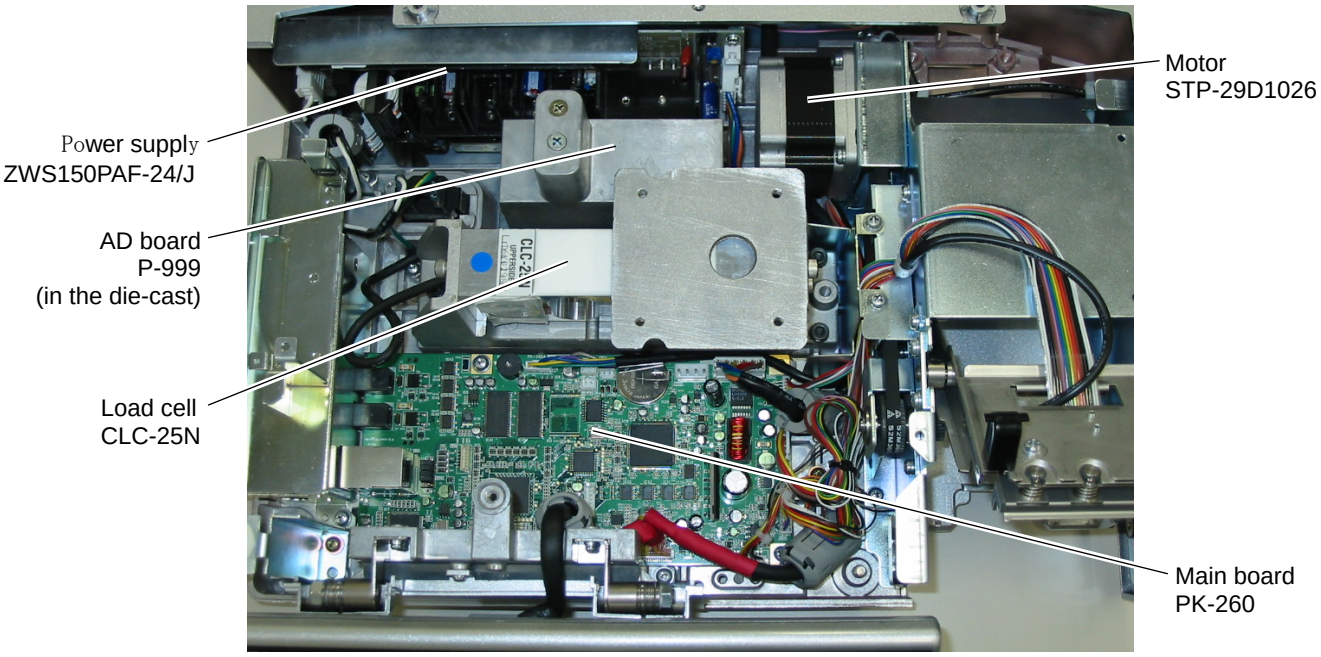
1. Make sure that the upper case is removed. (Refer to section 5.1.1)



2. Remove the four screws fixing the weigh platter holder.



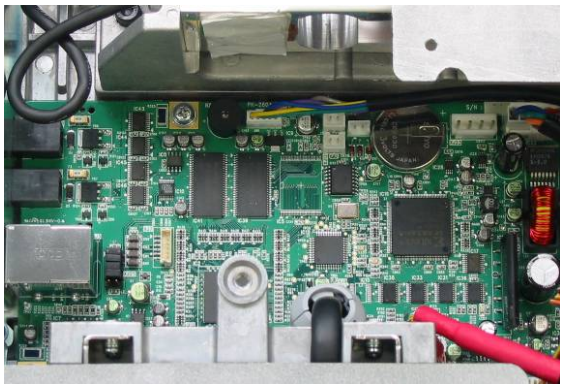
3. Remove the weigh platter holder.



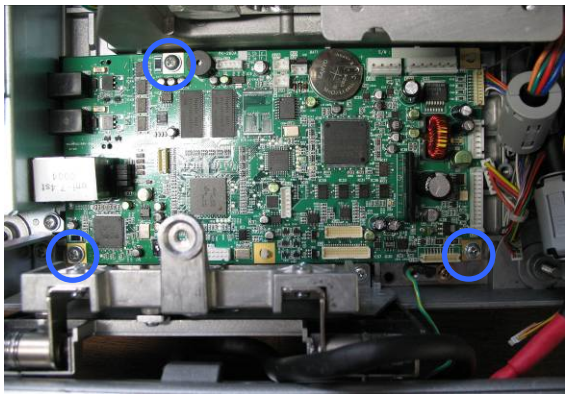
* Reverse this procedure for assembly.

5.1.3 MAIN BOARD

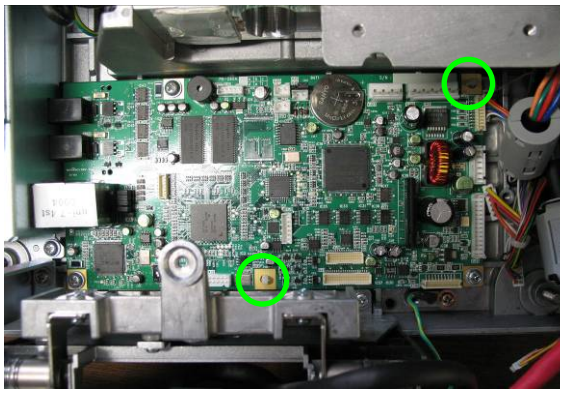
1. Unplug all harnesses connected to the main board.



2. Remove the three screws fixing the main board.



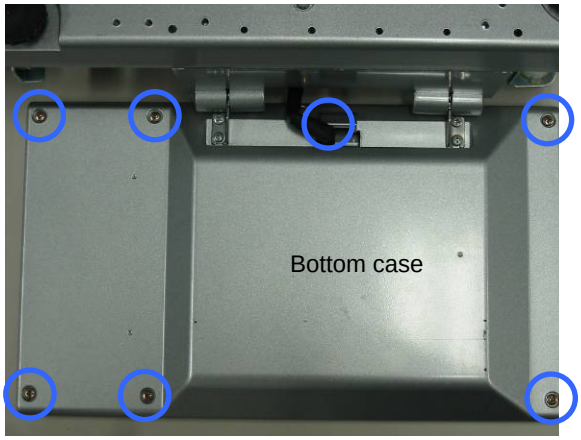
3. Squeeze the two spacers to remove the main board.



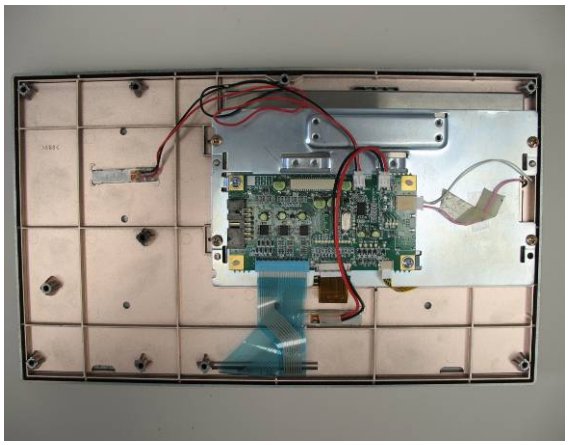
Reverse this procedure for assembly.

5.1.4 OPERATION PANEL

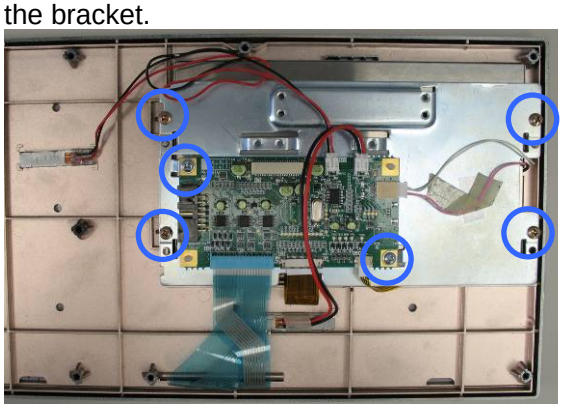
1. Remove the seven fixing screws located on the bottom of the operation panel.



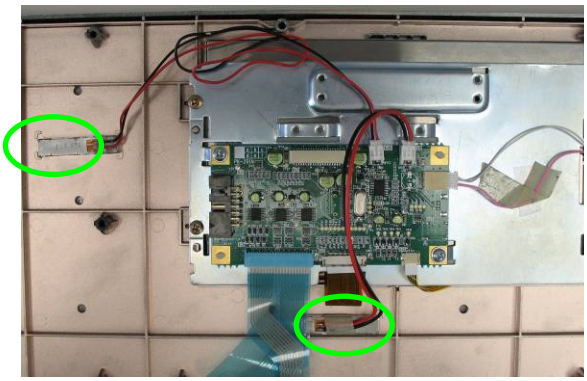
2. Remove the bottom case of the operation panel.

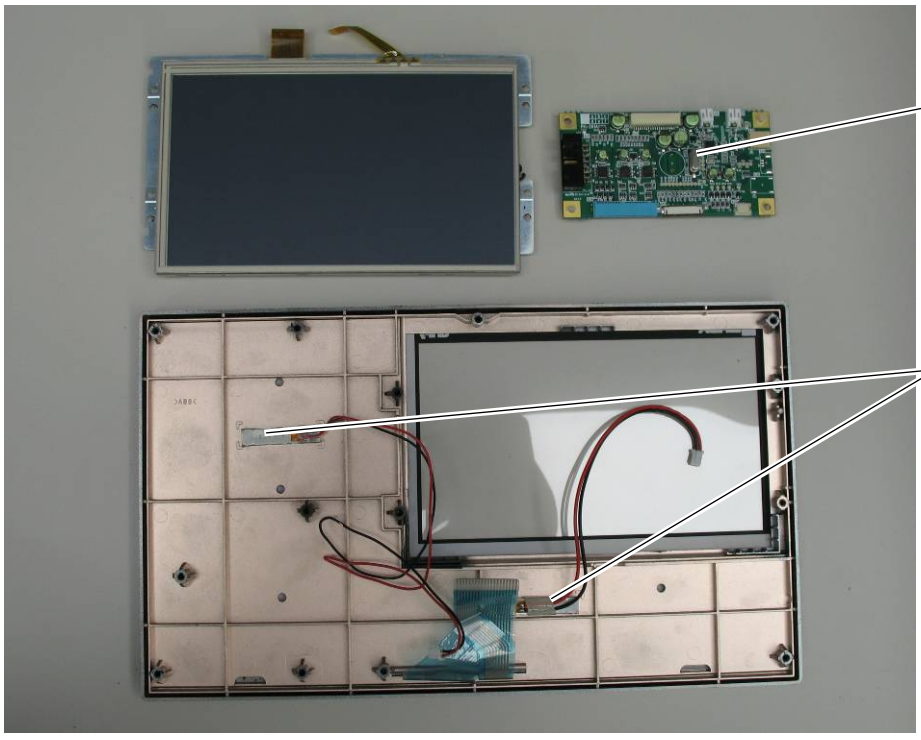


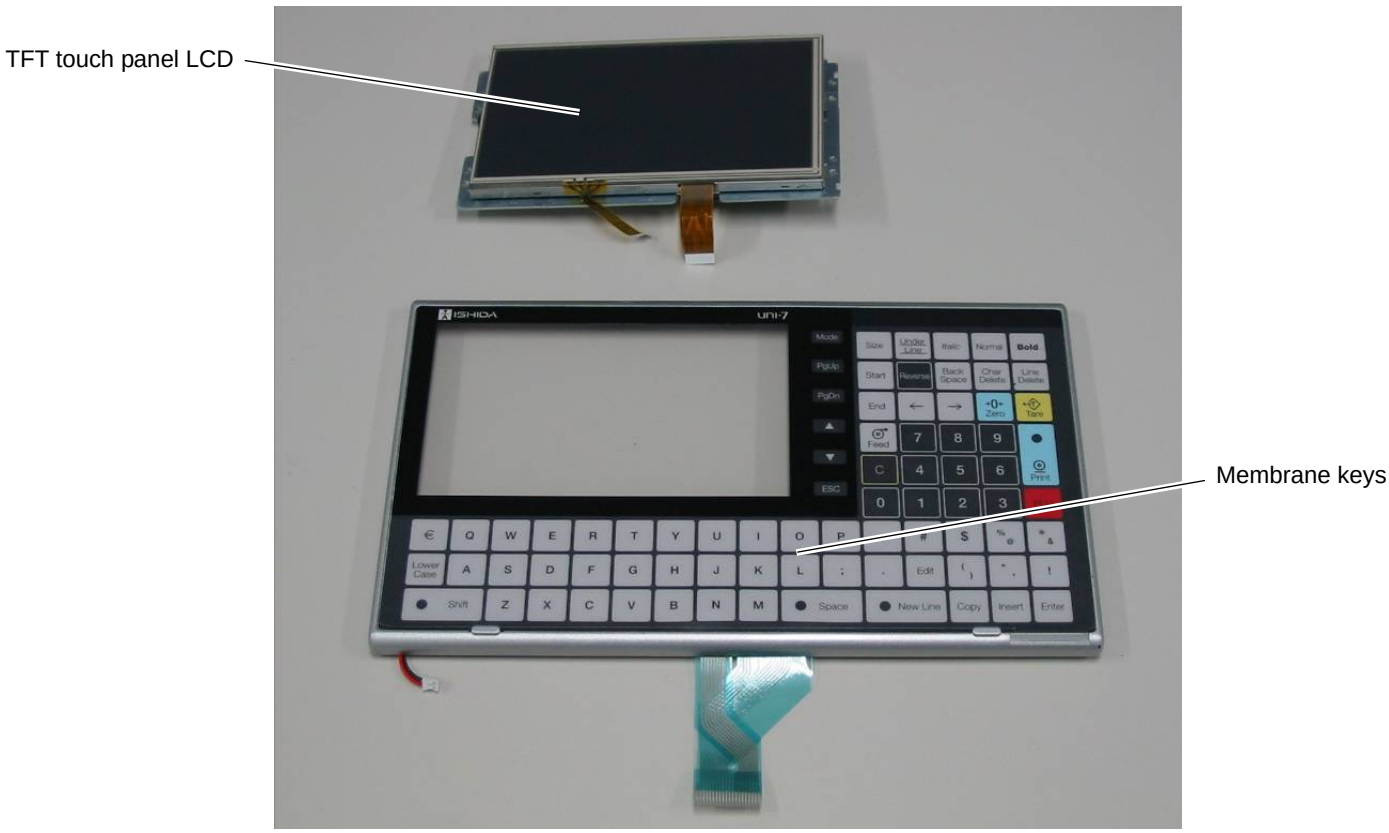
3. Unplug all harnesses and remove the fixing screws to detach the touch panel LCD with the bracket.



4. Unplug the harnesses and peel off the vibrator attached with the double-faced tape.



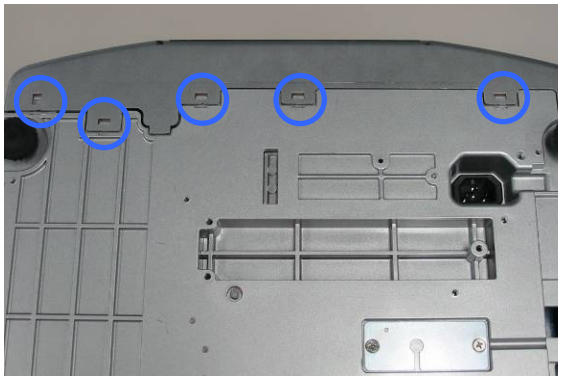




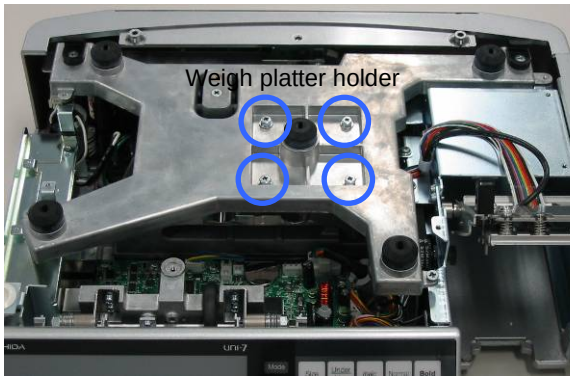
* Reverse this procedure for assembly.

5.1.5 CUSTOMER DISPLAY

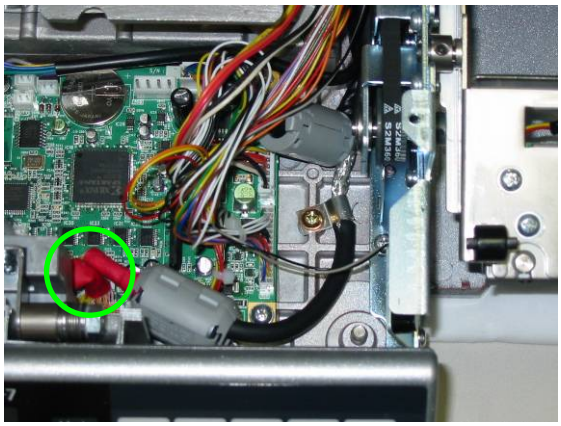
1. Disengage the five hooks located on the bottom of the machine using a slotted screwdriver.



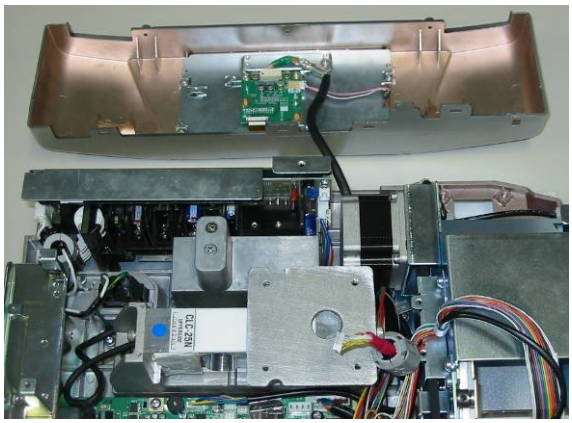
2. Remove the four screws fixing the weigh platter holder.



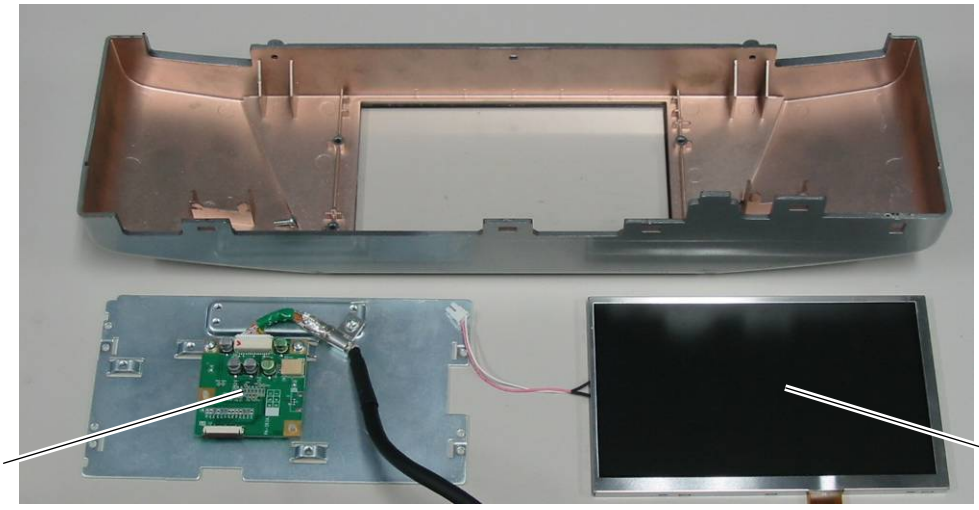
3. Remove the weigh platter holder and unplug the harness connected with the main board.



4. Detach the customer display unit.



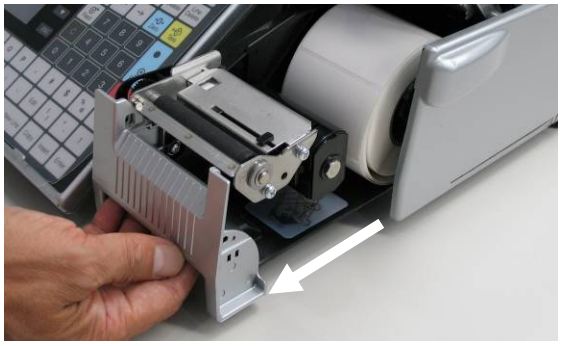
5. Detach the display control board and TFT LCD.



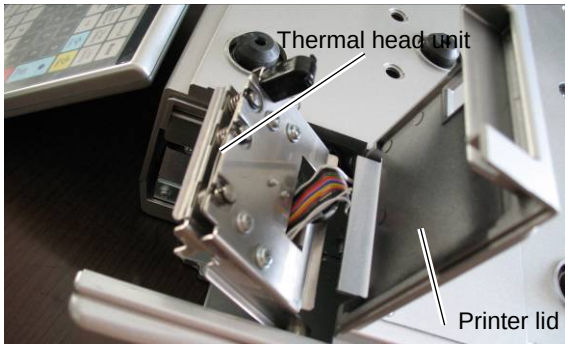
* Reverse this procedure for assembly.

5.1.6 LABEL SENSOR

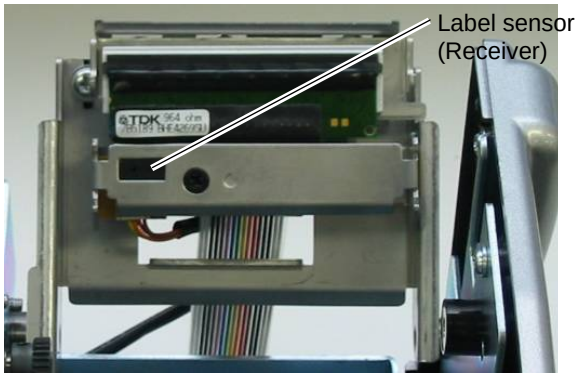
1. Pull out the cassette unit from the main unit.



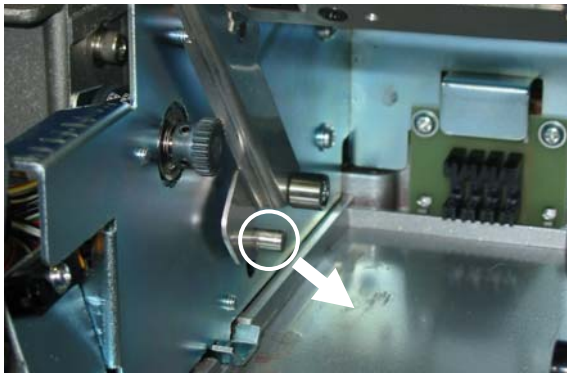
2. Open the printer lid.



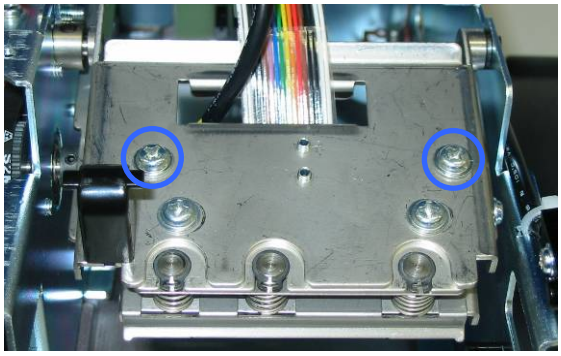
3. This photo shows the location of the label sensor receiver.



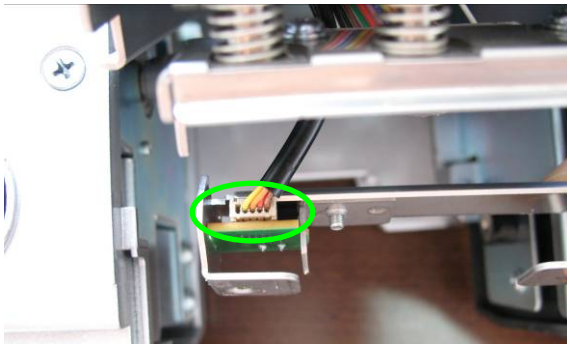
4. Lower the thermal head unit by pushing down the lever.



5. Carefully remove the two screws fixing the label sensor unit so as not to drop or lose the inserted collars.



6. Unplug the harness.



7. This photo shows the breakdown of the sensor unit.

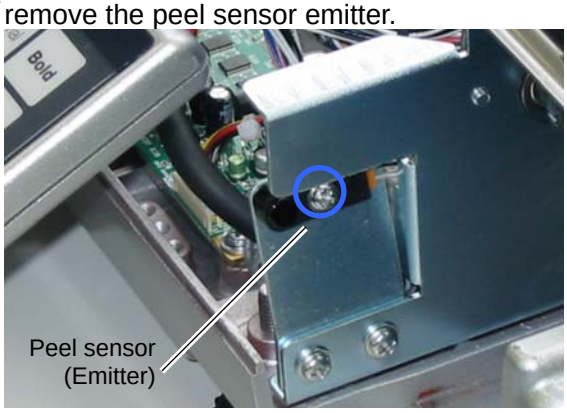
8. Remove the screw fixing the bracket.

* Reverse this procedure for assembly.

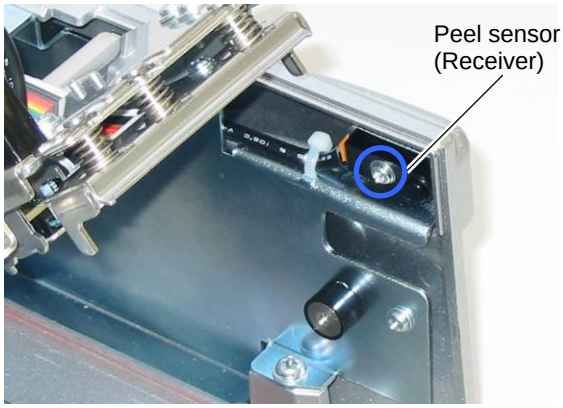
5.1.7 PEEL SENSOR

1. Pull out the cassette unit from the main unit.

2. Remove the screw and unplug the harness to remove the peel sensor emitter.



3. Remove the screw and unplug the harness to remove the peel sensor receiver.

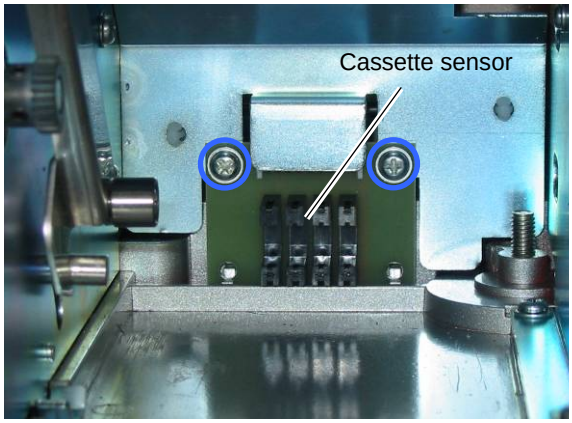


* Reverse this procedure for assembly.

5.1.8 CASSETTE SENSOR

1. Pull out the cassette unit from the main unit.

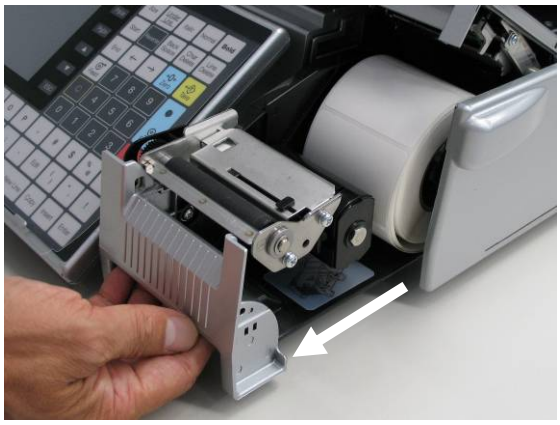
2. Remove the two screws and unplug the harness to remove the cassette sensor.



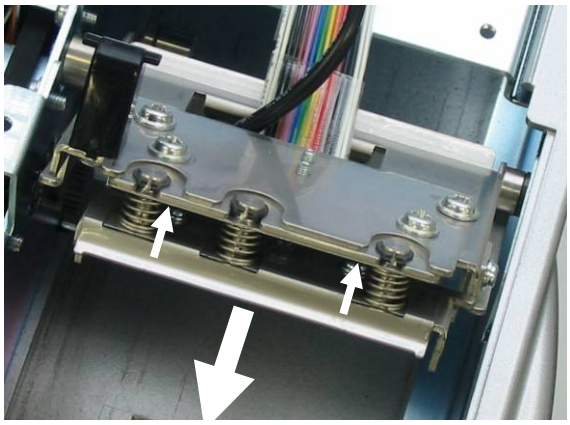
* Reverse this procedure for assembly.

5.1.9 THERMAL HEAD UNIT

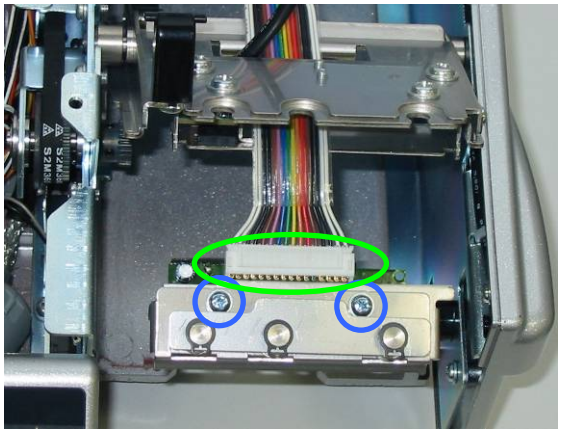
1. Pull out the cassette unit from the main unit.



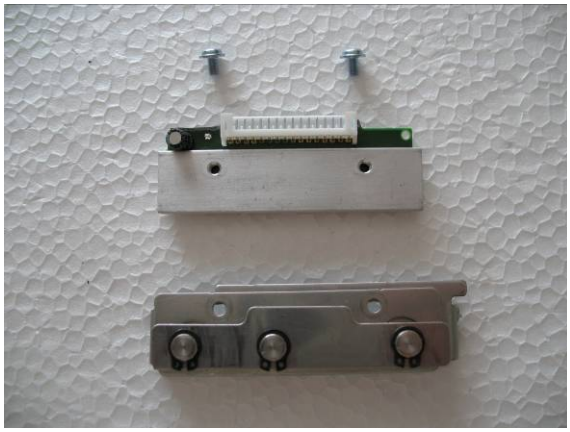
2. Squeeze the springs by holding up the head unit and pull out the thermal head unit.



3. Unplug the connector and remove the two screws.



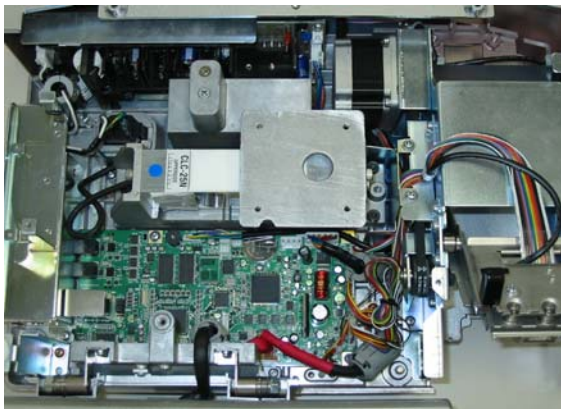
4. This photo shows the breakdown of the thermal head unit.



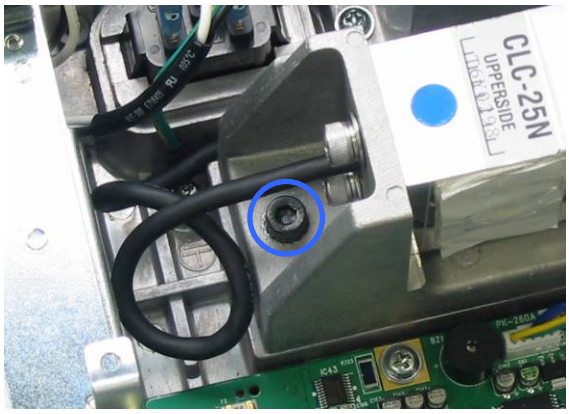
* Reverse this procedure for assembly.

5.1.10 LOAD CELL & A/D BOARD

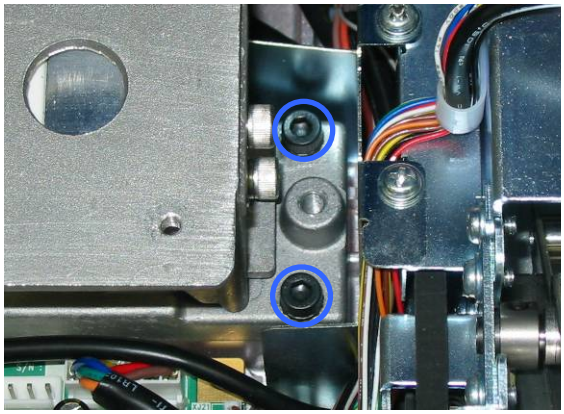
1. This photo shows the inside of the machine.



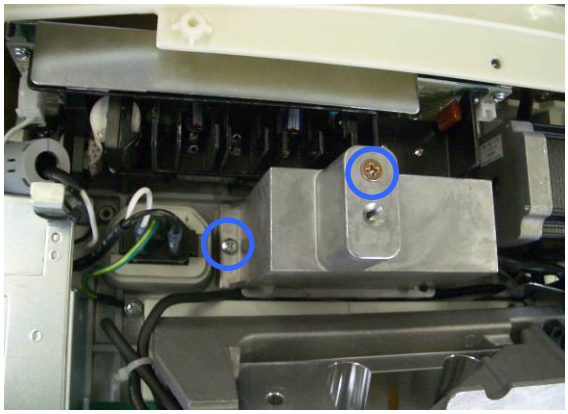
2. Remove the hexagon socket head bolt fixing the load cell unit.



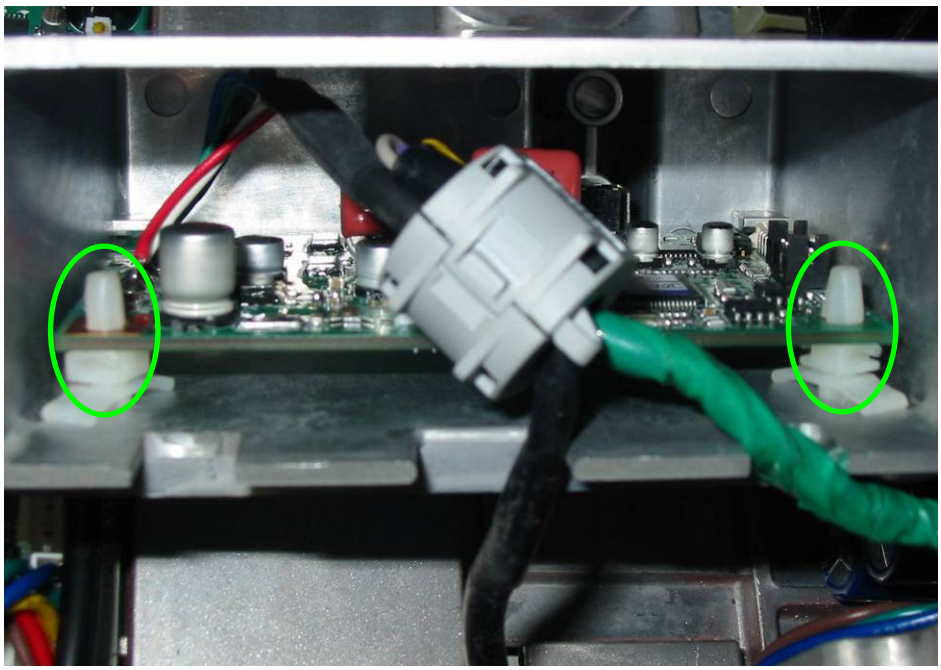
3. Remove the two hexagon socket head bolts at the other end and detach the load cell unit.



4. Remove the two screws to remove the die-cast bracket.

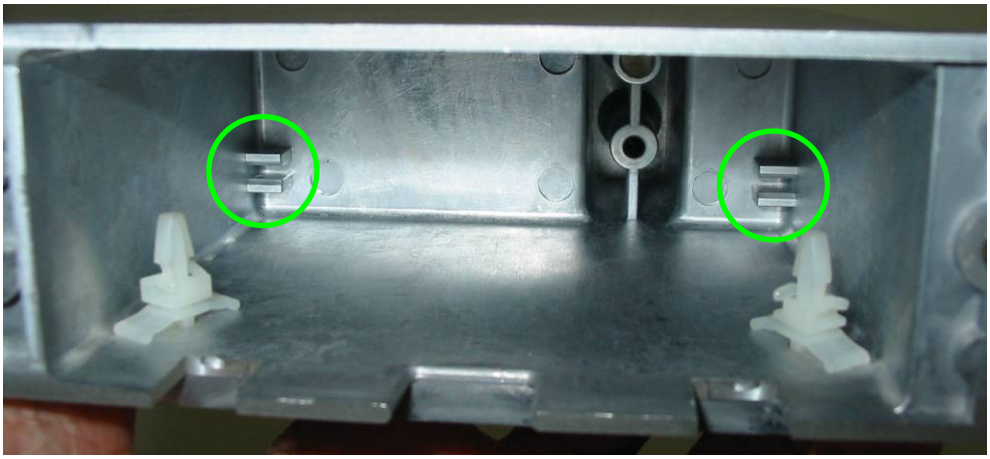


5. Unplug the harnesses and squeeze the two spacers (green) to detach the AD board.



Note:

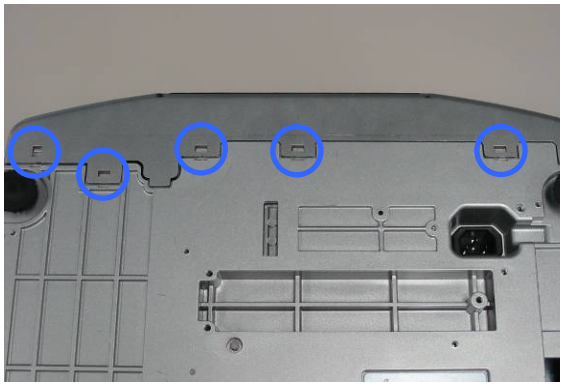
When inserting the A/D board, be sure to hold it with two hooks inside.



* Reverse this procedure for assembly.

5.1.11 POWER SUPPLY UNIT

1. Disengage the five hooks at the bottom of the machine using a slotted screwdriver.



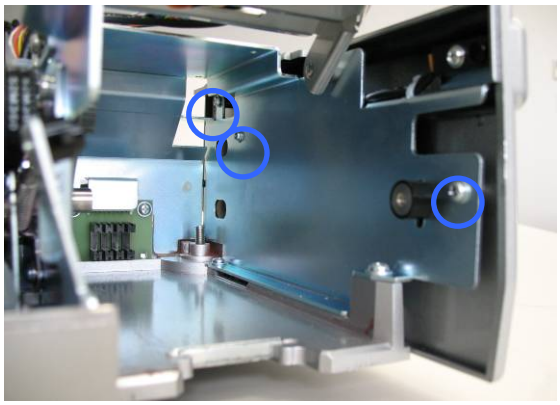
2. Detach the customer display unit and remove the two screws fixing the power supply unit.

3. Remove the power supply unit.

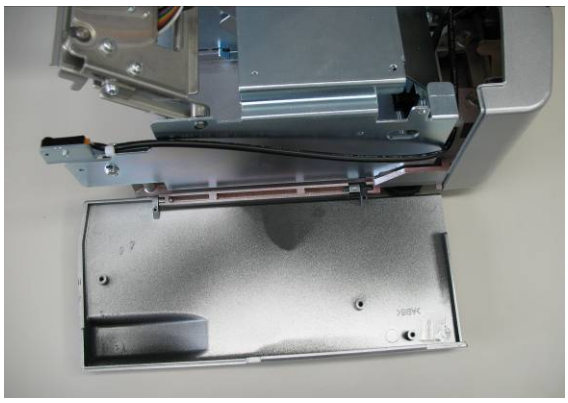
* Reverse this procedure for assembly.

5.1.12 MOTOR UNIT

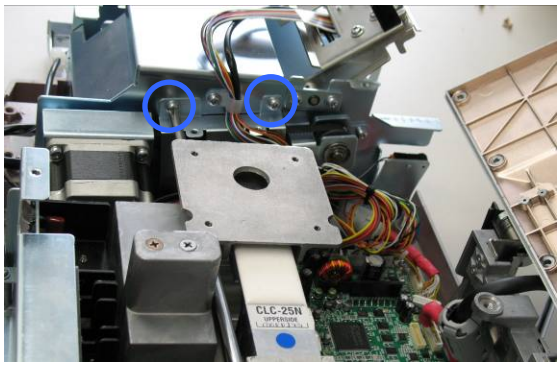
1. Remove the three screws fixing the side cover.



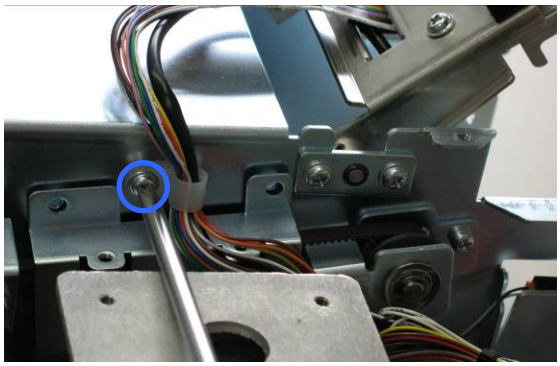
2. Detach the side cover.



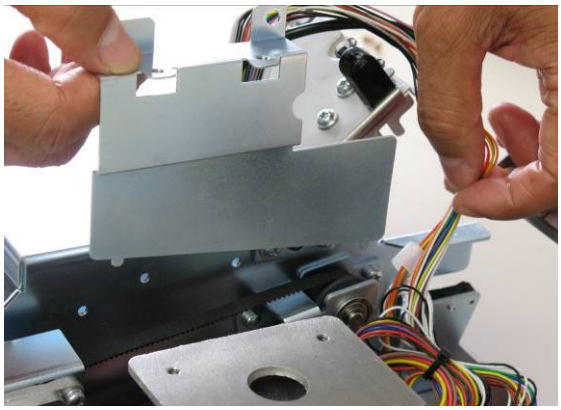
3. Remove the two screws fixing the plate.



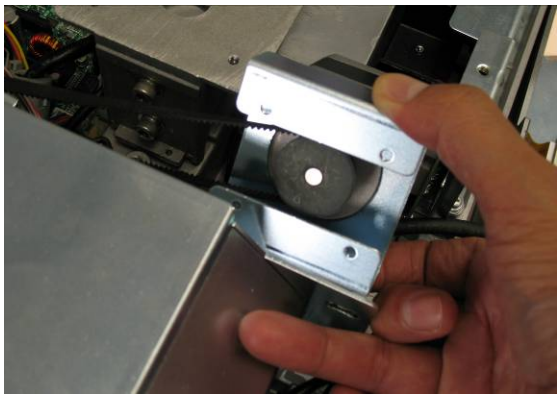
4. Remove the screw fixing the cable fastener.



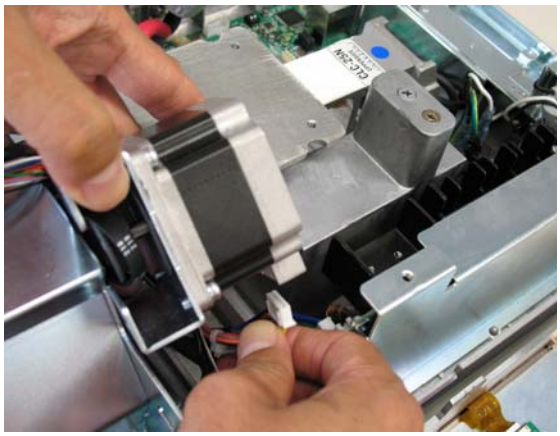
5. Remove the plate.



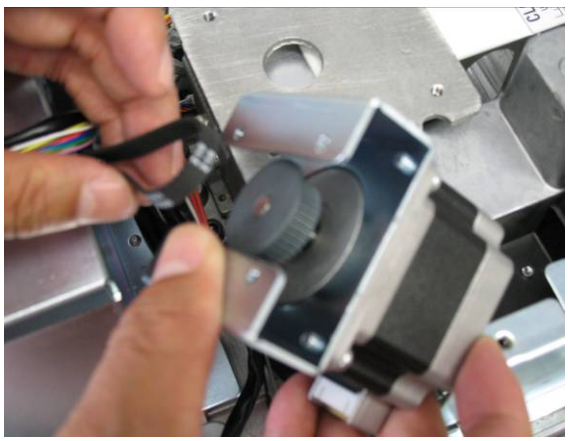
6. Remove the motor.



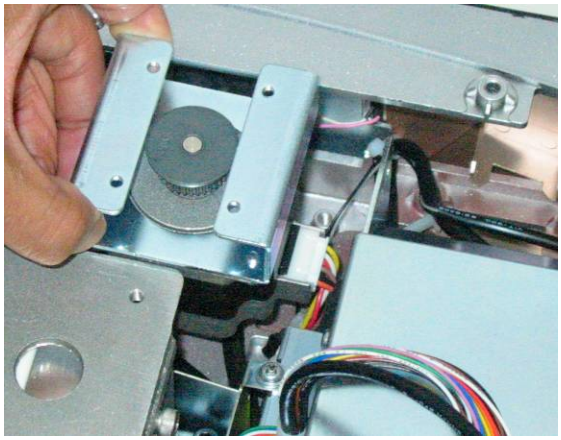
7. Unplug the connector.



8. Remove the timing belt from the pulley.



9. Remove the motor unit.



Reverse this procedure for assembly.

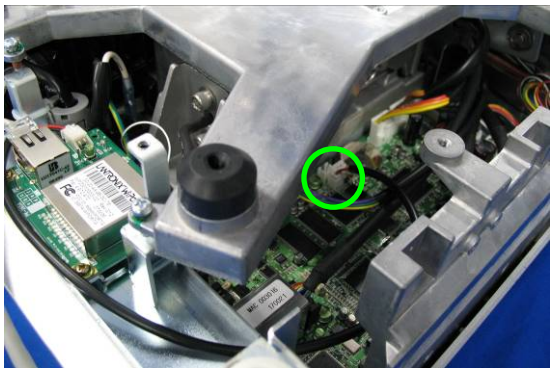
5.1.13 WIRELESS LAN UNIT

1. Make sure that the upper case of the main unit is removed.

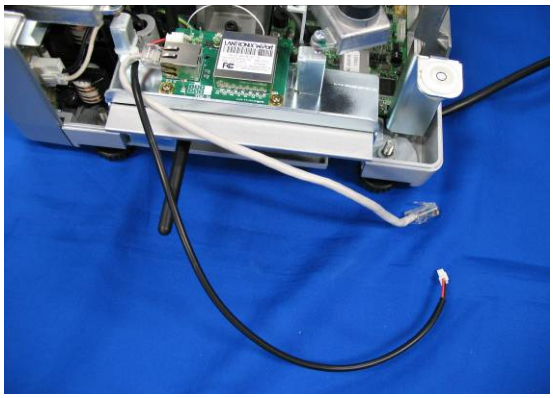
2. This photo shows the wireless LAN unit installed in the main unit.

3. Unplug the LAN connector..

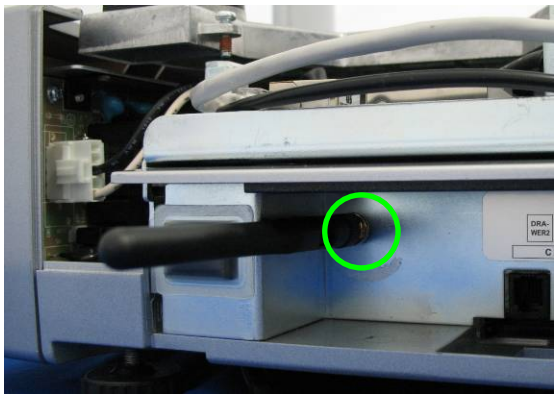
4. Unplug the connector from the main board.



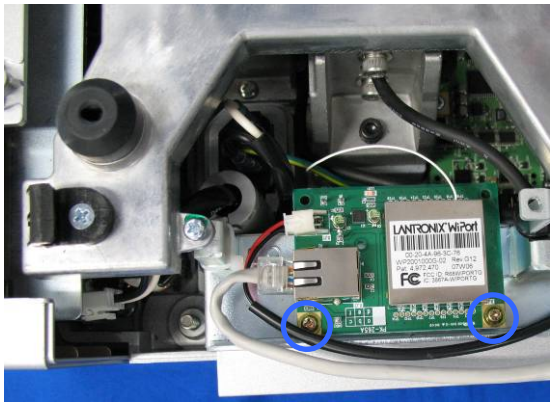
5. The cable connected with the main board and the LAN cable are unplugged.



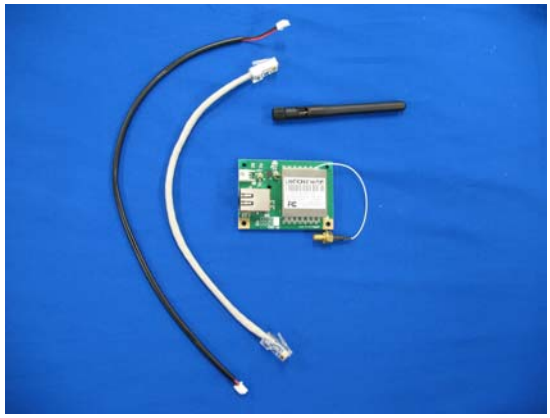
6. Turn to remove the antenna.



7. When removing the LAN board, remove the two screws.

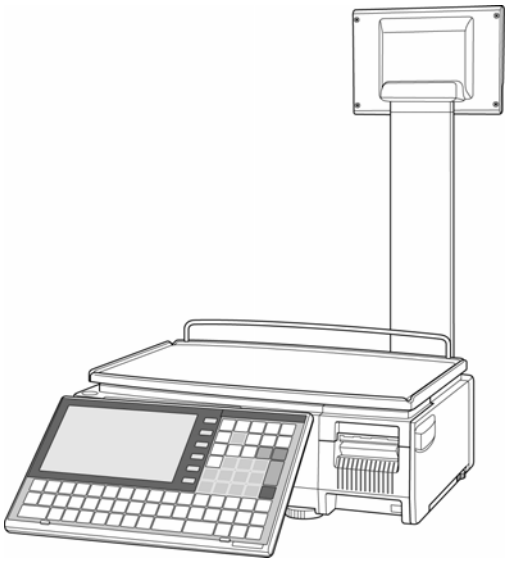


8. This photo shows the constituent parts for the wireless LAN unit.



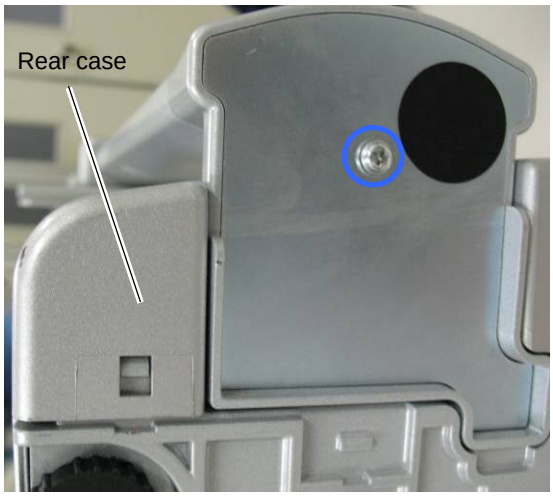
* Reverse this procedure for assembly.

5.2 POLE TYPE

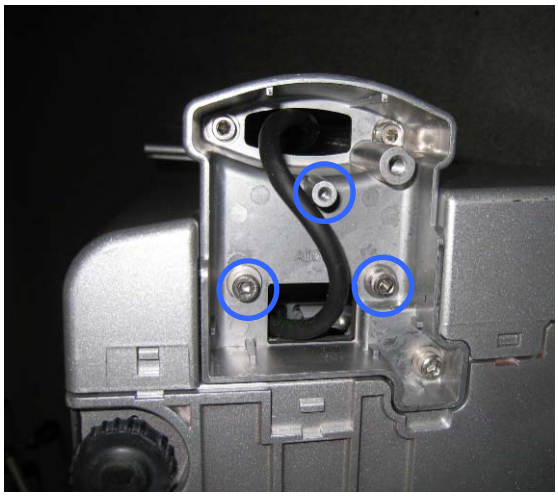


5.2.1 POLE UNIT

1. Remove the screw fixing the blind plate located on the bottom of the pole unit.



2. Remove the three hexagon socket head bolts and separate the pole unit from the machine.

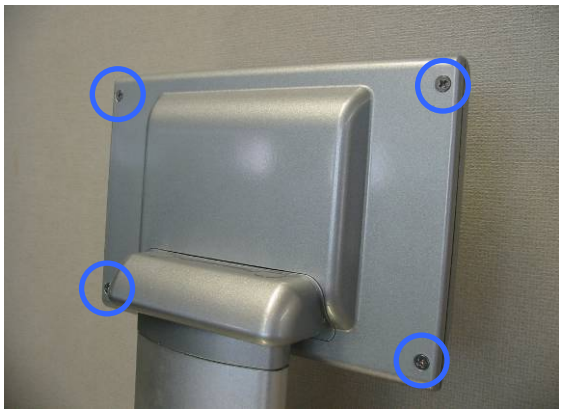


3. Unplug the display harness connector on the main board to remove the pole unit.

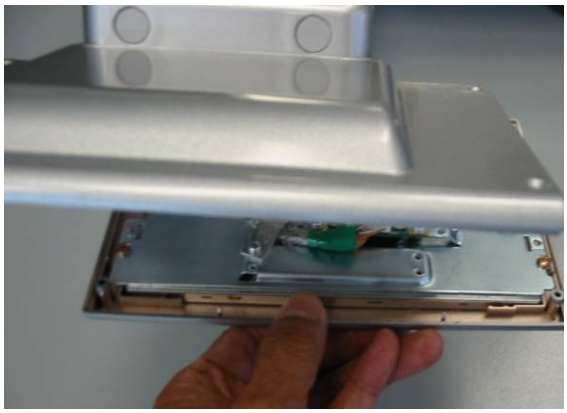
* Reverse this procedure for assembly.

5.2.2 CUSTOMER DISPLAY UNIT

1. Remove the four screws fixing the rear case of the customer display unit.

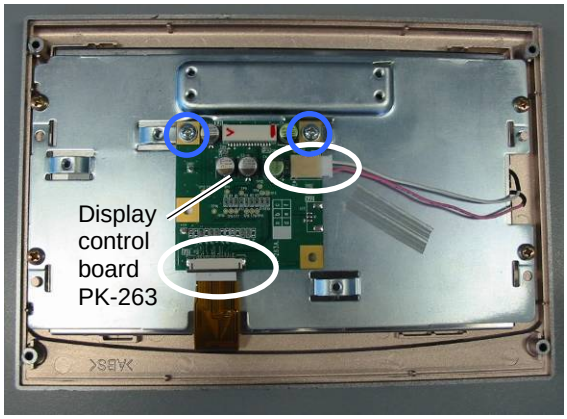


2. Detach the front panel of the customer display unit.

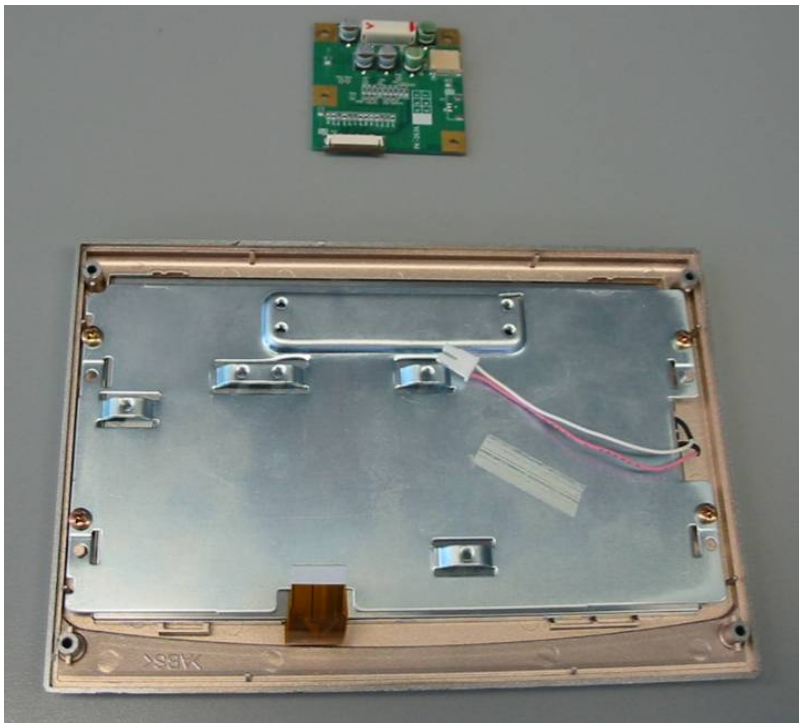


3. Unplug the connector.

4. Remove the two screws and unplug the two harnesses.

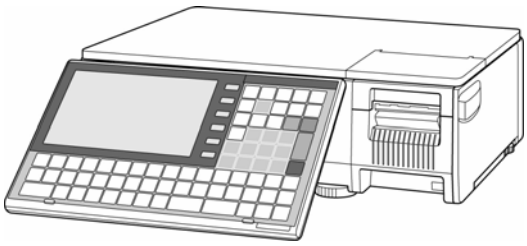


5. Remove the display control board.



* Reverse this procedure for assembly.

5.3 BAKERY TYPE

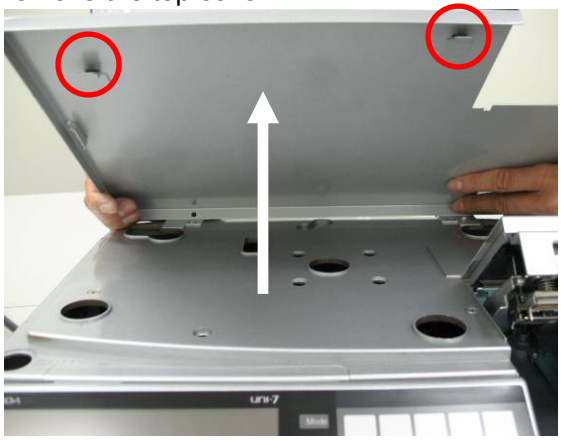


5.3.1 UPPER CASE

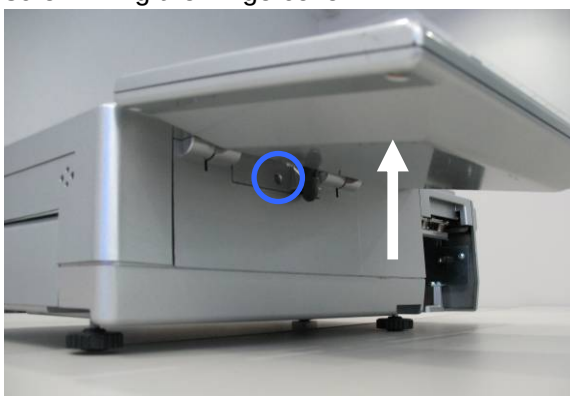
1. Pull out the cassette unit from the main unit.

2. Remove the two screws located at the rear side of the top cover.

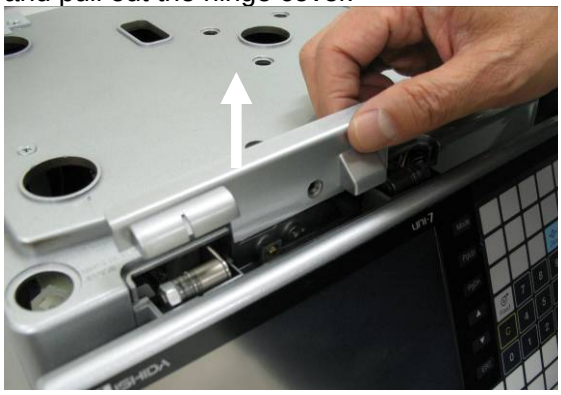
3. Disengage the two hooks (red) and lift to remove the top cover.



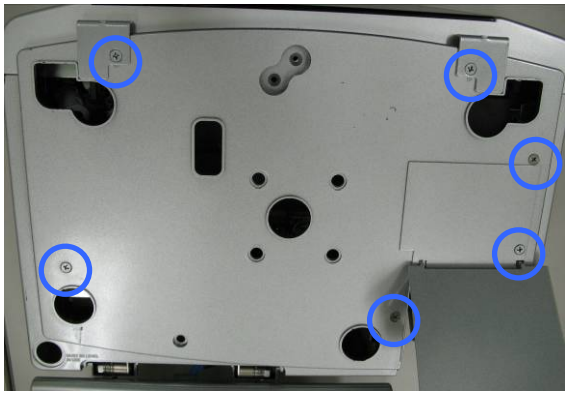
4. Raise the operation panel and remove the screw fixing the hinge cover.



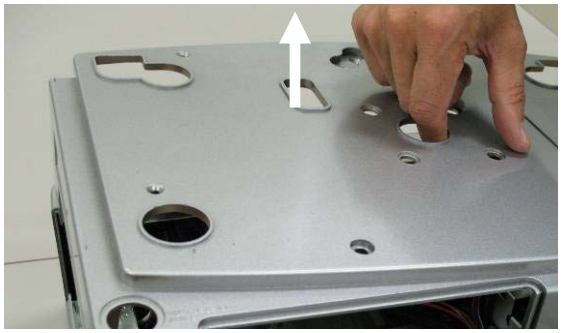
5. Make the operation panel angle about 45° and pull out the hinge cover.

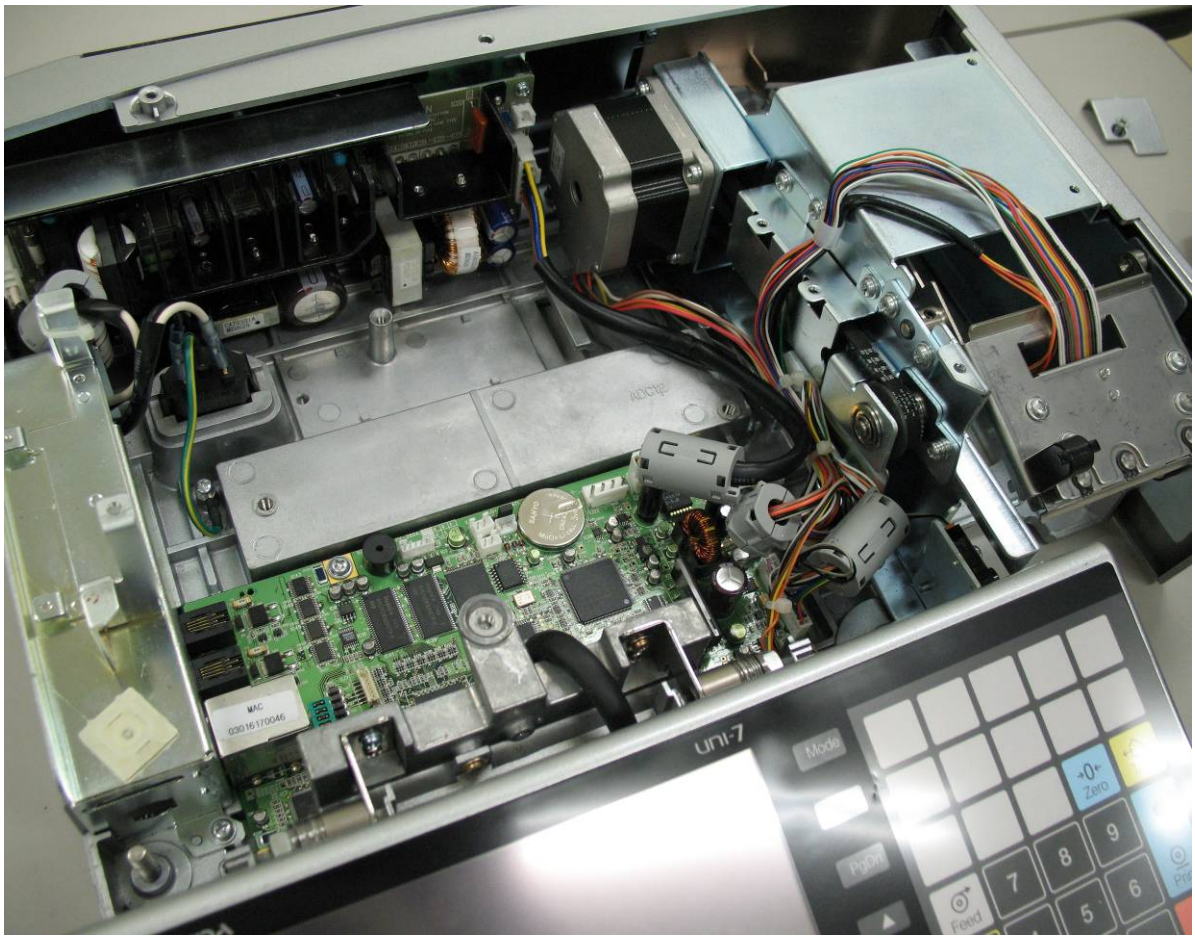


6. Remove the six screws fixing the upper case.



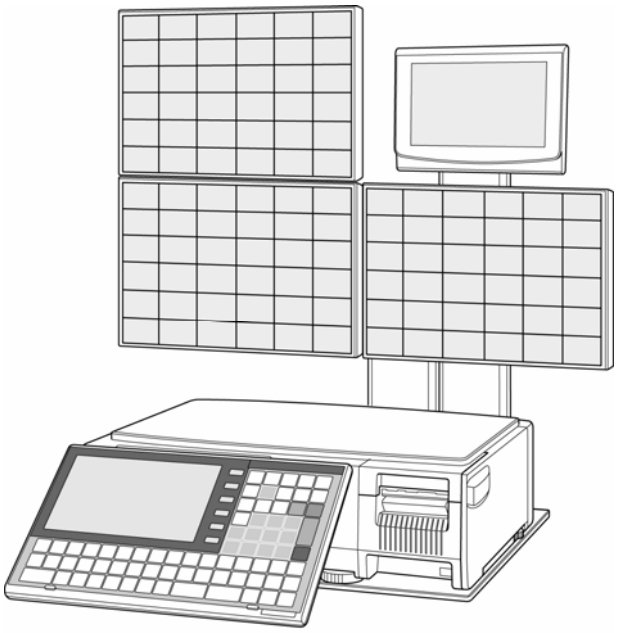
7. Lift to remove the upper case.





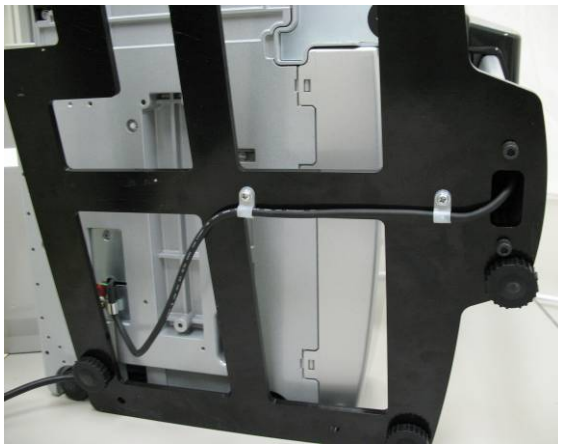
* Reverse this procedure for assembly.

5.4 SELF-SERVICE TYPE

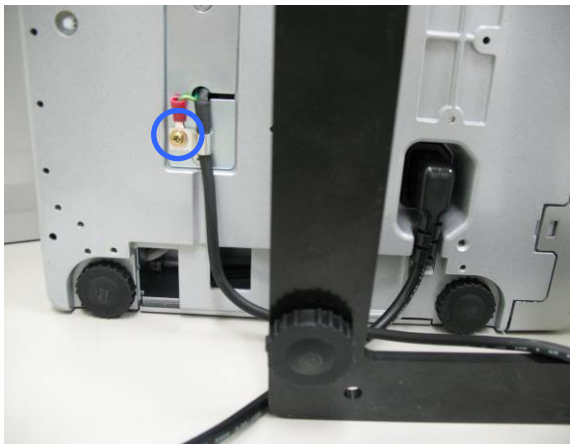


5.4.1 SELF-SERVICE PANEL UNIT

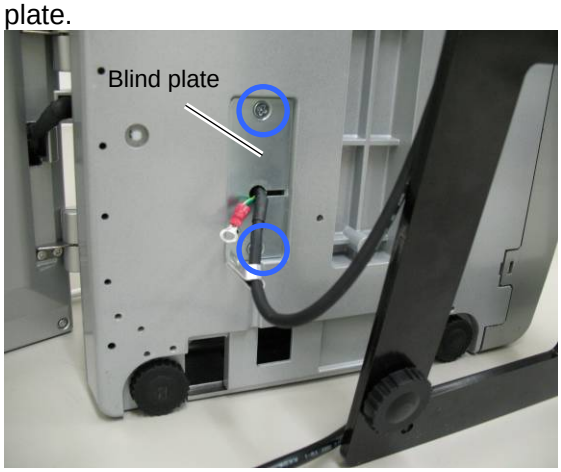
1. Gently lay down the machine and self-service panel unit so that you can work from the bottom.



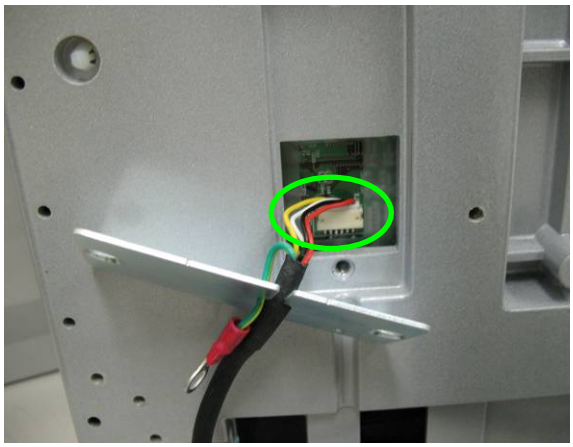
2. Remove the screw fixing the cable clamp and the grounding terminal.



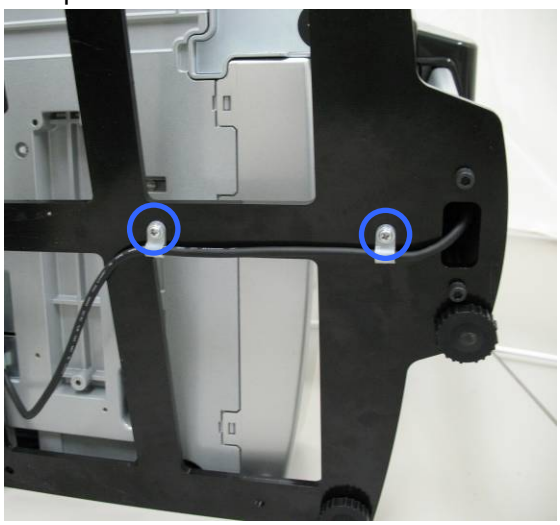
3. Remove the two screws fixing the blind plate.



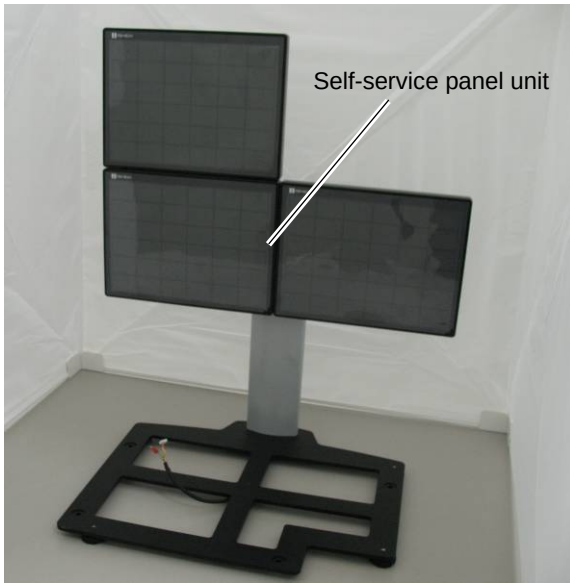
4. Detach the blind plate and unplug the connector.



5. Remove the two screws fixing the cable clamps.

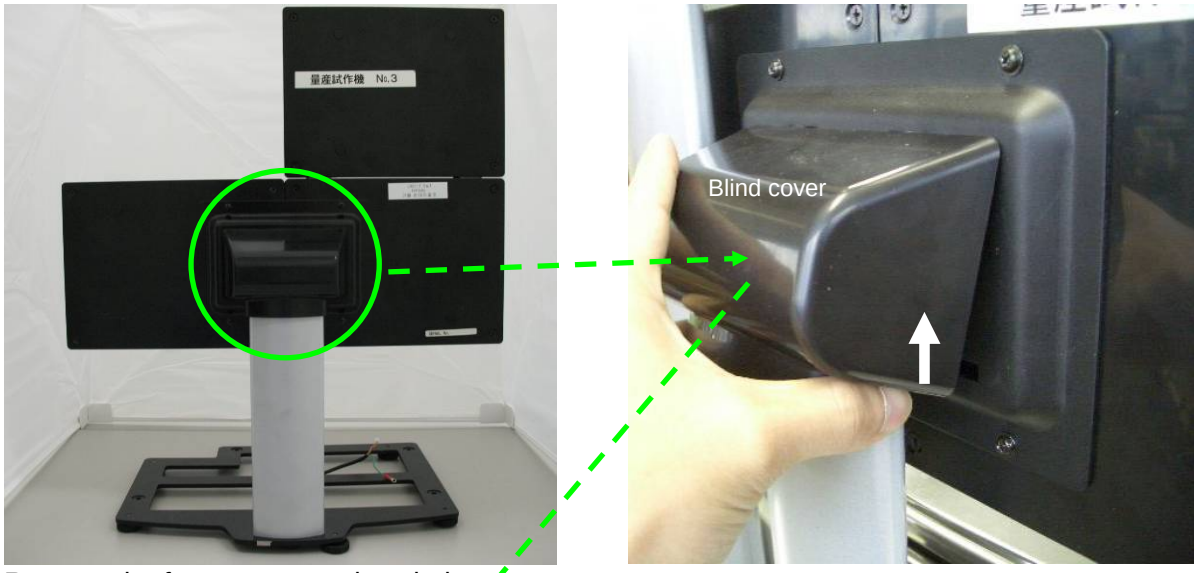


6. Separate the self-service panel unit from the machine.

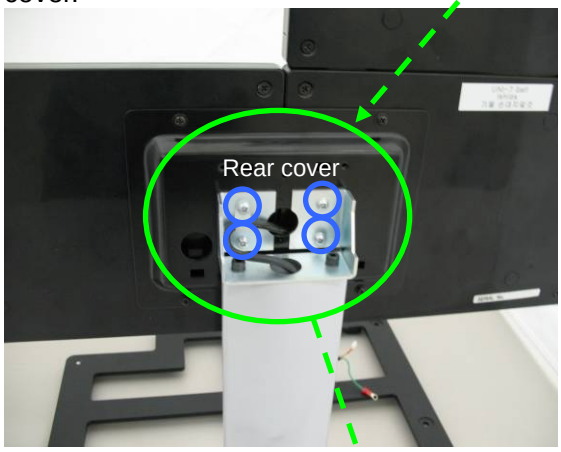


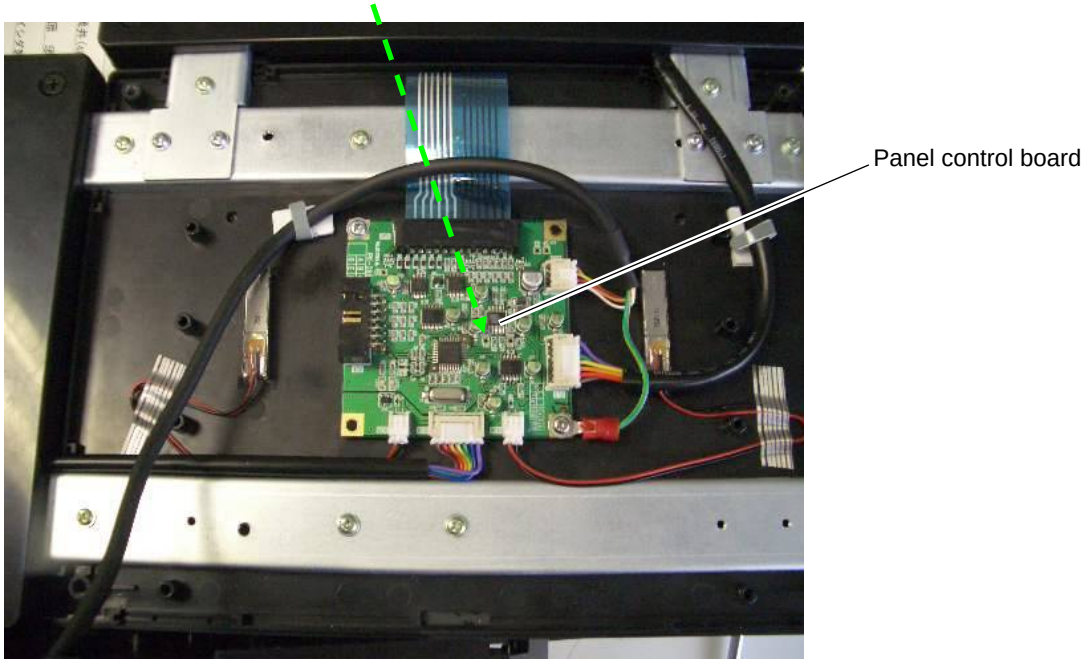
5.4.2 PANEL CONTROL BOARD

1. Lift to disengage the two hooked places and detach the blind cover of the self-service panel unit..

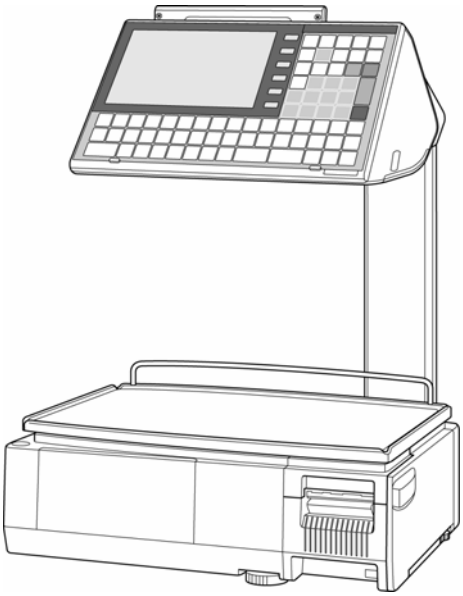


2. Remove the four screws to detach the rear cover.





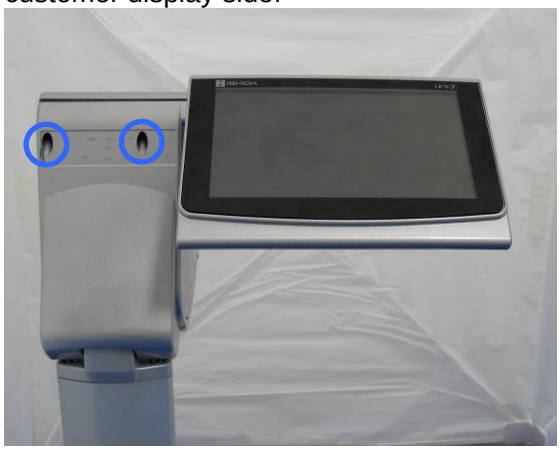
5.5 ELEVATED TYPE



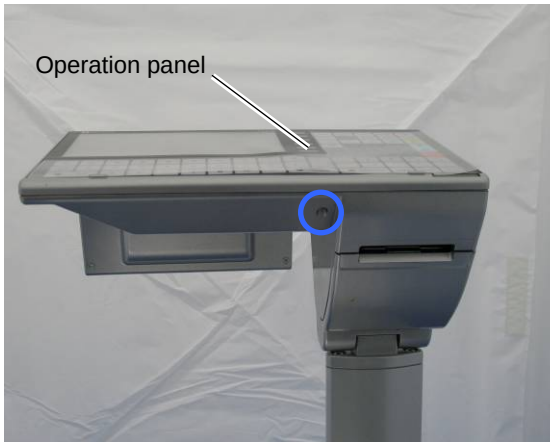
5.5.1 OPERATION PANEL UNIT (FOR DUAL PRINTER)

1. Remove the two screws located on the bottom of the operation panel unit.

2. Remove the two screws located at the customer display side.



3. Remove the screw located on the bottom of the operation panel unit.

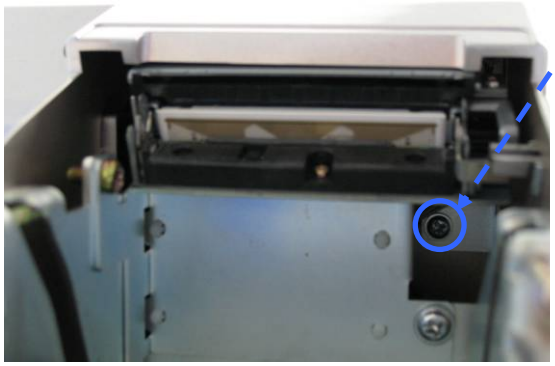


4. Slide the roll holder release lever in the arrow direction.

5. The roll holder comes down.

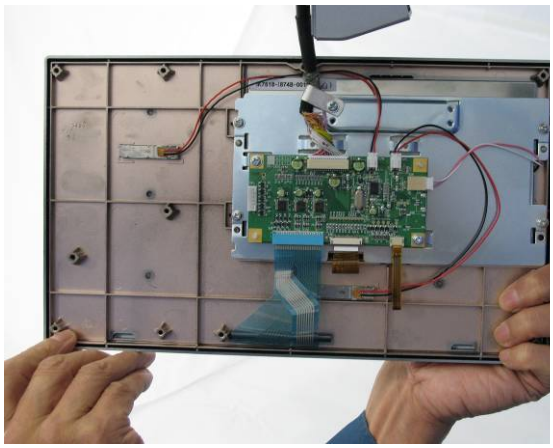
6. Fully loosen the screw and pull to remove the roll holder.

7. Remove the screw located inside of the operation panel unit.

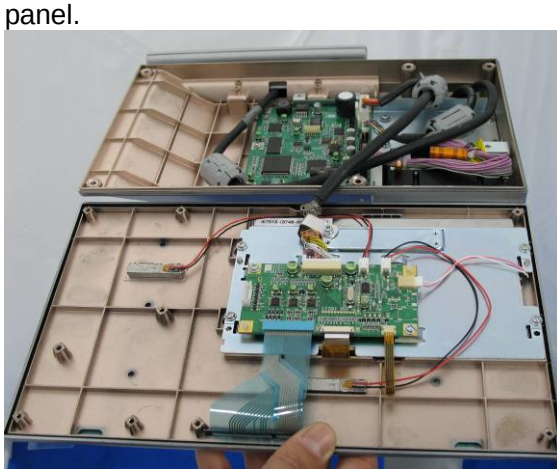


8. Detach the operation panel.

9. This photo shows the rear side of the operation panel.



10. This photo shows the inside of the operation panel unit and the rear side of the operation panel.



5.5.2 OPERATION PANEL UNIT (FOR SINGLE PRINTER)

1. Remove the two screws located on the bottom of the operation panel unit.

2. Remove the two screws located at the customer display side.

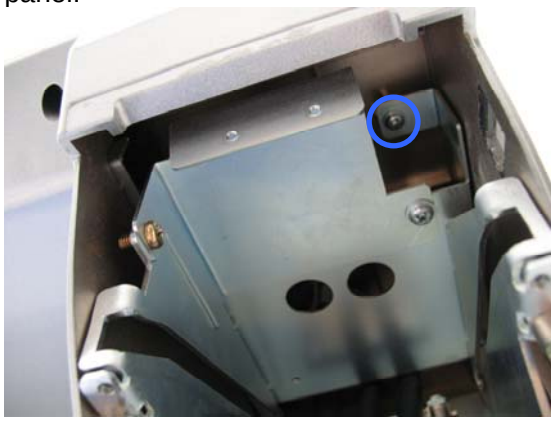
3. Remove the screw located on the bottom of the operation panel unit.

4., peel off the blind plate.

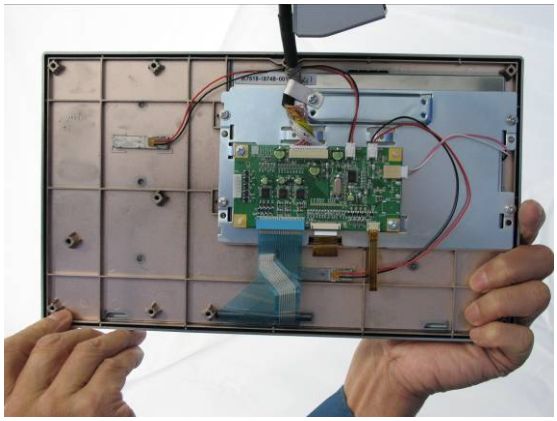
5. Remove the two screws fixing the roll holder.

6. Pull out the holder.

7. Remove the screw fixing the operation panel.



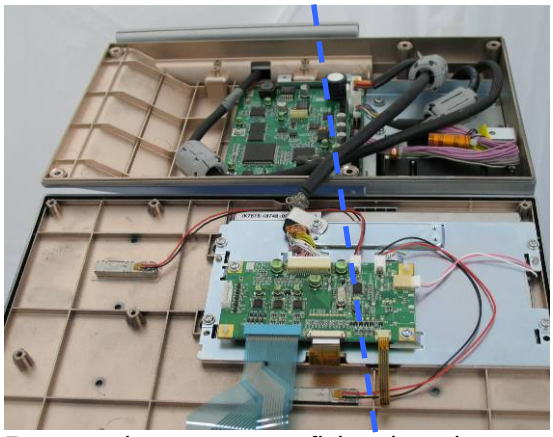
8. Detach the operation panel.



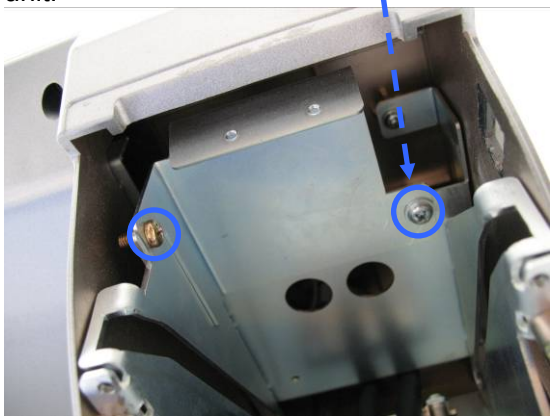
5.5.3 PRINTER UNIT (FOR DUAL PRINTER)

1. Make sure that the roll holder is removed from the operation panel unit. (Refer to section 5.5.1)

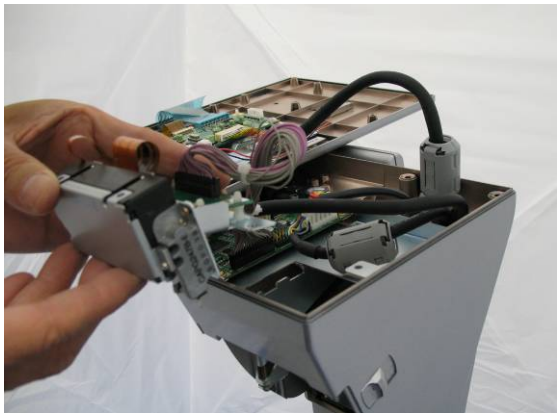
2. Also make sure that the operation panel unit is disassembled. (Refer to section 5.5.1)



3. Remove the two screws fixing the printer unit.

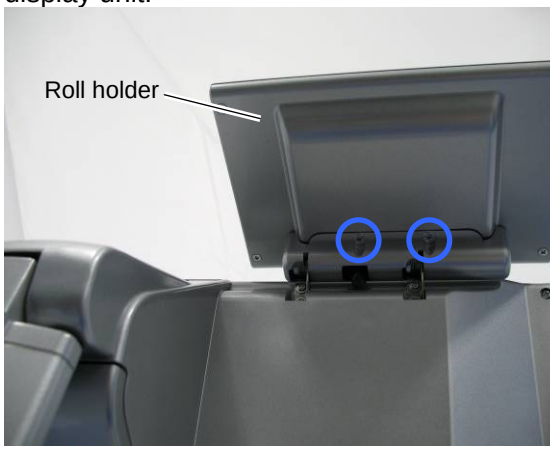


4. Detach the printer unit.

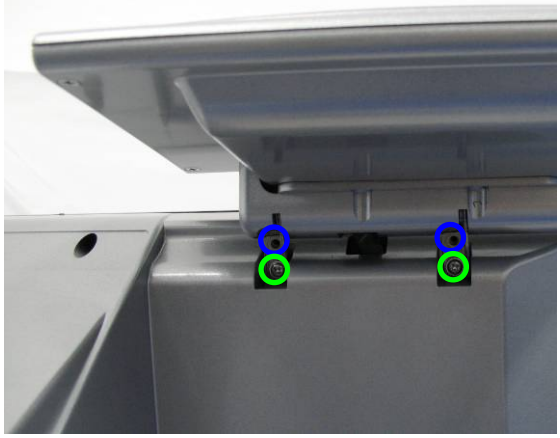


5.5.4 CUSTOMER DISPLAY UNIT

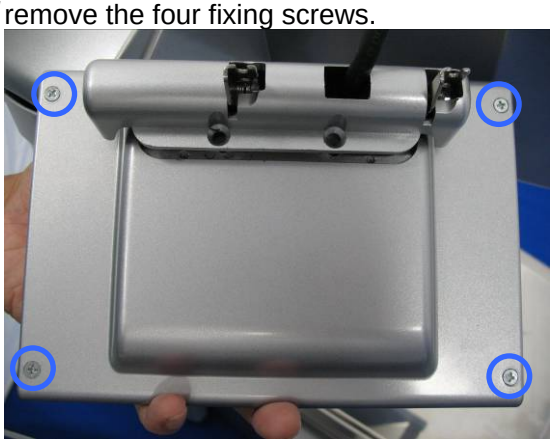
1. Remove the two screws fixing the customer display unit.



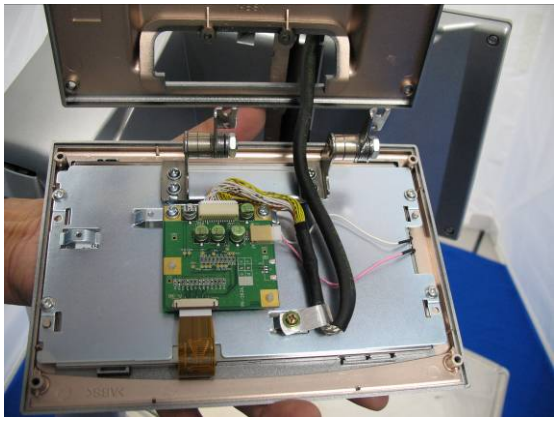
2. Remove the two screws (blue) and loosen the other two screws (green).



3. Detach the customer display unit and remove the four fixing screws.

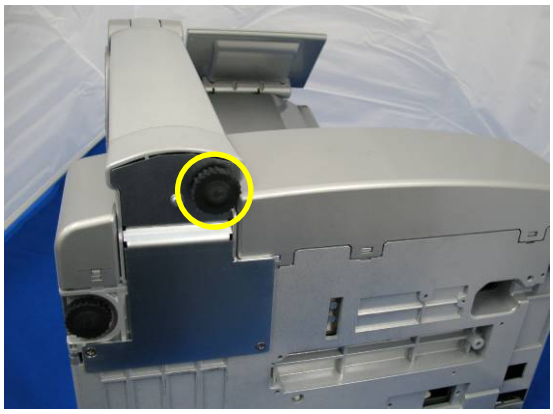


4. Open the customer display unit.

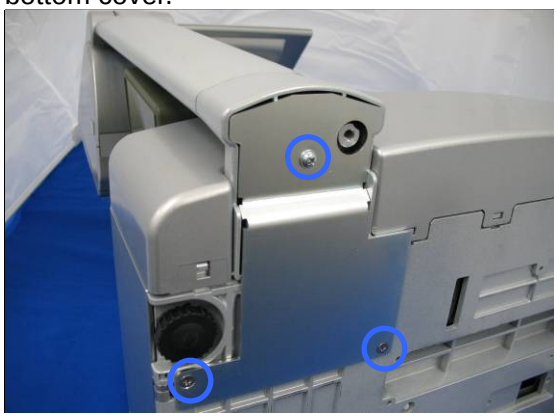


5.5.5 ELEVATED UNIT

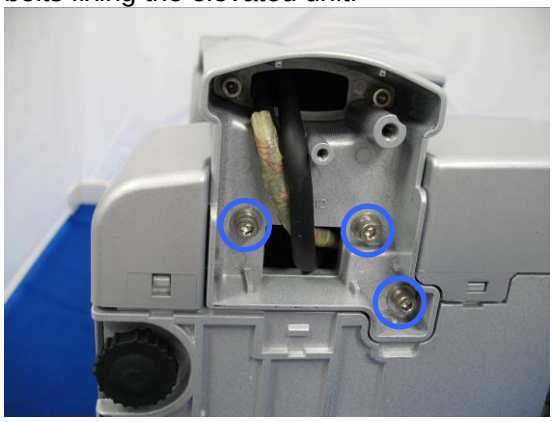
1. Turn to remove the level adjusting foot.



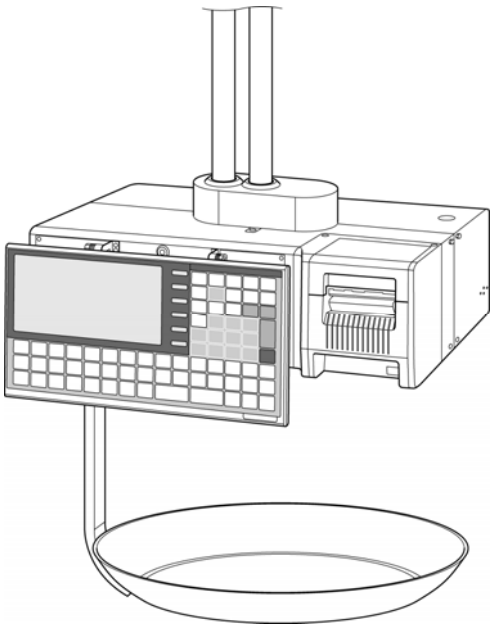
2. Remove the three screws fixing the pole bottom cover.



3. Remove the three hexagon socket head bolts fixing the elevated unit.

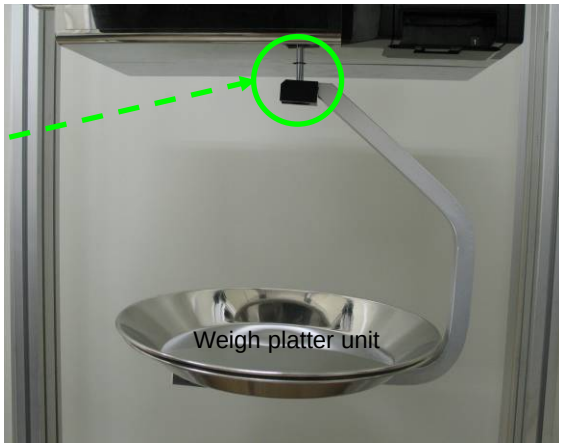


5.6 HANGING TYPE



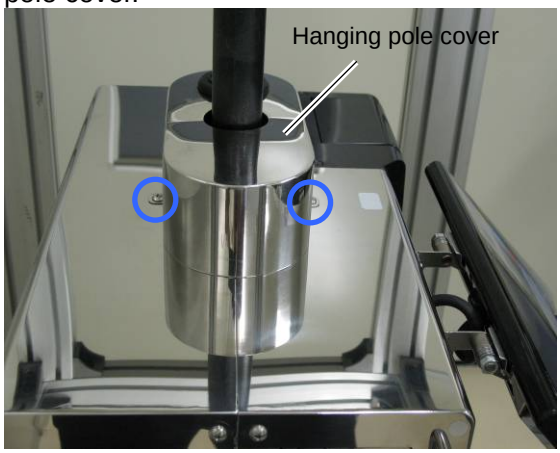
5.6.1 HANGING POLE

1. Disengage the joint section to remove the weigh platter unit.

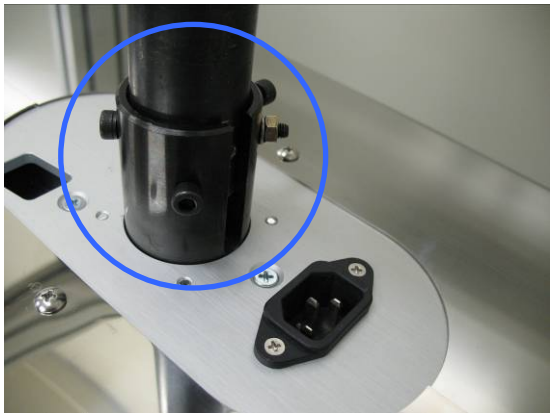


2. Remove the weigh platter unit.
.

3. Remove the two screws fixing the hanging pole cover.



4. Remove the bolts fixing the pole from the ceiling and the pole from the main unit.



5. These photos show the front-side and rear-side views of the main unit.

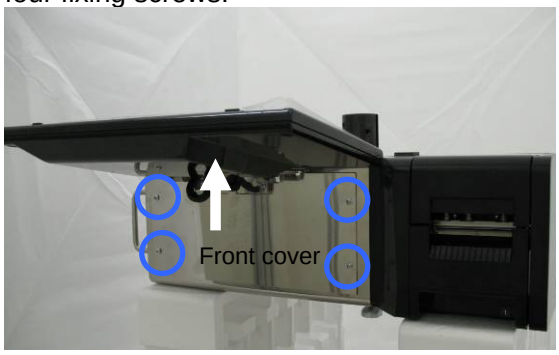
Front-Side View

Rear-Side View

* Reverse this procedure for assembly.

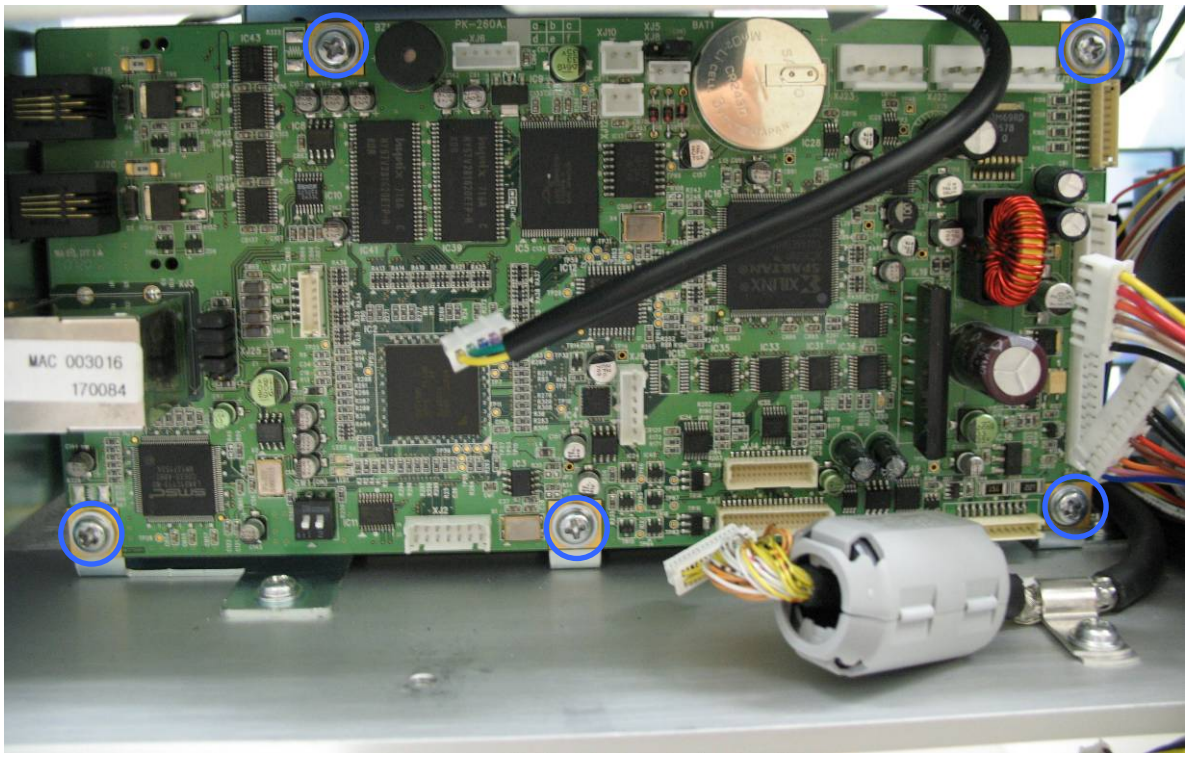
5.6.2 MAIN BOARD

1. Raise the operation panel and remove the four fixing screws.



2. Remove the front cover of the main unit.

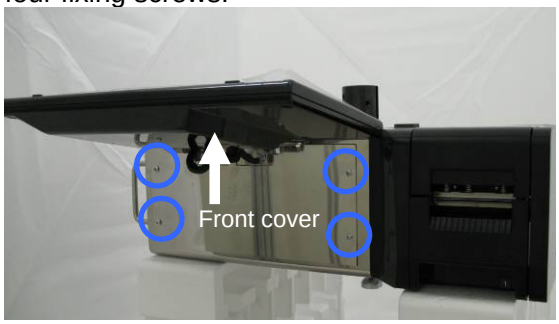
3. Unplug all harnesses connected with the main board and remove the five fixing screws.



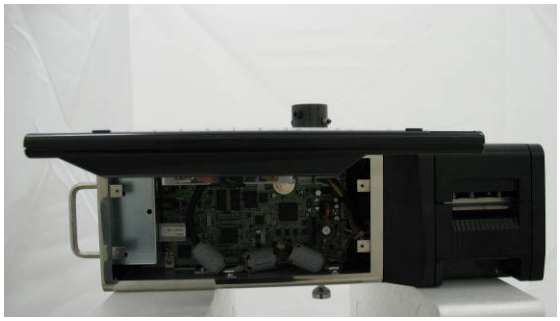
* Reverse this procedure for assembly.

5.6.3 OPERATION PANEL

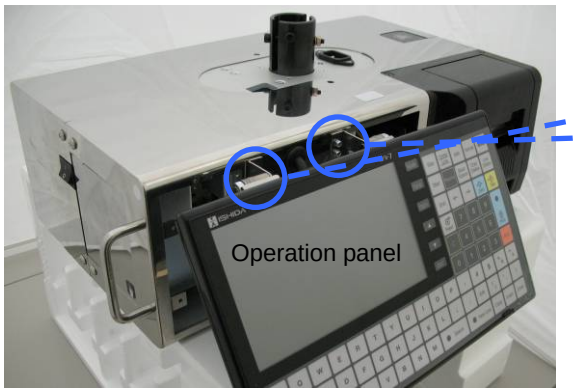
1. Raise the operation panel and remove the four fixing screws.

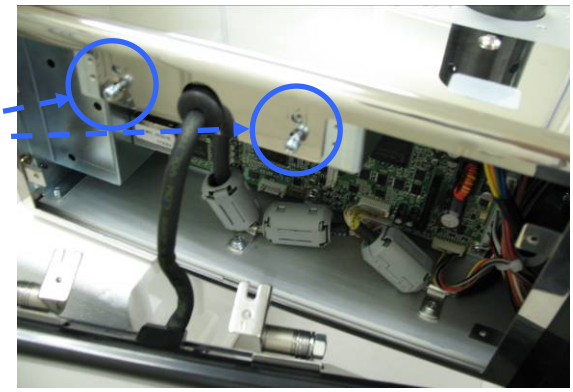


2. Remove the front cover of the main unit.

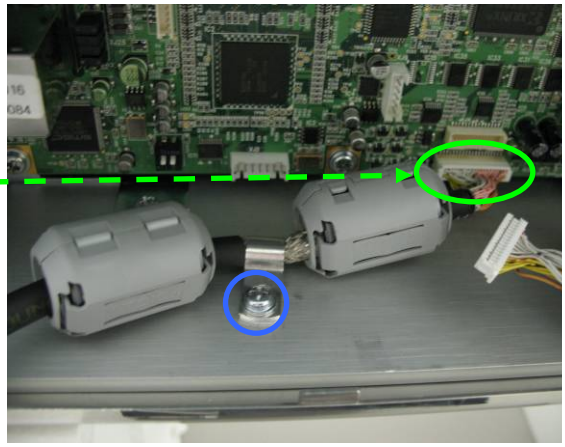


3. Raise the operation panel and remove the two upper screws and loosen the two lower screws.





4. Unplug the keyboard harness from the main board and remove the screw for the cable clamp.



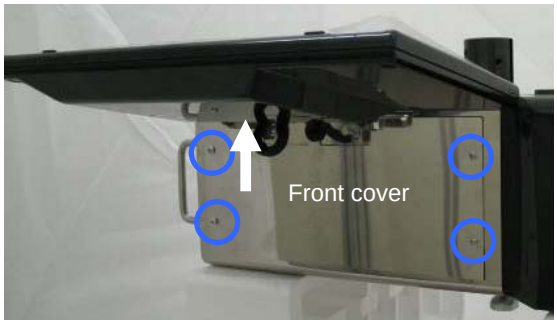
5. Remove the operation panel from the main unit.

* Reverse this procedure for assembly.

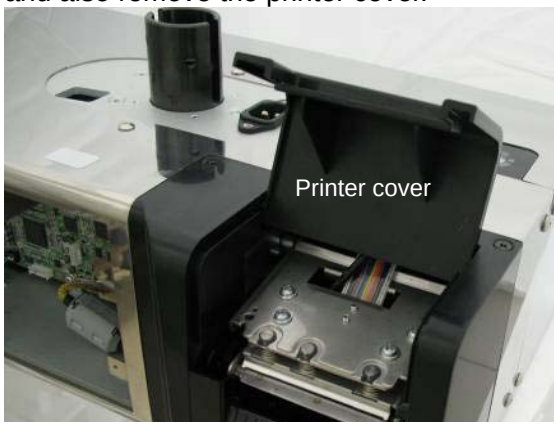
5.6.4 FRONT & REAR STAINLESS-STEEL HOUSINGS

1. This photo shows the front and rear stainless housings.

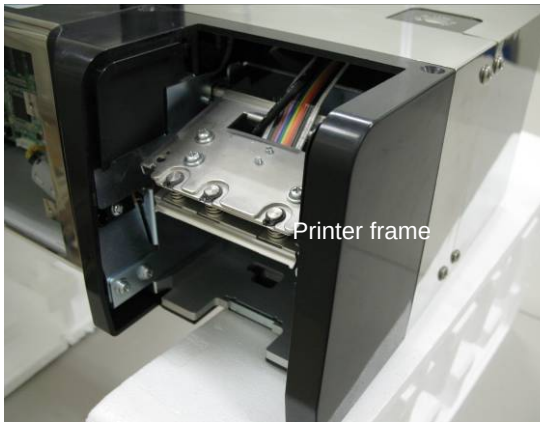
2. Make sure that the operation panel is removed. (Refer to section 5.6.3)



3. Remove the cassette unit from the main unit and also remove the printer cover.

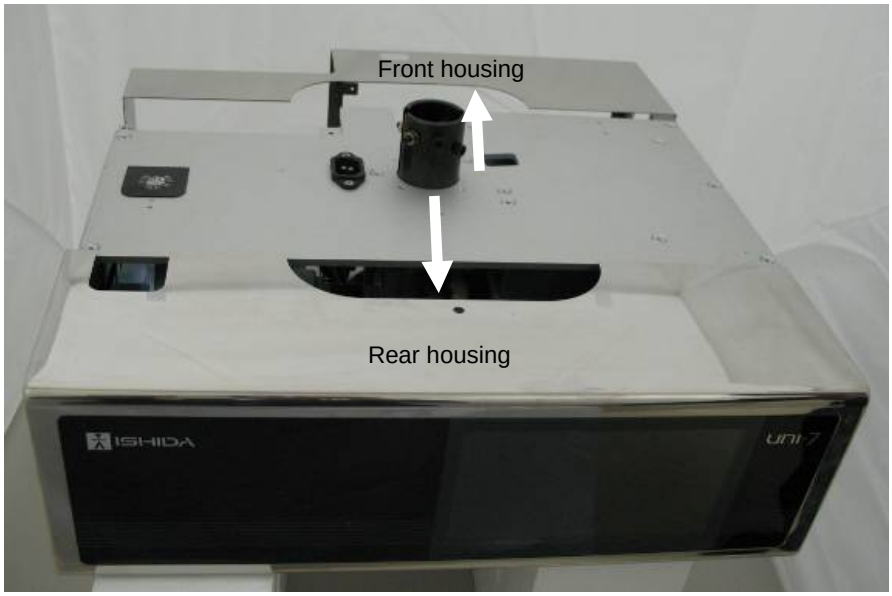


4. Remove the printer frame.



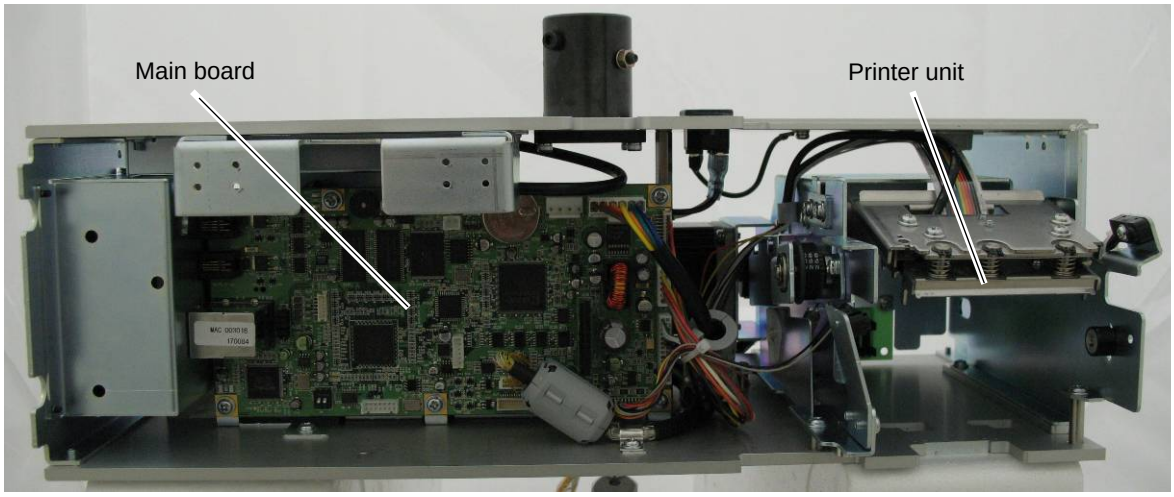
5. Remove the ten screws fixing both front and rear stainless-steel housings.

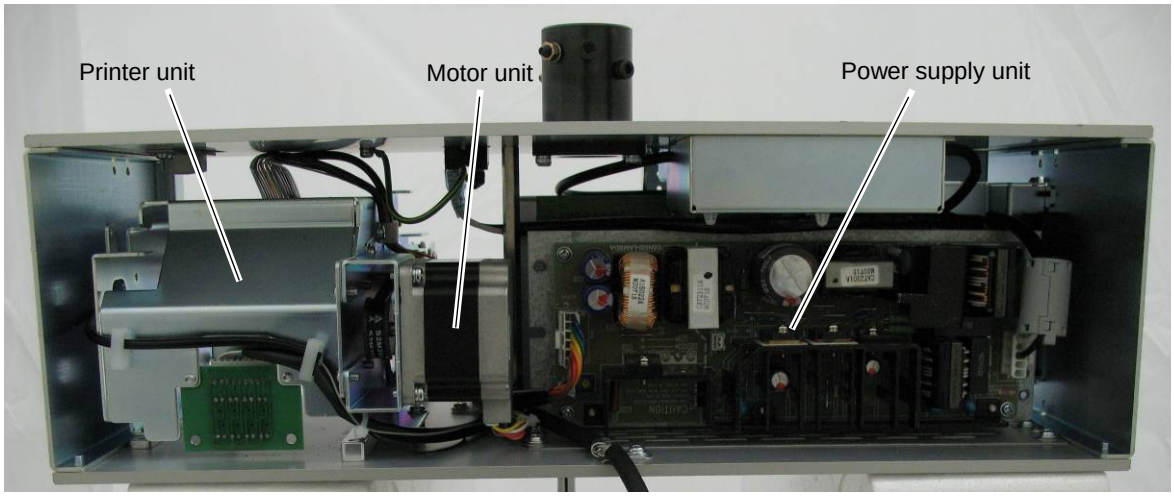
6. Slide to remove both front and rear stainless-steel housings.



7. Unplug the harness connected with the display control board located inside of the rear housing.

8. These photos show the front and rear views.

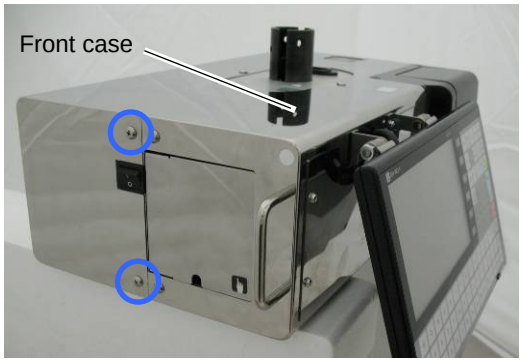


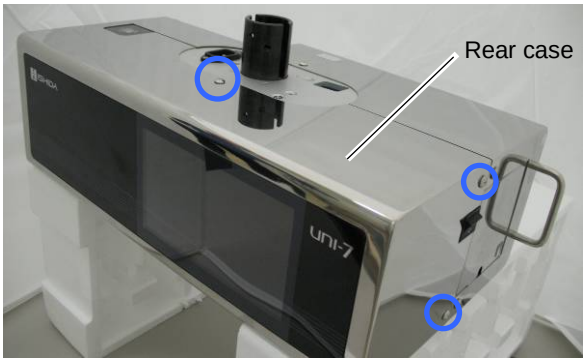


* Reverse this procedure for assembly.

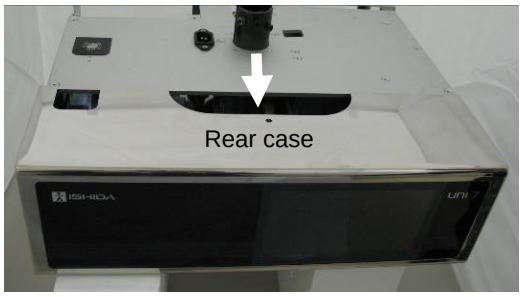
5.6.5 POWER SUPPLY UNIT

1. Remove the five screws fixing the rear stainless-steel case.

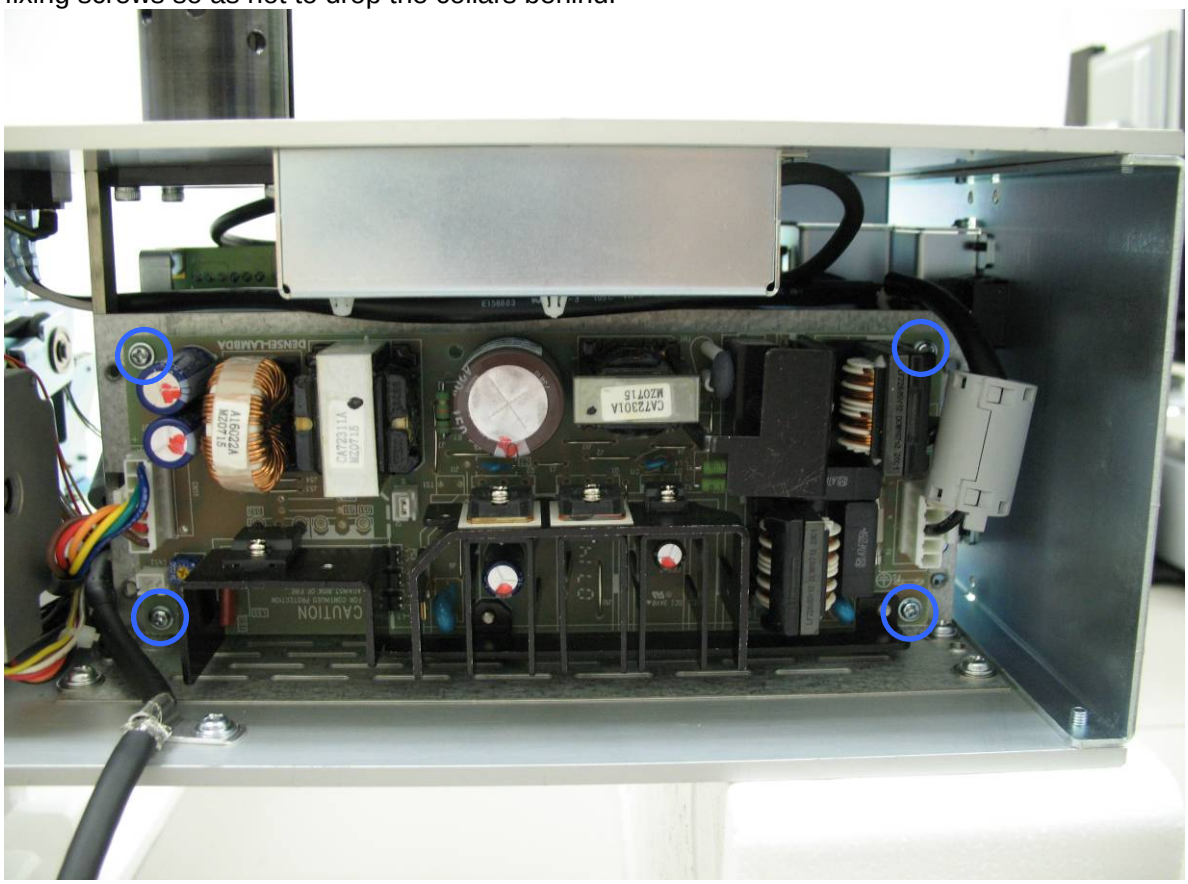




2. Slide to remove the rear case of the main unit.



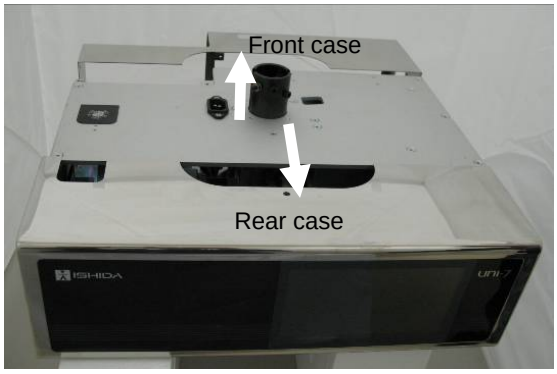
3. Unplug all harnesses connected with the power supply board and carefully remove the four fixing screws so as not to drop the collars behind.

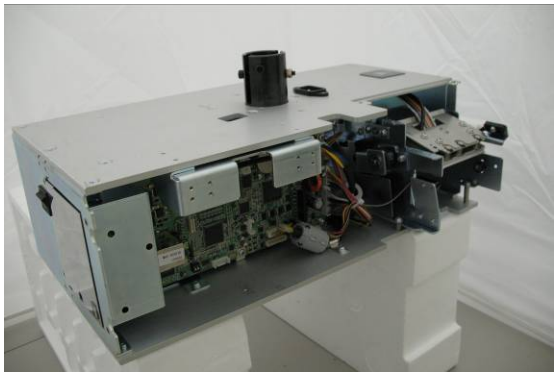


* Reverse this procedure for assembly.

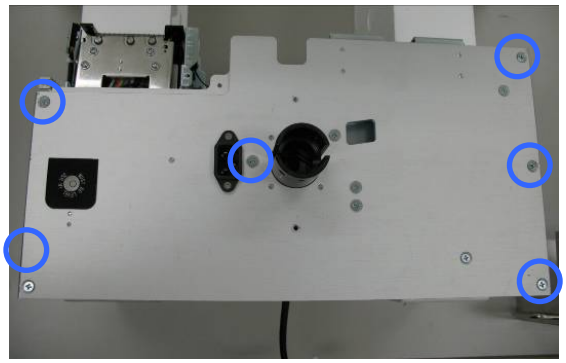
5.6.6 LOAD CELL BOARD

1. Make sure that both front and rear stainless-steel cases are removed. (Refer to section 5.6.4)

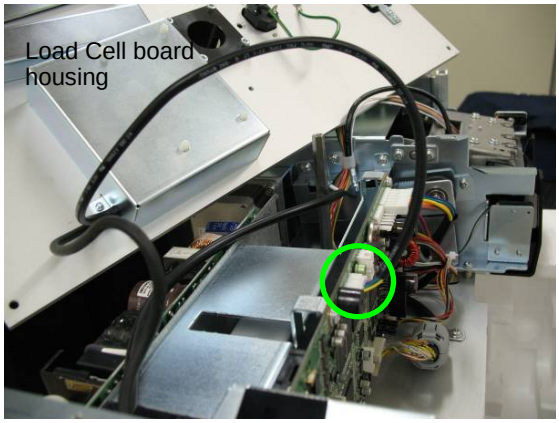




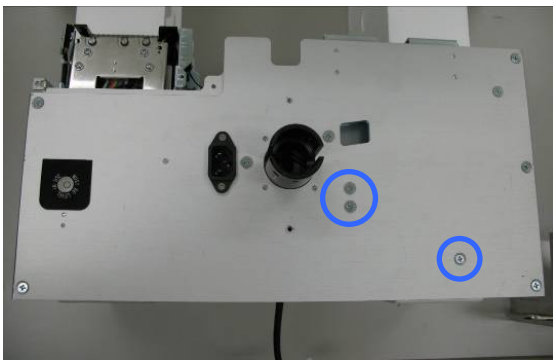
2. Remove the six screws fixing the upper case.

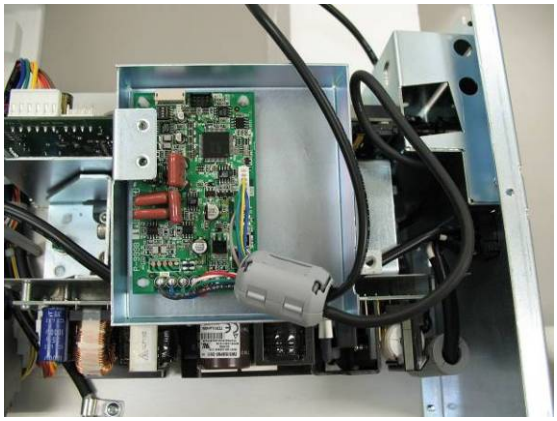


3. Detach the upper case and unplug the harness.



4. Remove the three screws fixing the load cell board housing.





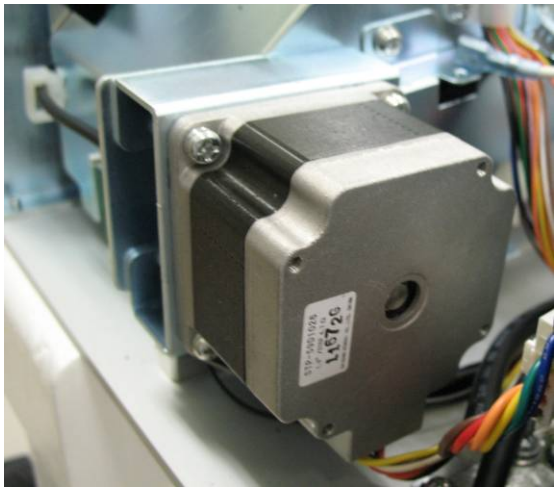
* Reverse this procedure for assembly.

5.6.7 MOTOR UNIT

1. Make sure that the rear stainless-steel case is removed. (Refer to section 5.6.4)

3. Remove the power supply unit. (Refer to section 5.6.5)

4. Remove the four fixing screws to detach the motor unit.



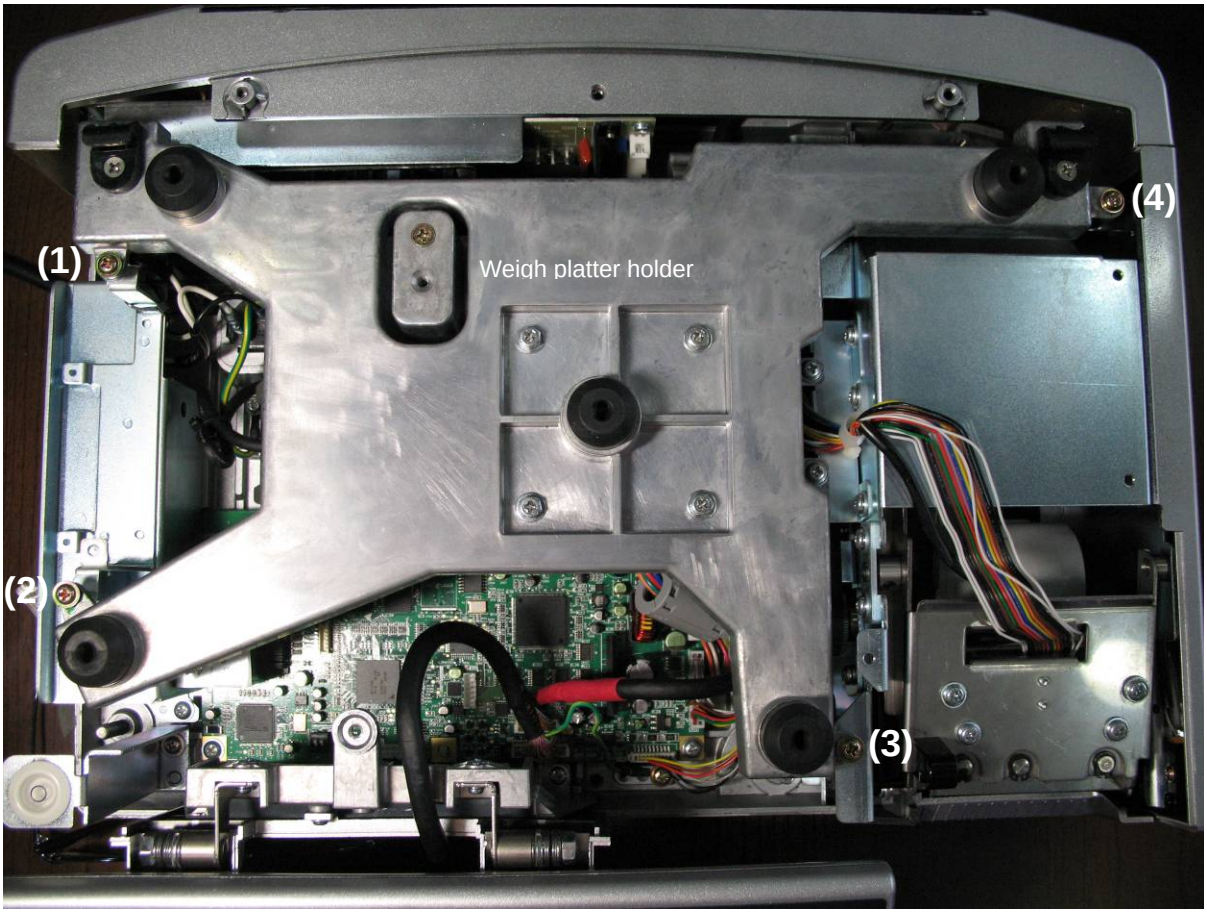
MECHANICAL ADJUSTMENT

6

6.1 FOUR CORNER LIMIT SPACE

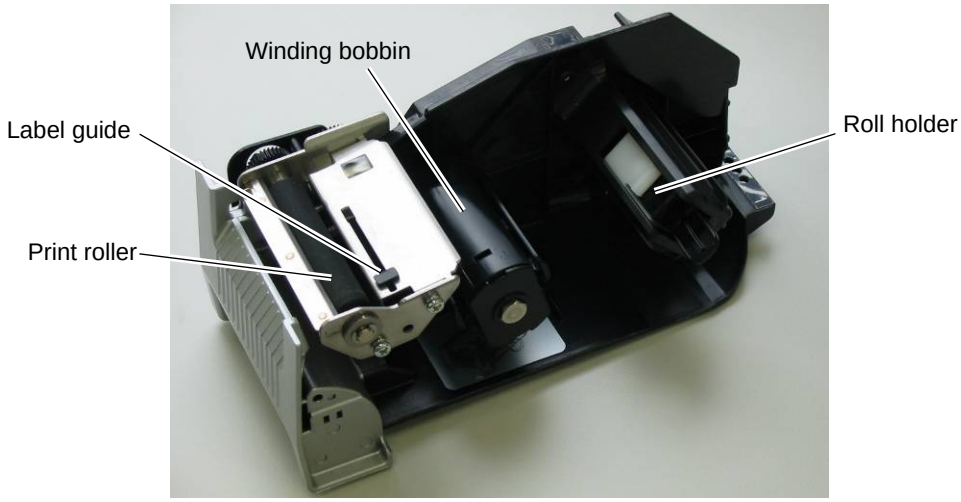
Adjust the limit spaces at four corners of the weigh platter holder to become the following values.

(1) 2mm, (2) 2mm, (3) 2.5mm, (4) 3.2mm

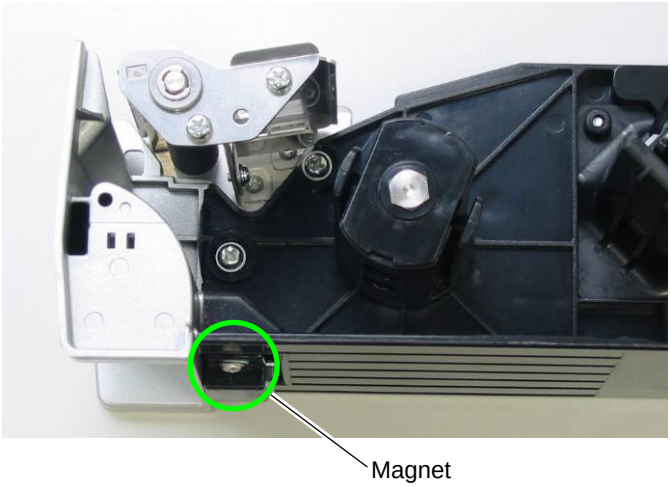


6.2 CASSETTE MAGNET POSITION

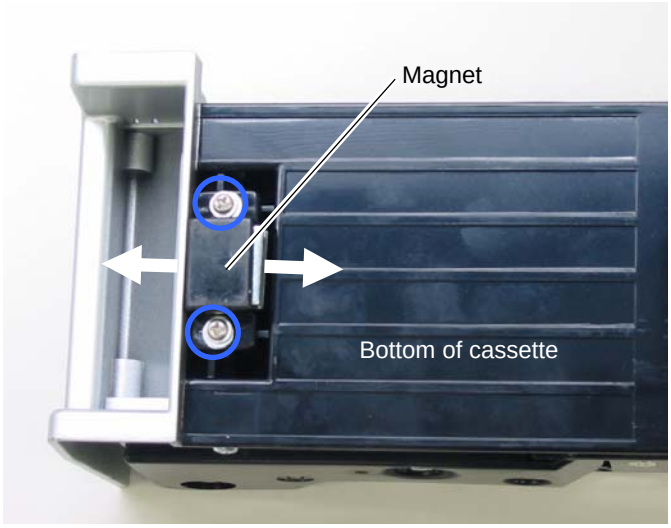
1. The following photo shows the name of each unit of the cassette unit..



2. Turn the cassette unit upside down.

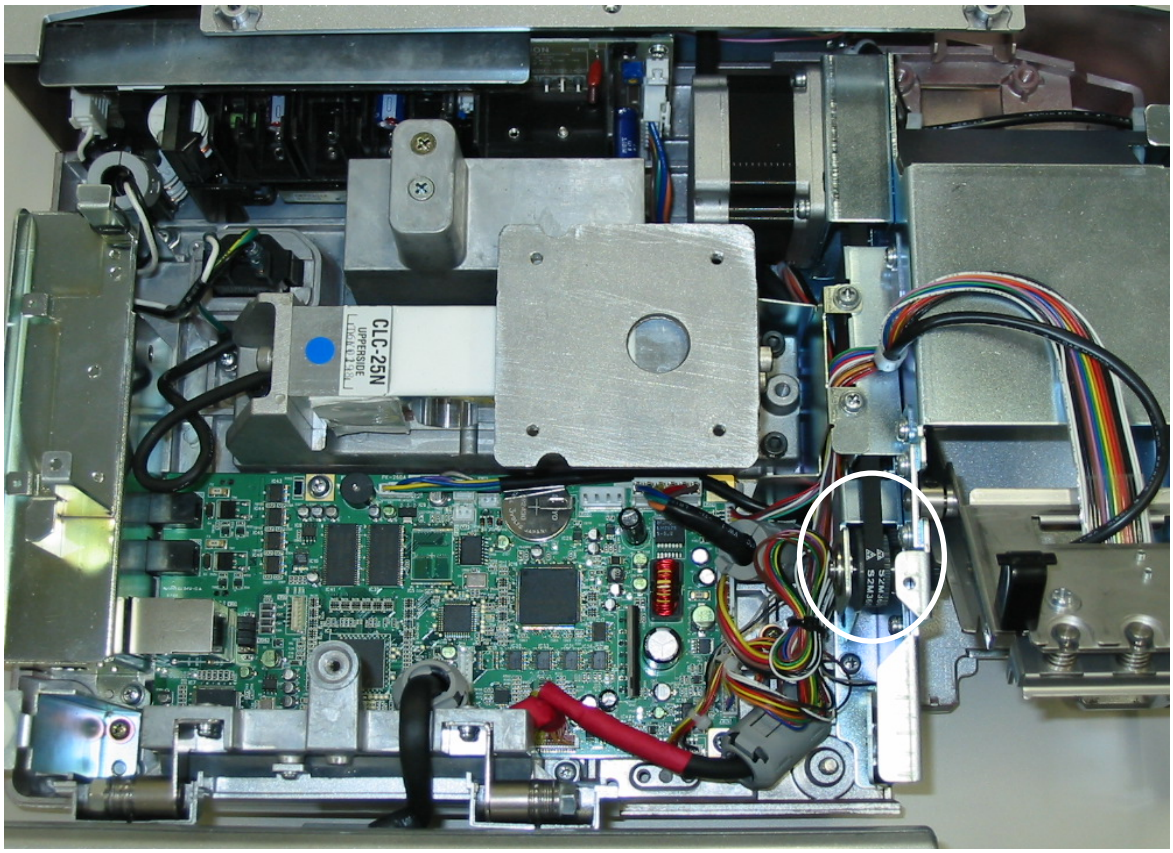


3. Loosen the two screws and move the magnet back and forth for adjustment. Be sure to tighten the screws after adjustment. Check that the cassette unit is securely fixed by the magnet.

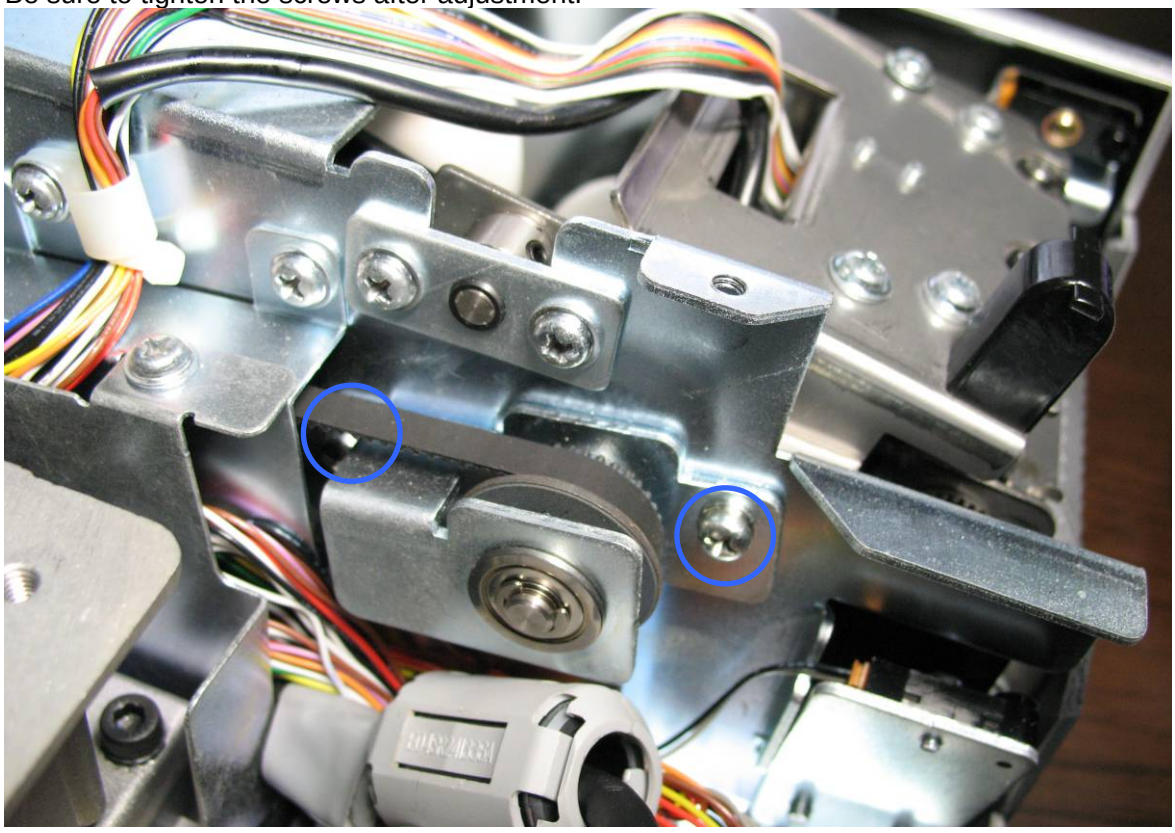


6.3 GEAR ENGAGEMENT

1. Make sure that the weigh platter holder is removed.

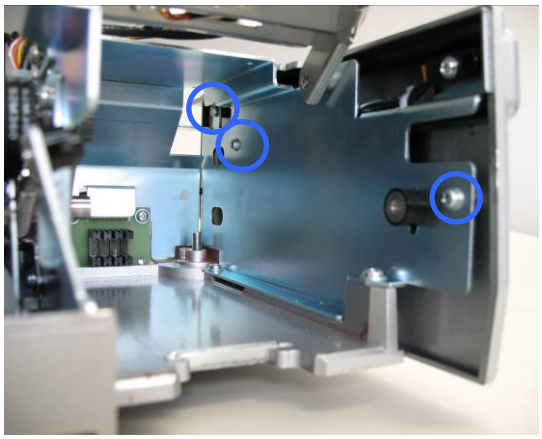


2. Loose the two screws to move the pulley to the appropriate position for better engagement. Be sure to tighten the screws after adjustment.

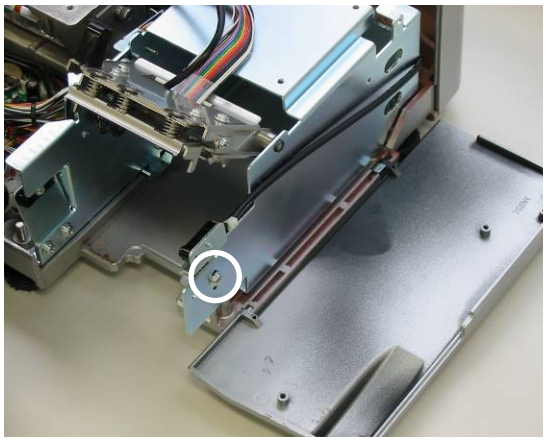


6.4 SUPPORT ROLLER

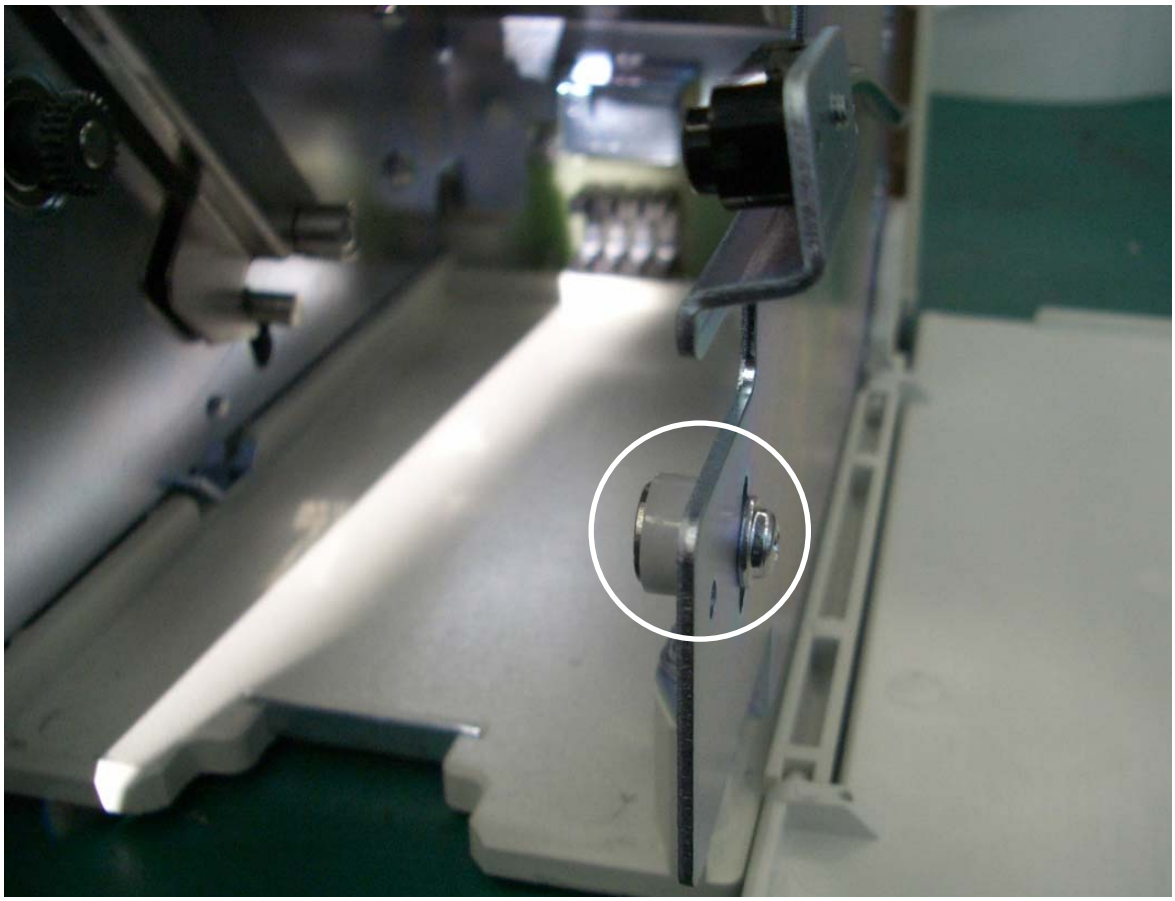
1. Remove the three screws fixing the side cover.



2. Remove the side cover.



3. Loosen the screw fixing the support roller. Be sure to tighten it after adjustment.

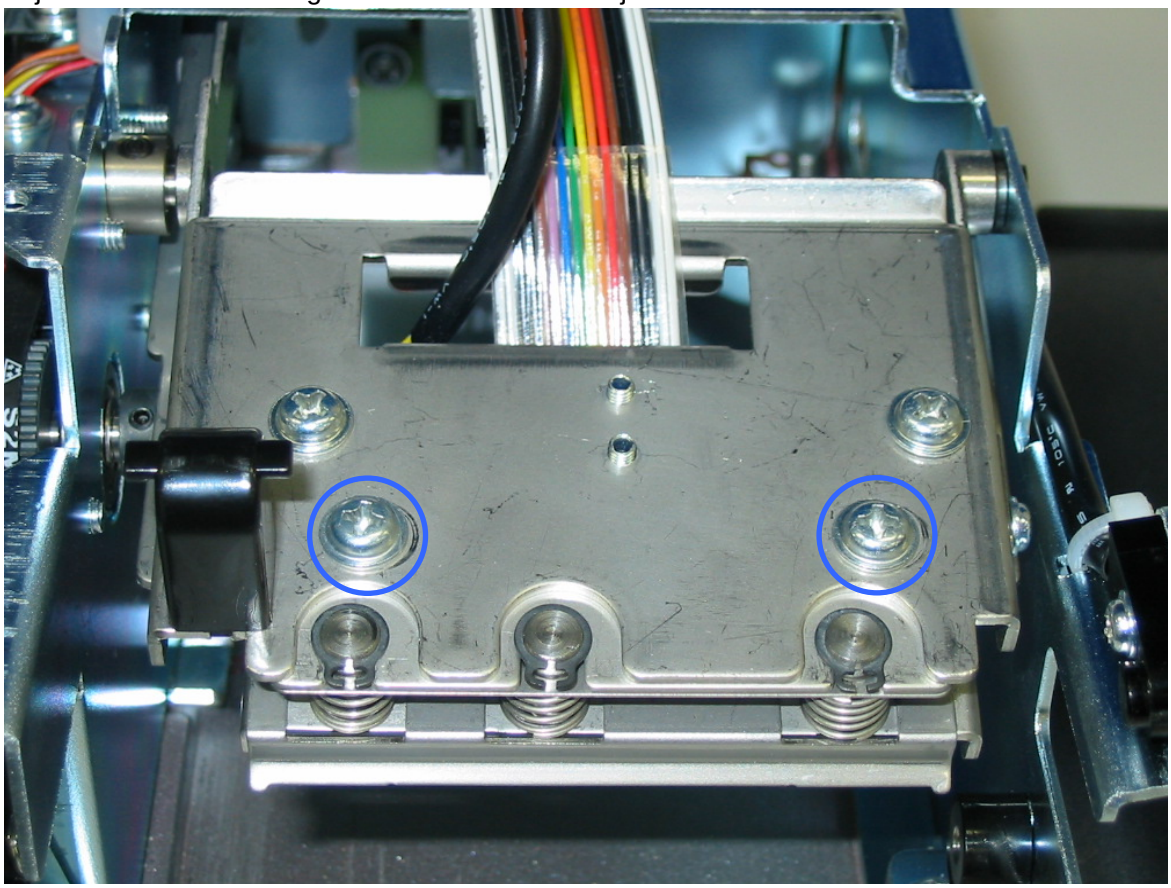


6.5 PRINT POSITION

1. Pull out the cassette unit from the main body.

2. This photo shows the position of the thermal head unit.

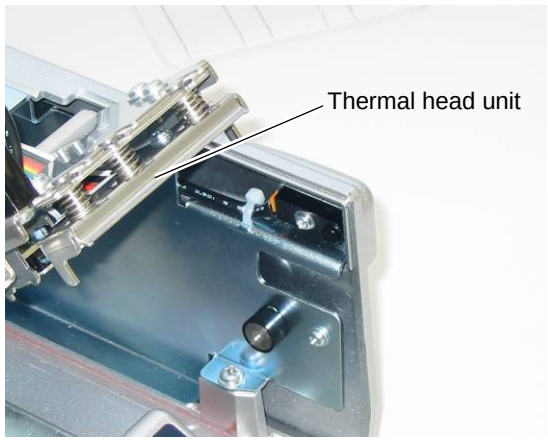
3. Loosen the two screws and move the thermal head unit back and forth and around for position adjustment. Be sure to tighten the screws after adjustment.



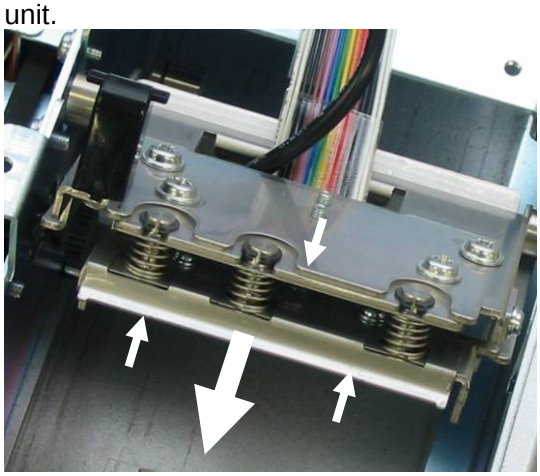
6.6 THERMAL HEAD POSITION

1. Pull out the cassette unit from the main body.

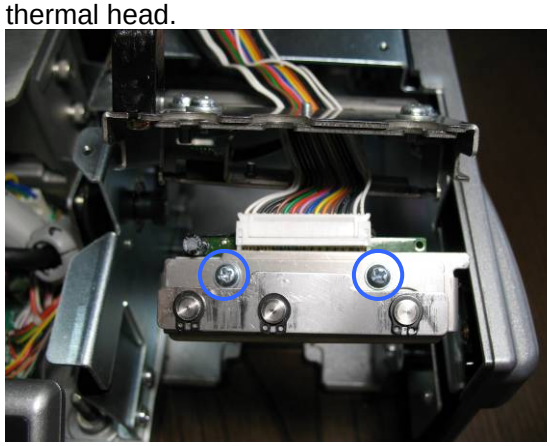
2. The following photo shows the position of the thermal head unit.



3. Squeeze the springs by holding up the head bracket and pull out the thermal head unit.



4. Loosen the two screws to adjust the gap between the bracket and the left end of the thermal head.



5-1 When using the backing paper of up to 62mm width, adjust the gap between the bracket and the left end of the thermal head to be 2mm ±0.5mm.

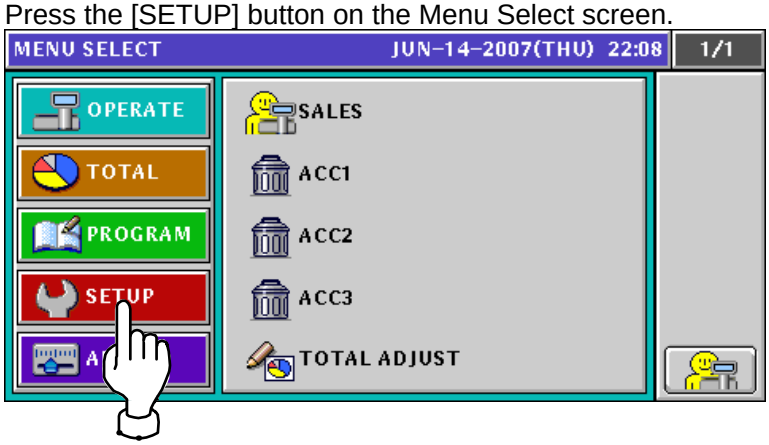
5-2 When using the backing paper of 64mm width, adjust the gap between the bracket and the left end of the thermal head to be 3mm ±0.5mm.

SETUP MODE

7

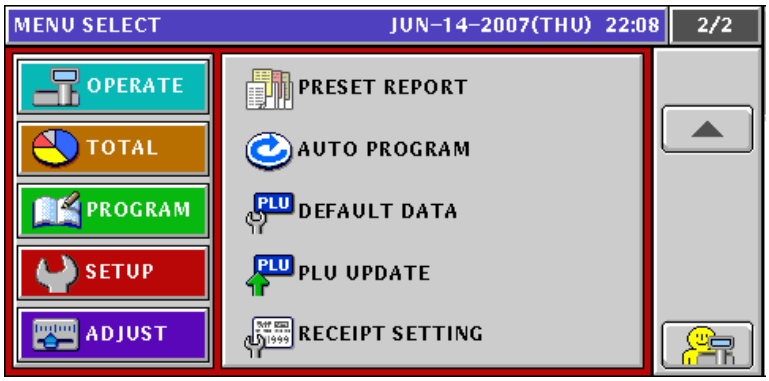
7.1 ENTERING SETUP MODE

1. Press the [SETUP] button on the Menu Select screen.

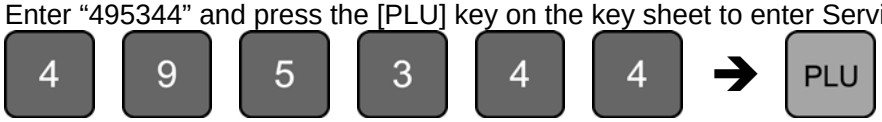


2. The Setup Menu screen appears.
Press the [▼] button when changing pages.

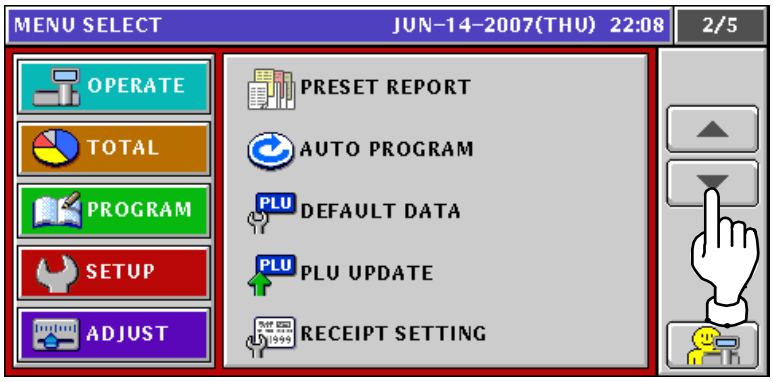
3. The next setup menu screen appears.

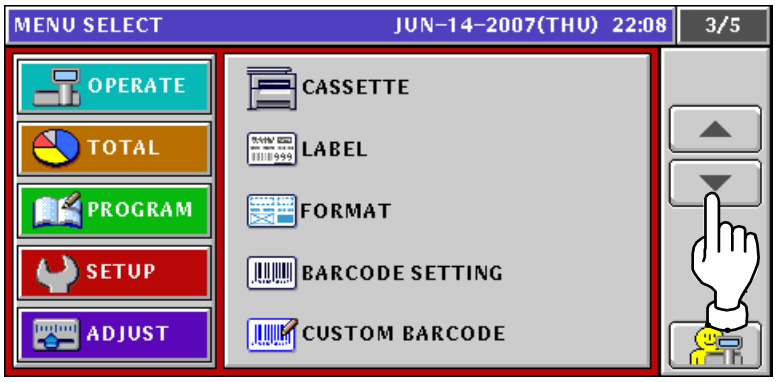


4. Enter “495344” and press the [PLU] key on the key sheet to enter Service Mode.



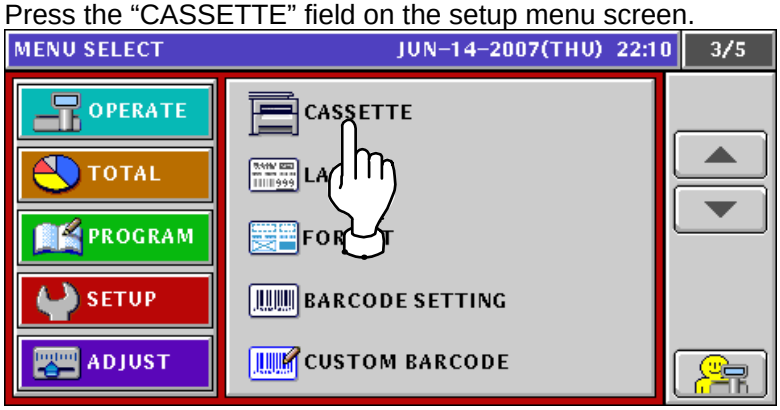
Hidden menus come up on the screen.
Press the [▼] or [▲] button when changing the pages.





7.2 CASSETTE SETTING

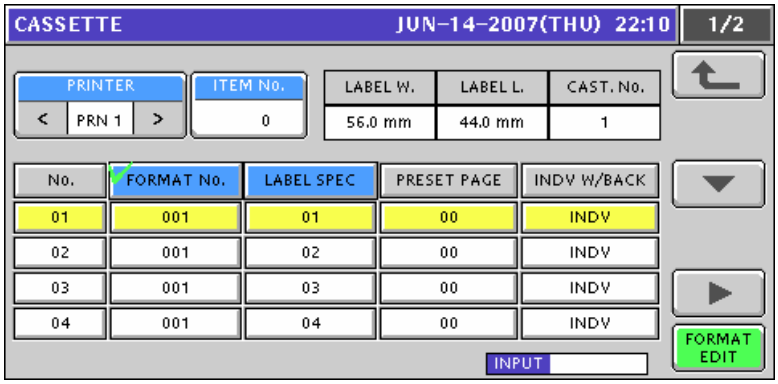
1. Press the “CASSETTE” field on the setup menu screen.



2. The Cassette screen appears.

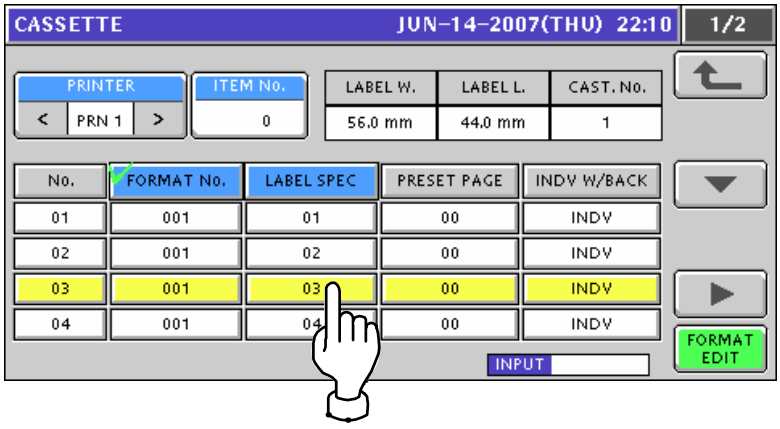
Press the [▲] or [▼] button to scroll the table on the screen up or down..

Press the [►] or [◄] button to scroll the table on the screen to right or left.

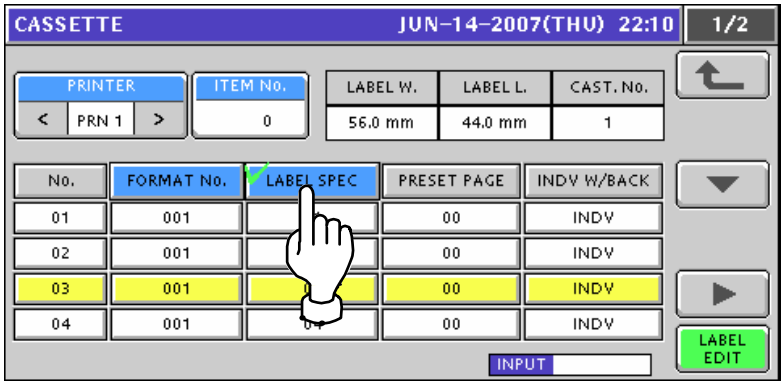


3. Press to select a desired cassette number field.

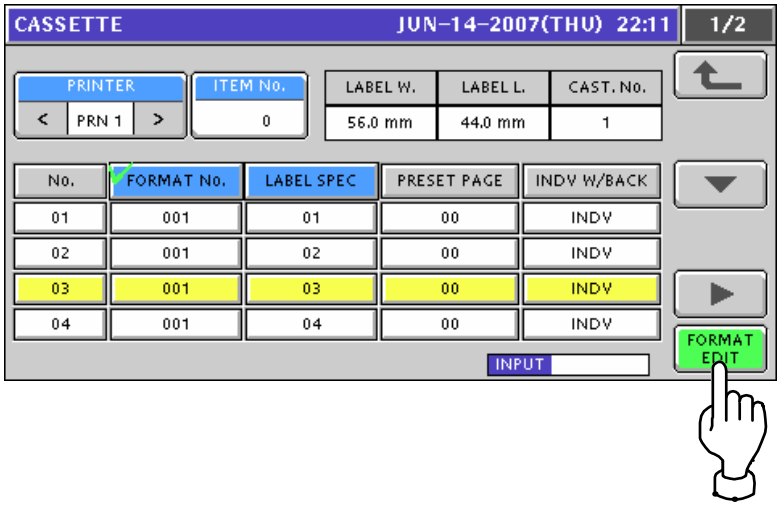
EXAMPLE Select cassette number “3”.



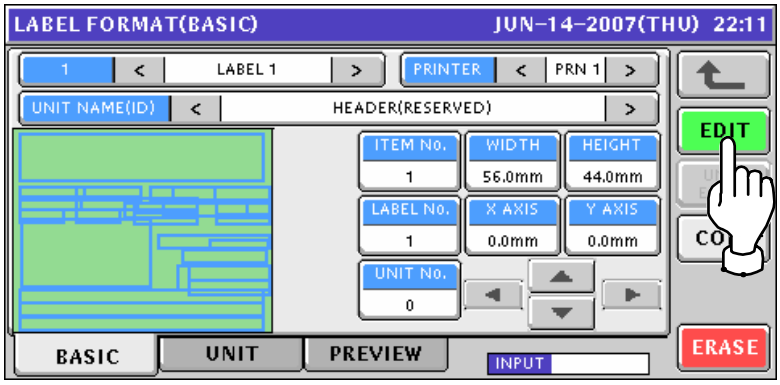
4. Press to select either “Format No.” or “Label Spec”.



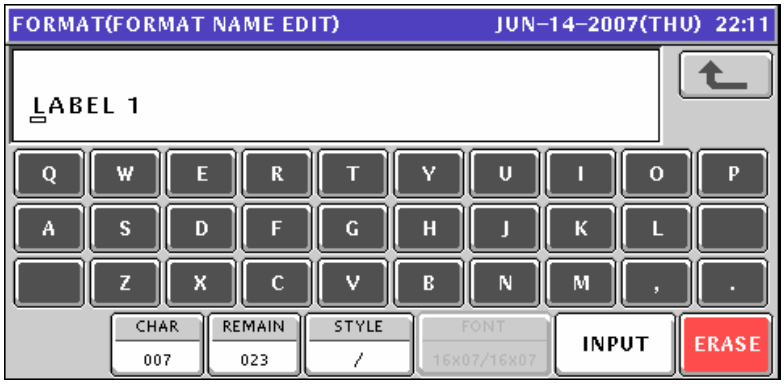
5. Press the [FORMAT EDIT] button.



6. The Label Format (Basic) screen appears.
Press the [EDIT] button.

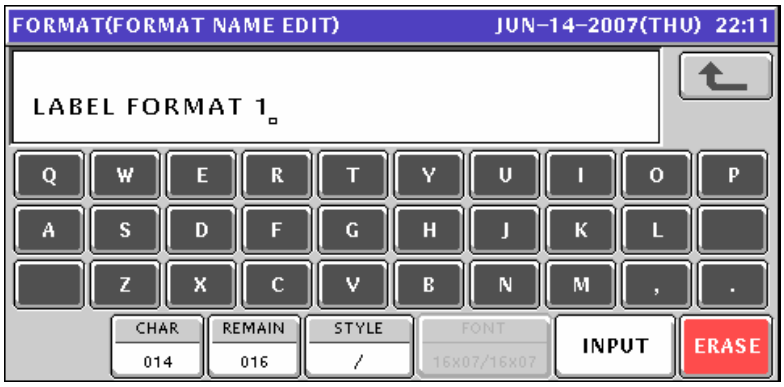


7. The following text edit screen appears.

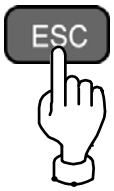


Enter a desired text according to the procedure described in Appendix “Text Editing”.

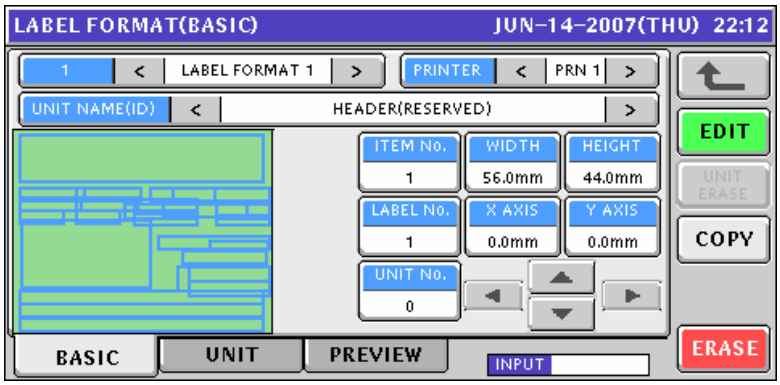
EXAMPLE “LABEL FORMAT 1”



Press the [ESC] key on the key sheet.

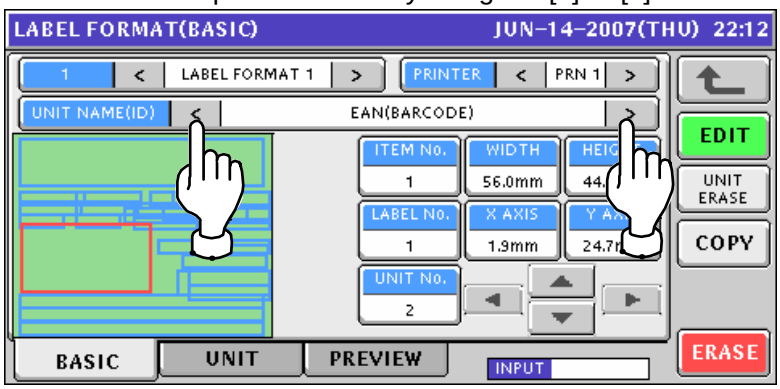


8. The edited name is shown on the screen.

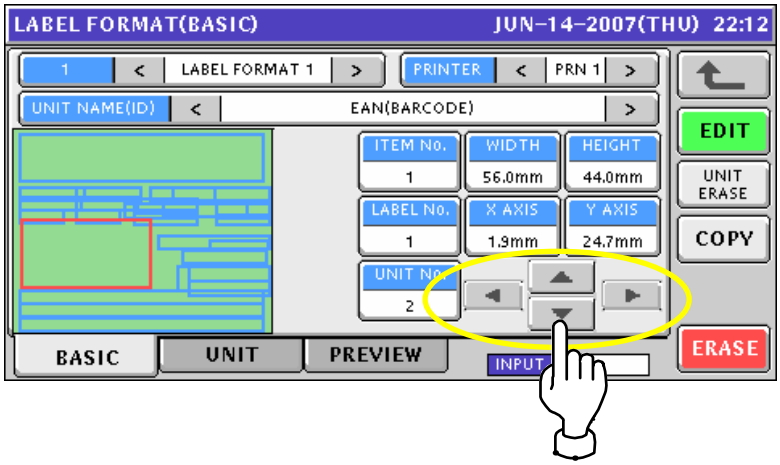


ITEM NO.	Enter a numeric value and press this field.
WIDTH	Enter a numeric value and press this field.
HEIGHT	Enter a numeric value and press this field.
LABEL NO.	Enter a numeric value and press this field.
UNIT NO.	Enter a numeric value and press this field.

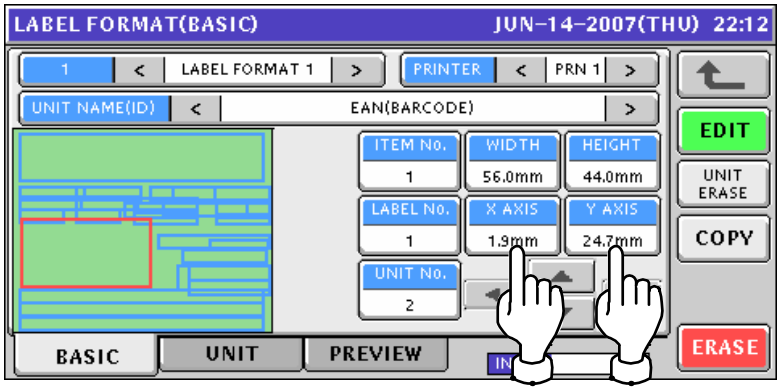
9. Select a desired print unit data by using the [<] or [>] button.



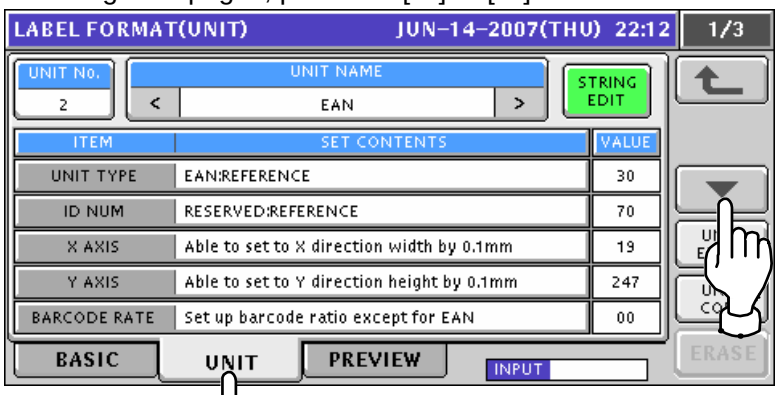
10. To move the designated area to a desired direction, press the [▲] [▼] [◄] [►] buttons,

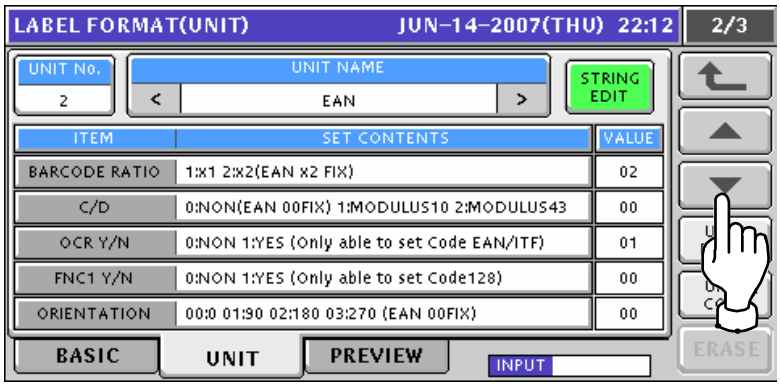


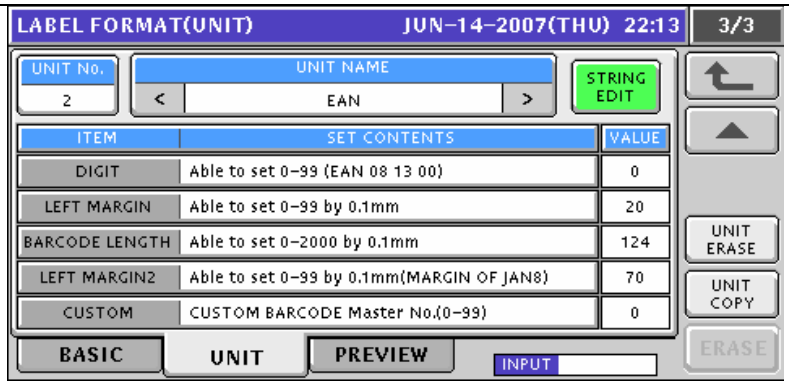
or, enter desired numeric values and press the “X-Axis” and ”Y-Axis” fields.



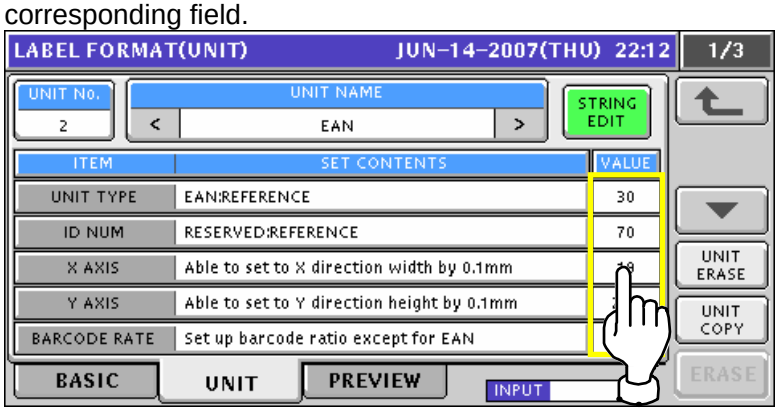
11. To display the Label Format (Unit) screen, press the [UNIT] tab.
To change the pages, press the [▼] or [▲] button.



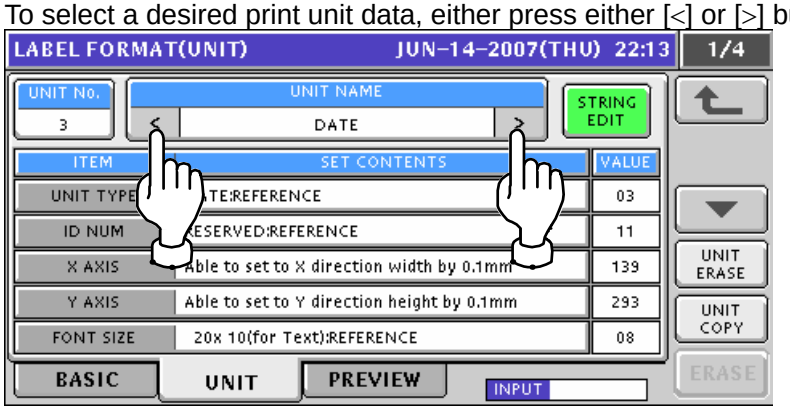




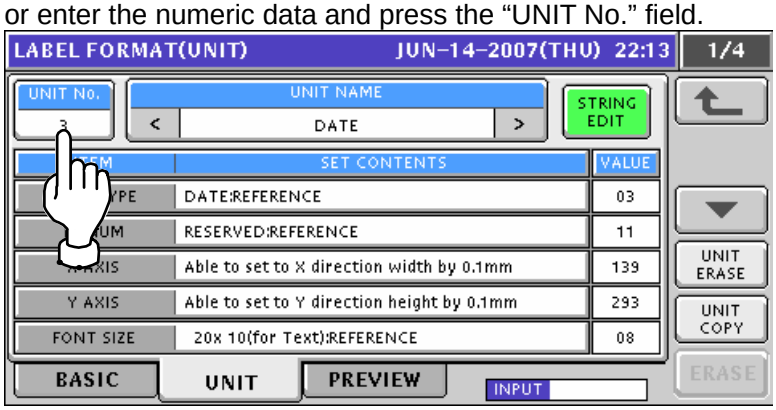
12. To change a value for each item, enter a desired numeric value and press the corresponding field.



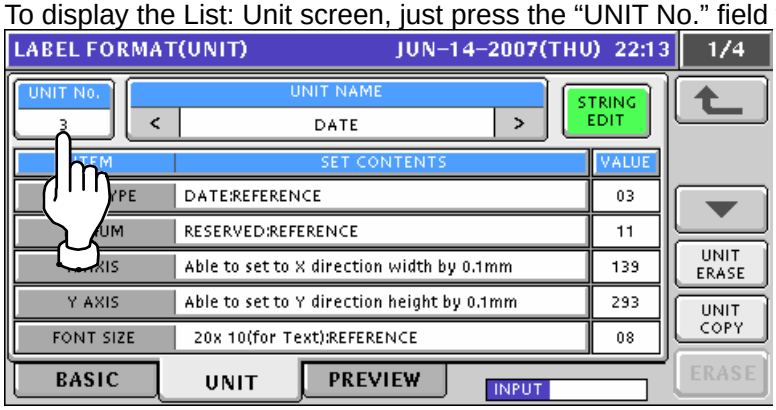
13. To select a desired print unit data, either press either [<] or [>] button,



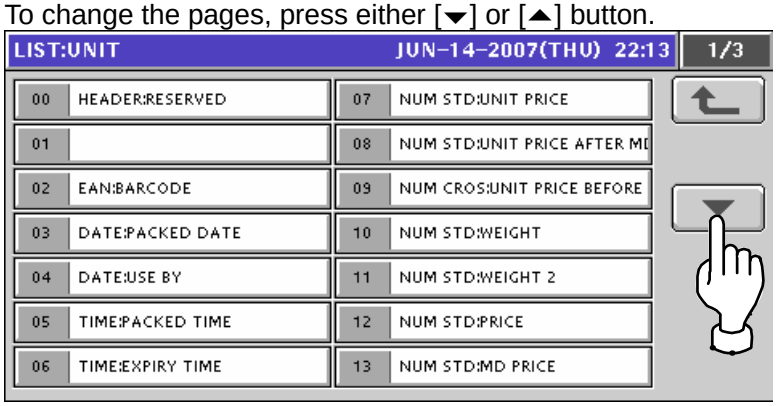
or enter the numeric data and press the “UNIT No.” field.

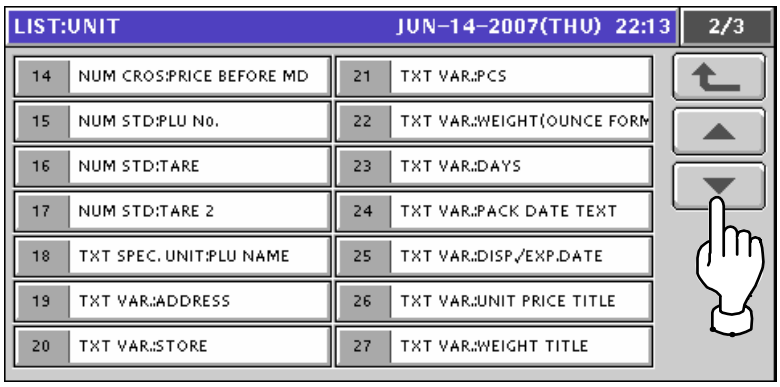


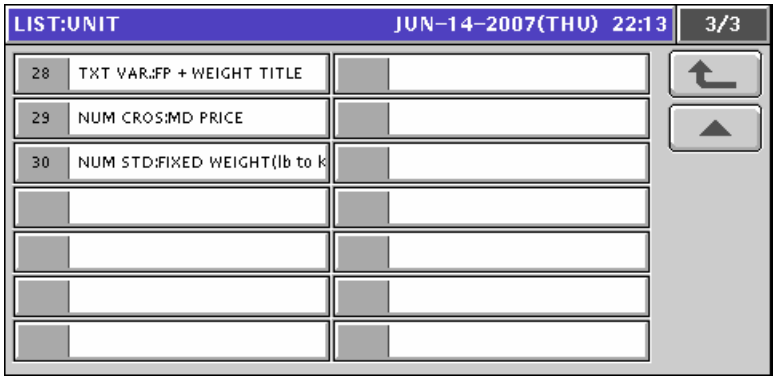
14. To display the List: Unit screen, just press the “UNIT No.” field without numeric entry.



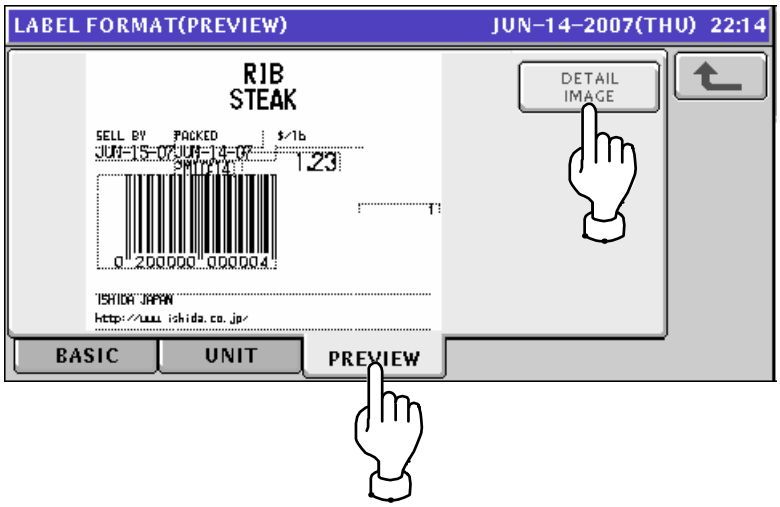
To change the pages, press either [▼] or [▲] button.



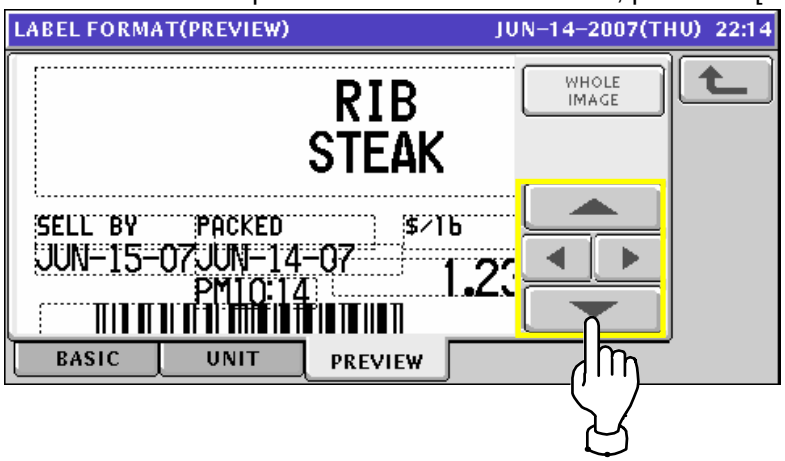




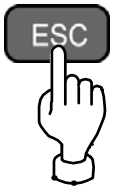
15. To display the Label Format (Preview) screen, press the [PREVIEW] tab.
To display the detail image, press the [DETAIL IMAGE] button.



To move the format position to a desired direction, press the [▲] [▼] [◄] [►] buttons.

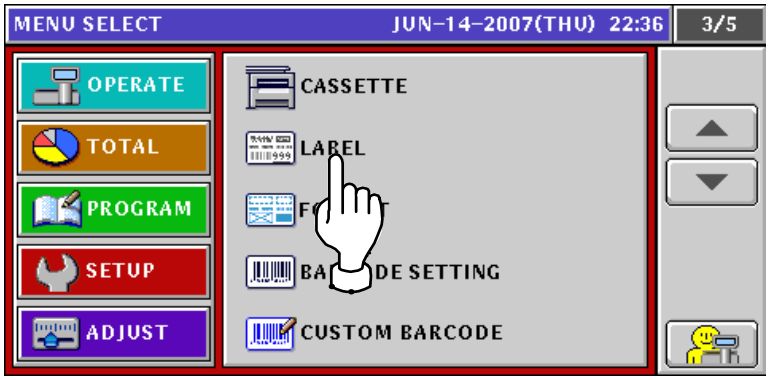


16. Press the [ESC] key on the key sheet exit from the current menu.

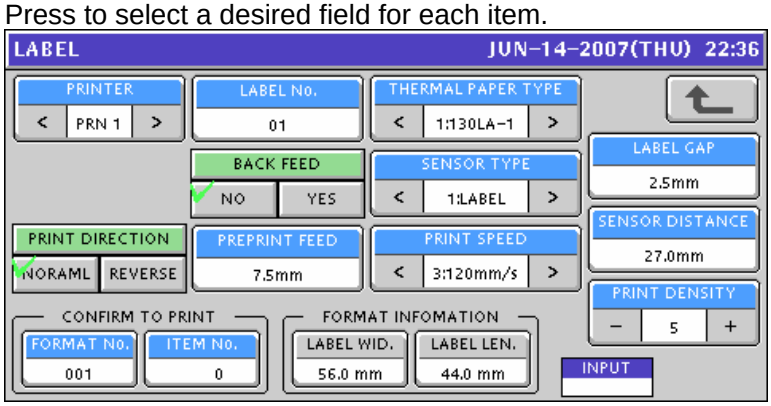


7.3 LABEL SETTING

1. Press the “LABEL” field on the setup menu screen.



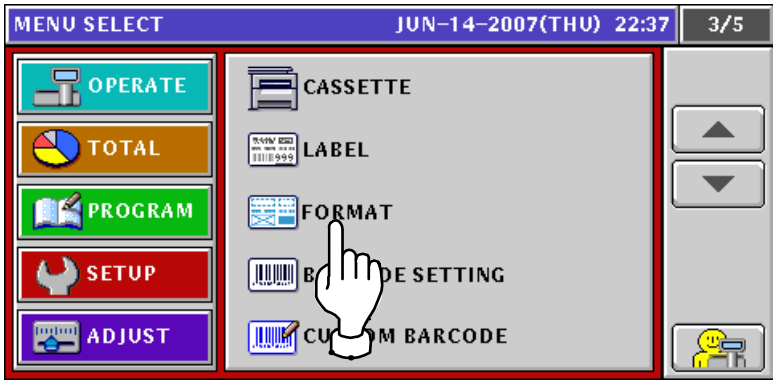
2. The label setup screen appears.
Press to select a desired field for each item.



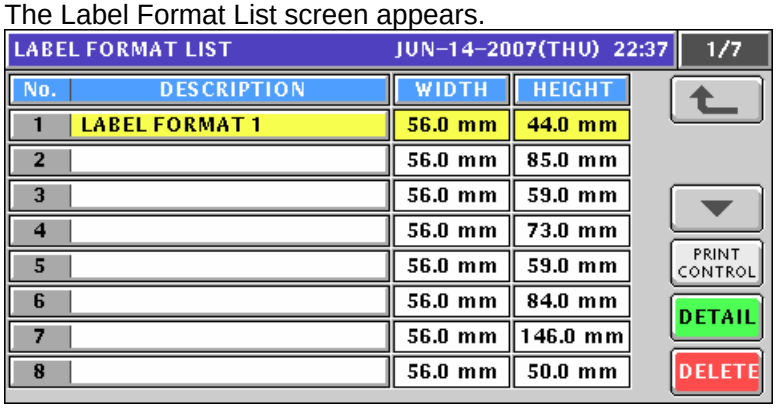
PRINTER	Select a desired printer.
LABEL NO.	Enter a numeric value and press this field.
THERMAL PAPER TYPE	Select one of the following types:
	0: Receipt
	1: 130LA-A
	3: 150LA-1
LABEL GAP	Enter a numeric value and press this field.
BACK FEED	Press to select either “NO” or “YES”.
SENSOR TYPE	Select one of the following types:
	0: No use
	1: Label
SENSOR DISTANCE	Enter a numeric value and press this field.
PRINT DIRECTION	Press to select either “NORMAL” or “REVERSE”.
PREPRINT FEED	Enter a numeric value and press this field.
PRINT SPEED	Select one of the following print speeds:
	1: 80mm/sec
	2: 100mm/sec
PRINT DENSITY	Select a desired print density level (0 – 9).
FORMAT NO.	Enter a numeric value and press this field.
ITEM NO.	Enter a numeric value and press this field.

7.4 LABEL FORMAT SETTING

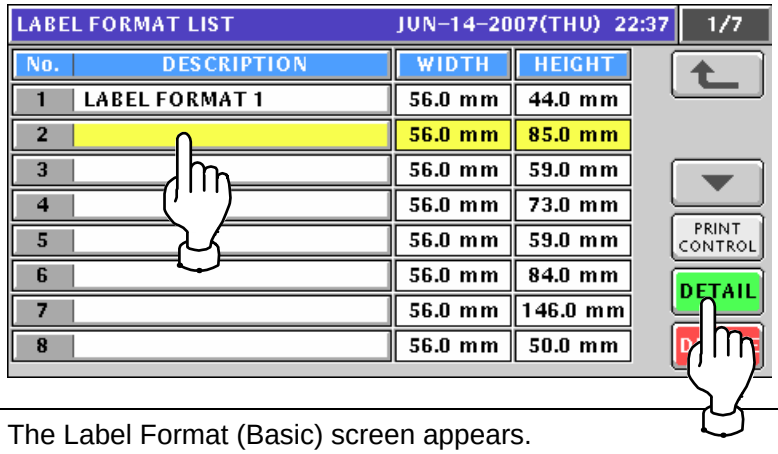
1. Press the “FORMAT” field on the setup menu screen.



2. The Label Format List screen appears.

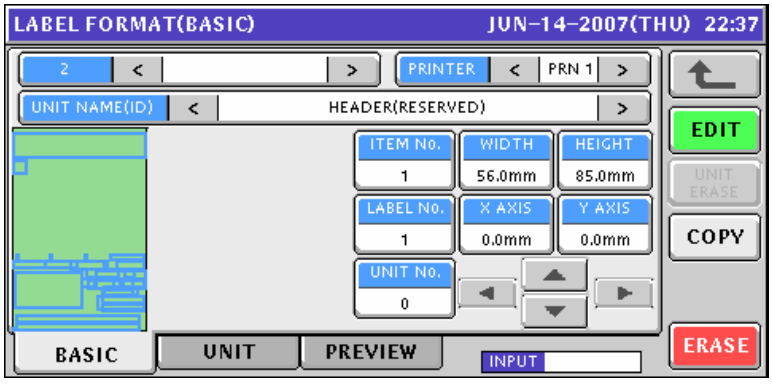


3. Press to select a desired format field and press the [DETAIL] button.



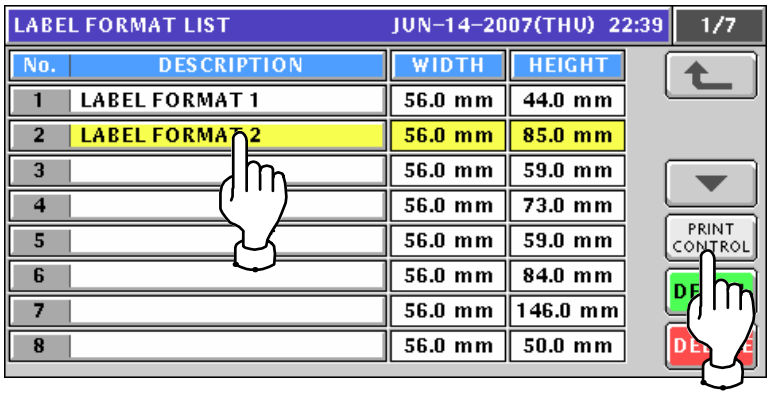
4. The Label Format (Basic) screen appears.

Refer to steps 6 through 16 in section 7.2 for further procedures.

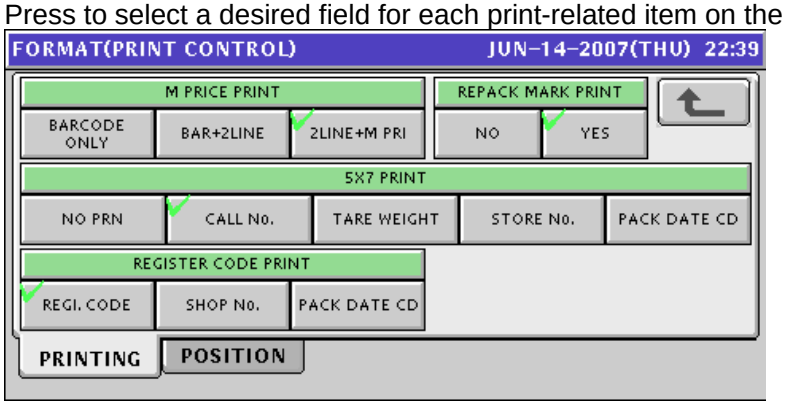


5. To change existing format data, press to select a desired field, and press the [PRINT CONTROL] button.

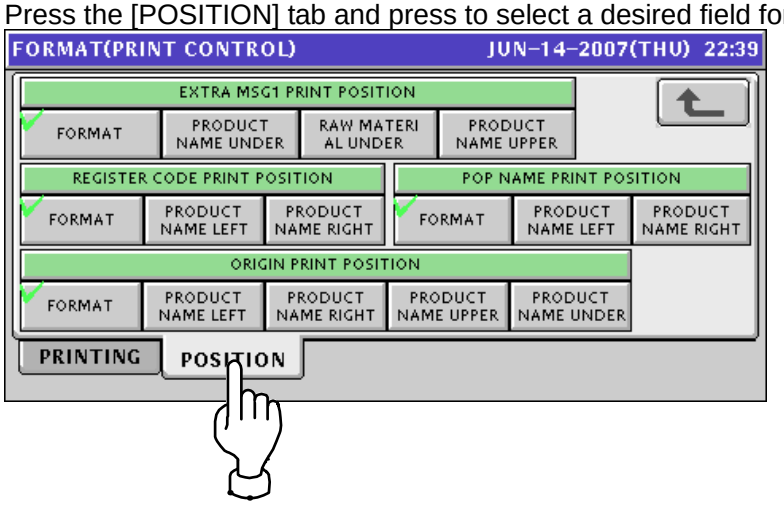
EXAMPLE "LABEL FORMAT 2"



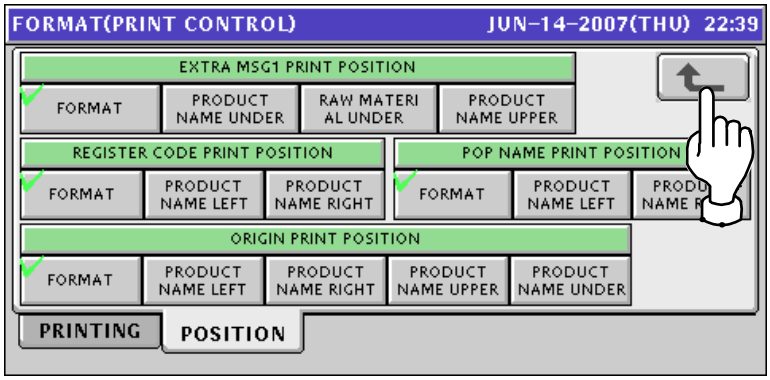
6. Press to select a desired field for each print-related item on the screen.



Press the [POSITION] tab and press to select a desired field for each control-related item

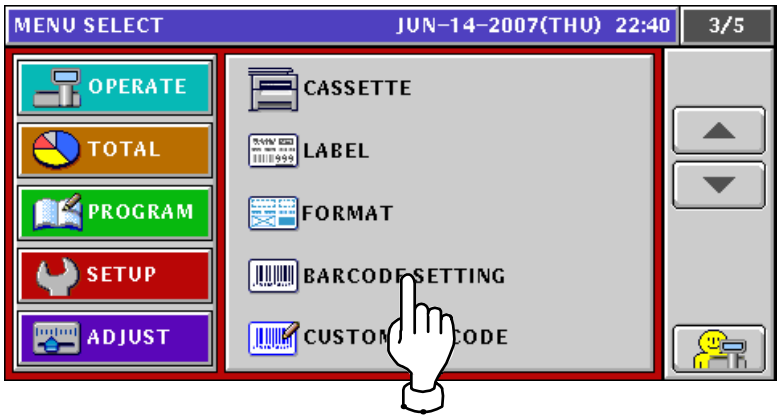


Press the Return button.

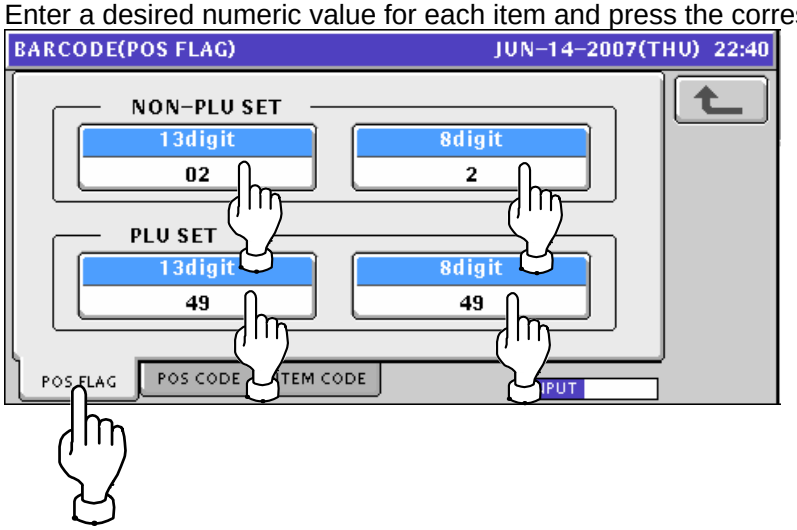


7.5 BARCODE SETTING

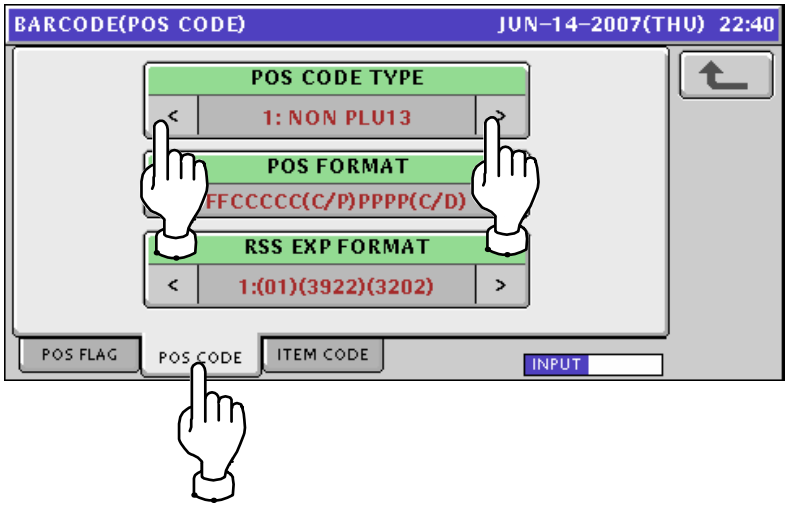
1. Press the “BARCODE SETTING” field on the setup menu screen.



2. Ensure that the Barcode (POS Flag) screen is displayed.
If not displayed, press the [POS FLAG] tab.
Enter a desired numeric value for each item and press the corresponding field.

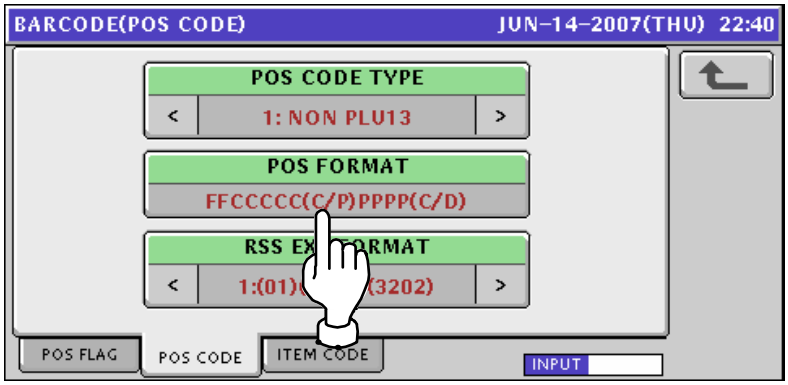


3. Press the [POS CODE] tab to display the Barcode (POS Code) screen.
Then, select a desired POS code type by using the [>] and [<] buttons.

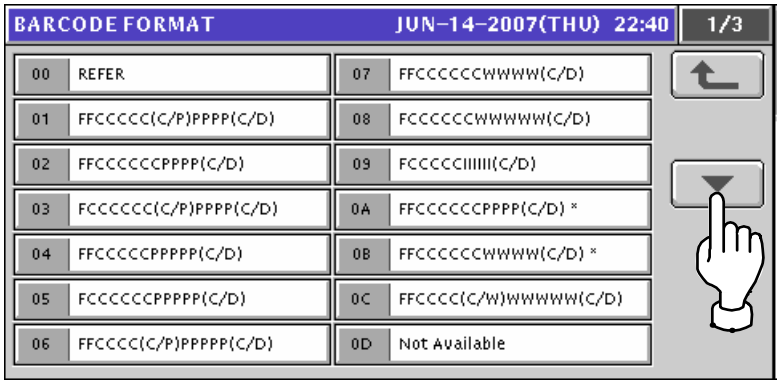


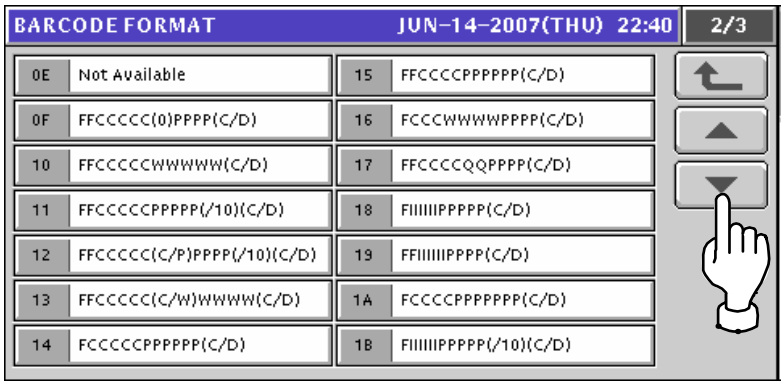
POS CODE TYPE	Select one of the following code types:
	1: Non PLU13
	2: Non PLU8
	3: PLU13
	4: PLU8
	5: RSS-14
	6: RSS-14ST
	7: RSS14STO
	8: RSS LIMITED
	9: RSS EXPANDED
	10: ITF

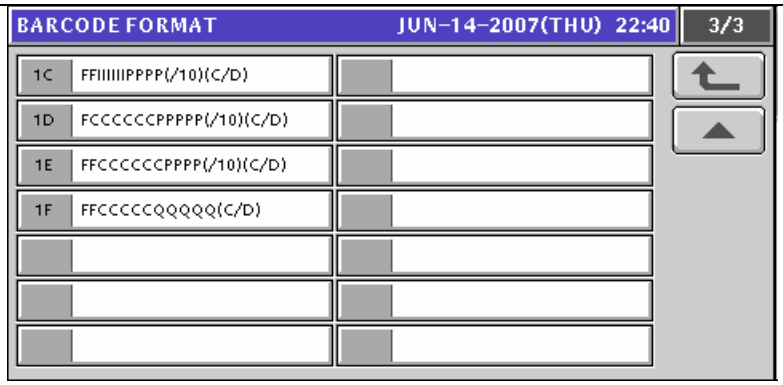
4. Press the [POS FORMAT] tab to display the Barcode Format selection screen.



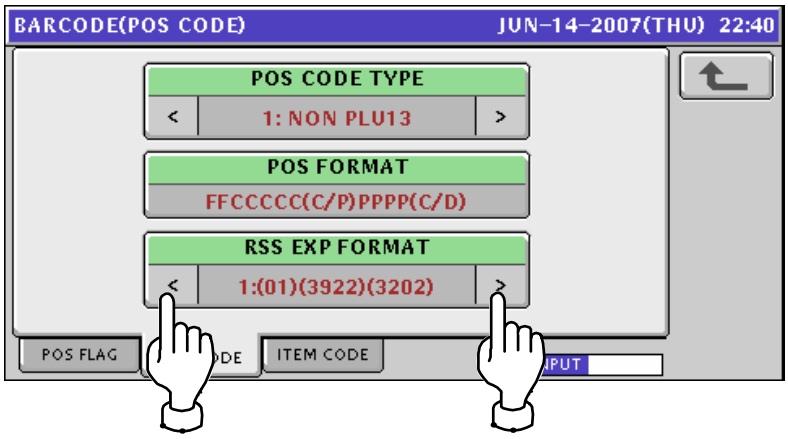
The following Barcode Format list screen appears.
Press to select a desired field to determine the barcode format.
Press either [▼] or [▲] button to change the pages.





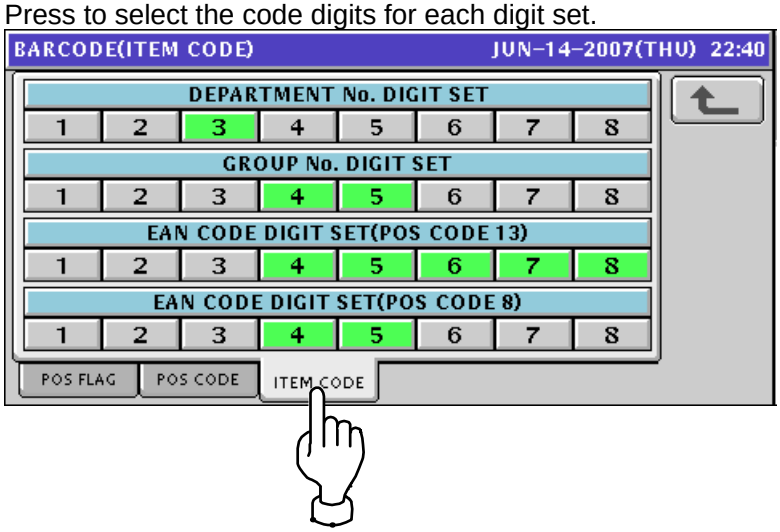


5. Select a desired RSS expanded format by using the [>] and [<] buttons.

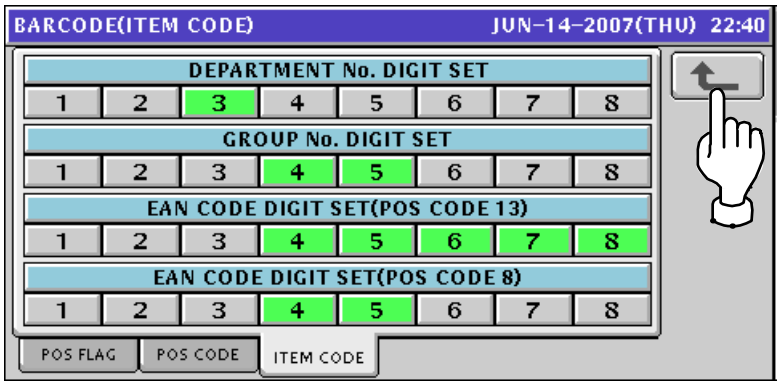


RSS EXPANDED FORMAT	Select one of the following RSS expanded formats:
	1: (01) (3922) (3202)
	2: (01) (3922) (3202) (15)

6. Press the [ITEM CODE] tab to display the Item Code screen.
Press to select the code digits for each digit set.

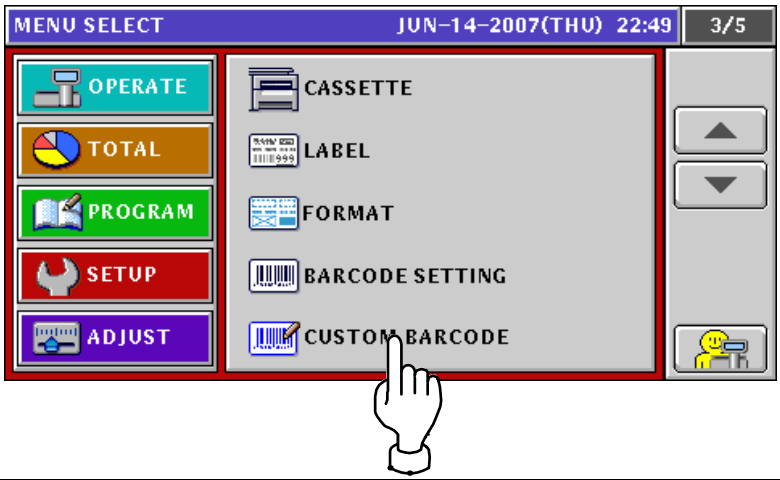


7. Press the Return button to return to the Menu Select screen.



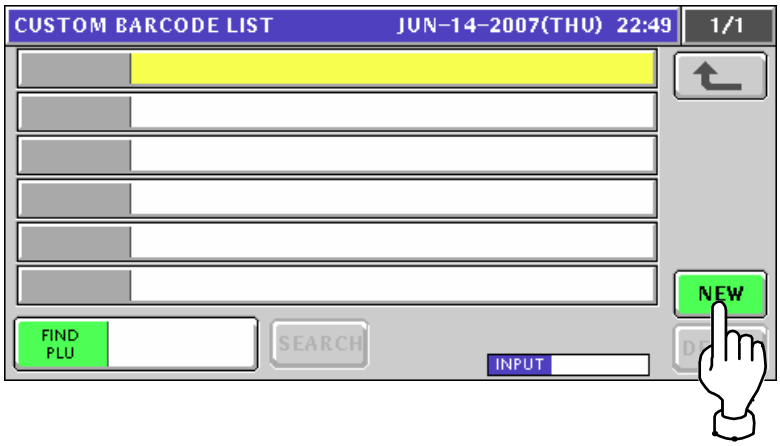
7.5 CUSTOM BARCODE SETTING

1. Press the “CUSTOM BARCODE” field on the screen.



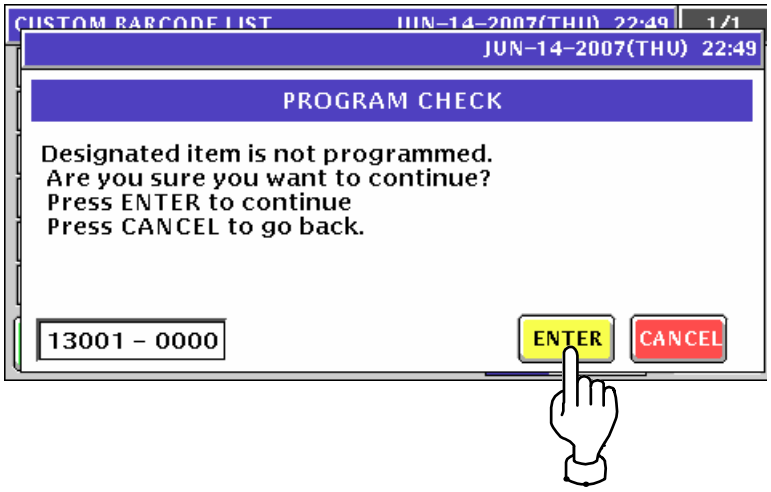
2. The Custom Barcode List screen appears.

Press the [NEW] button on the screen.



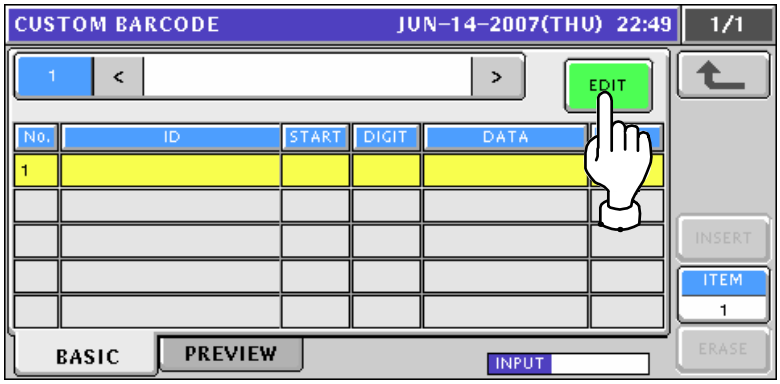
3. The following confirmation screen appears.

Press the [ENTER] button on the screen for confirmation.



4. The Custom Barcode screen appears.

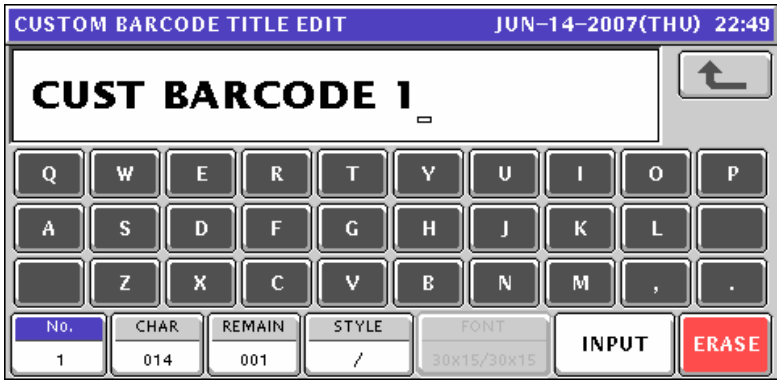
Press the [EDIT] button on the screen.



5. The following text edit screen appears.

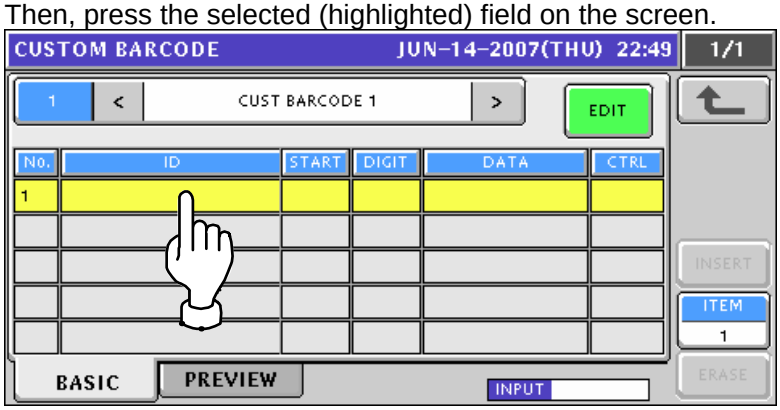
Enter a desired text according to the procedure described in Appendix “Text Editing”.

EXAMPLE “CUST BARCODE 1”

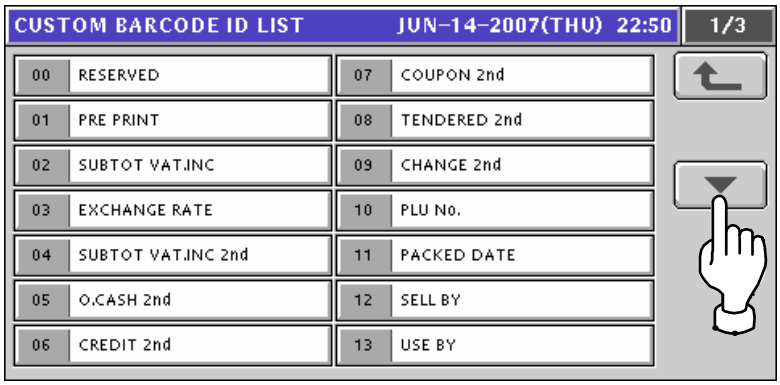


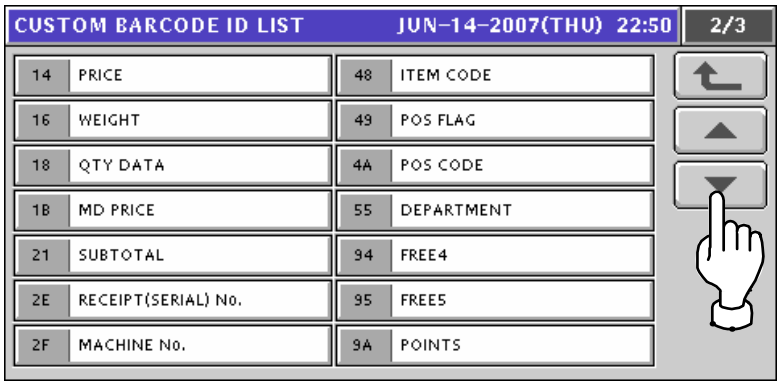
Press the [ESC] key on the key sheet.

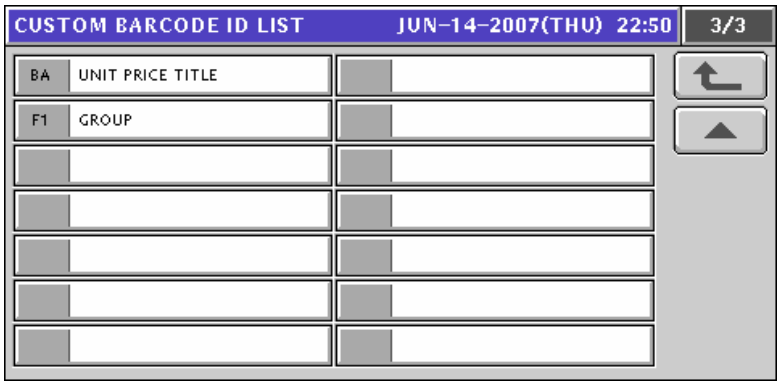
6. The Custom barcode screen with edited title name appears.
Then, press the selected (highlighted) field on the screen.



The following ID list screens appear.
Press either [▼] or [▲] button to change the pages.

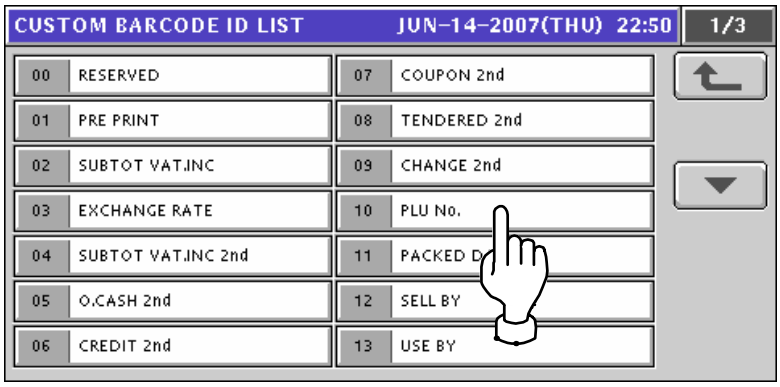






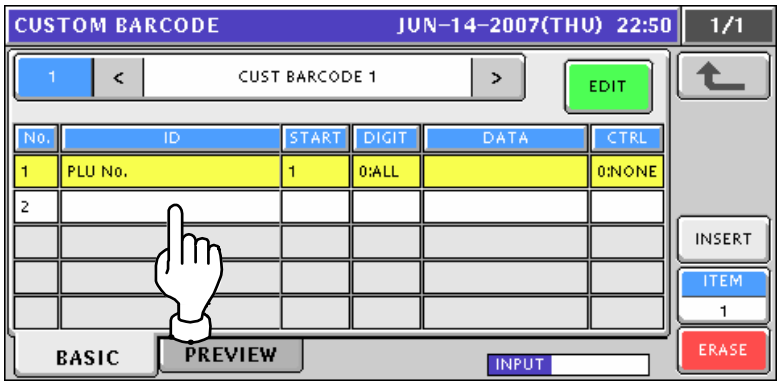
7. Press to select a desired item on the list.

EXAMPLE "PLU No."

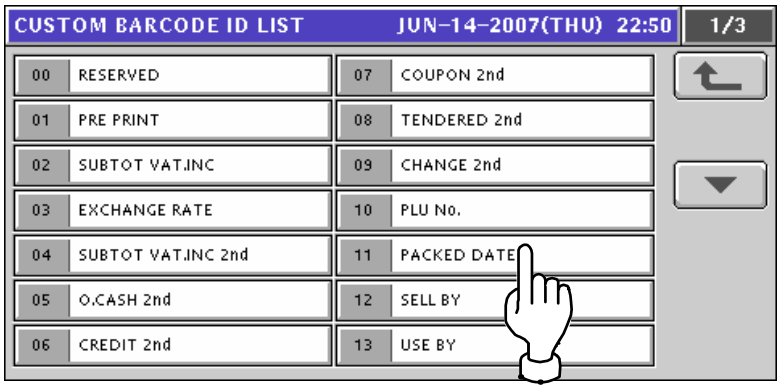


Then, the following screen appears.
To continue further registration, press to select a desired field on the screen.

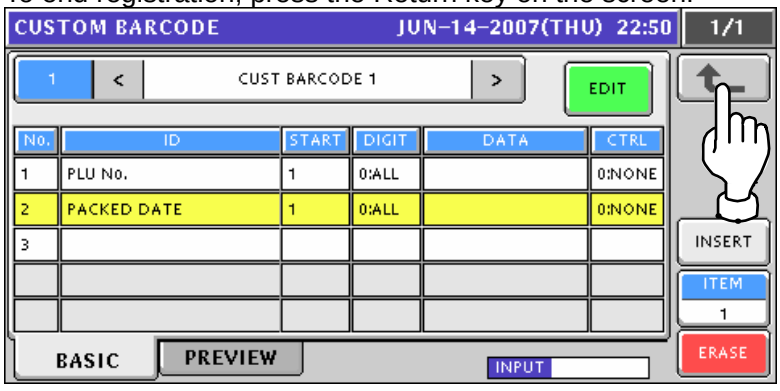
EXAMPLE "2"



Press to select a next desired item on the list.

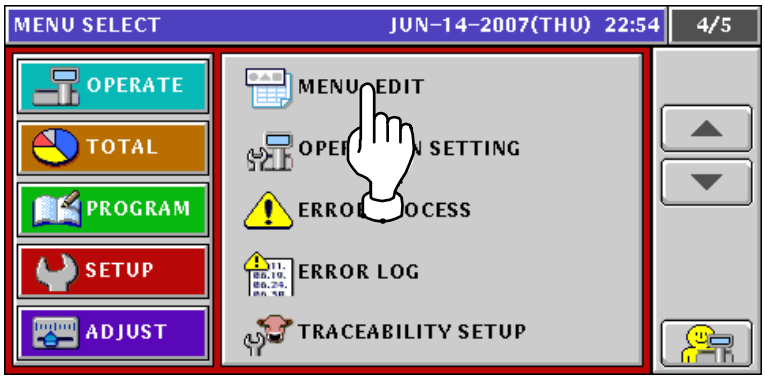


To end registration, press the Return key on the screen.

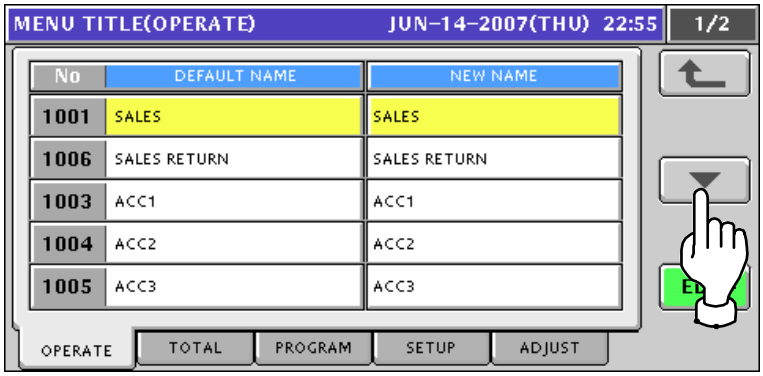


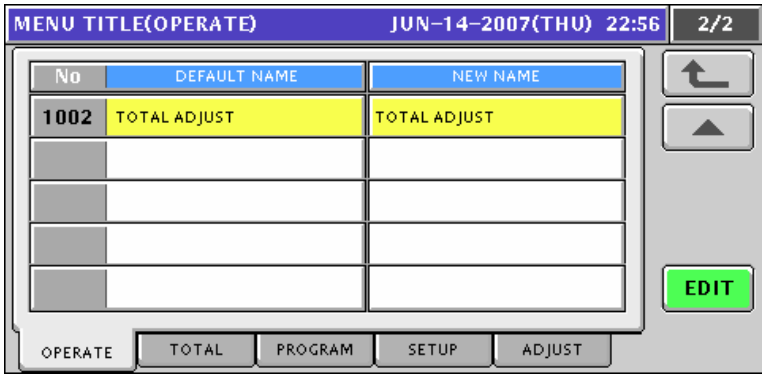
7.6 MENU TILTLE EDITING

1. Press the “MENU EDIT” field on the screen.

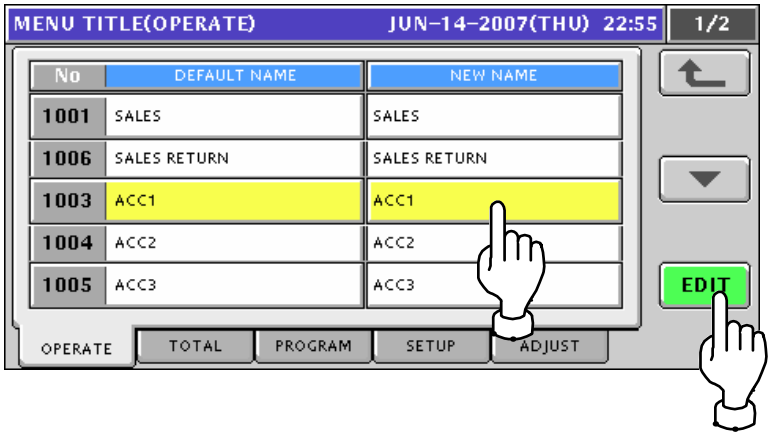


2. The Menu Title (Operate) screen appears.
Press either [▼] or [▲] button to change the pages

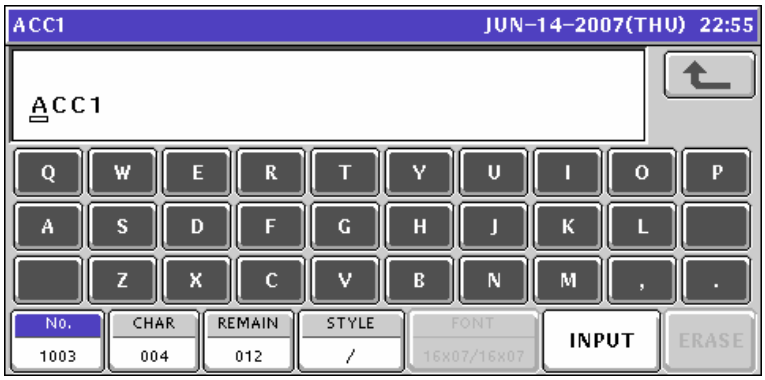




Press to select a desired field on the screen, and press the [EDIT] button.

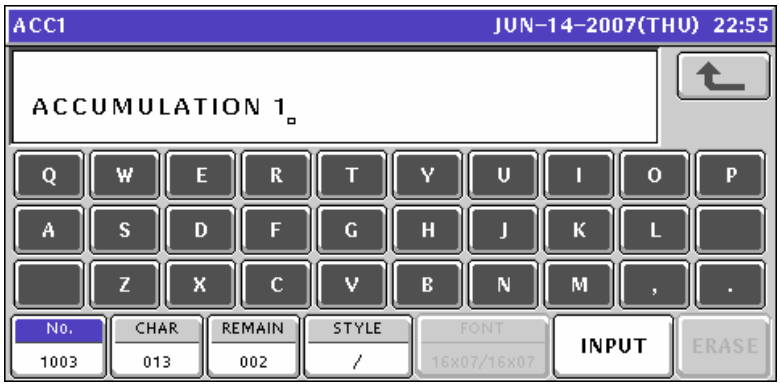


3. The following text edit screen appears.

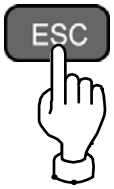


Enter a desired text according to the procedure described in Appendix “Text Editing”.

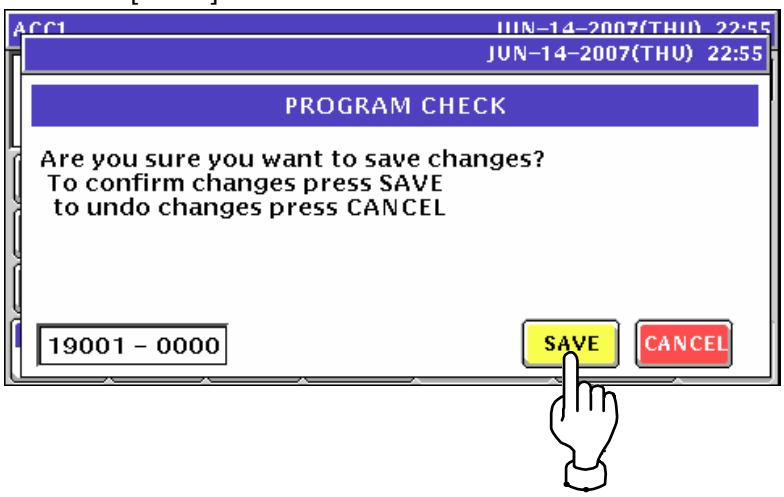
EXAMPLE “ACCUMULATION 1”

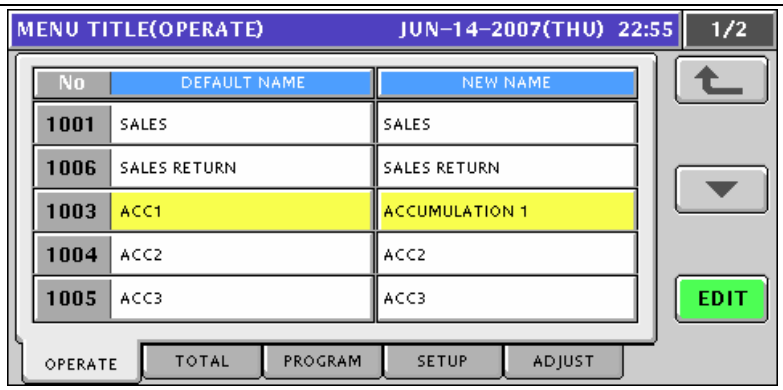


Press the [ESC] key on the key sheet.

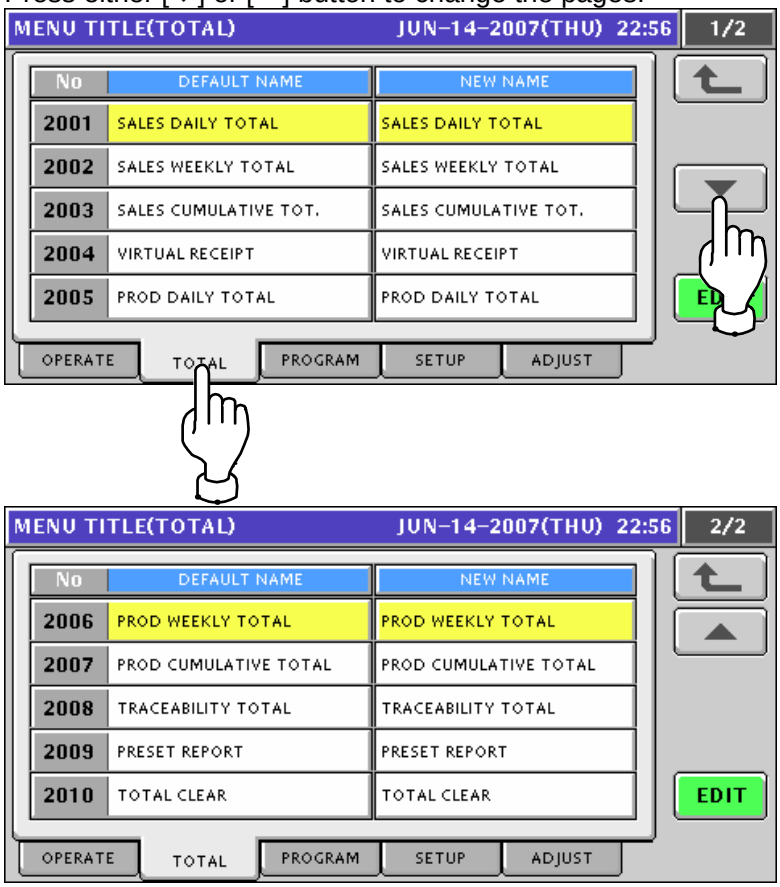


The following confirmation screen appears.
Press the [SAVE] button on the screen for confirmation.

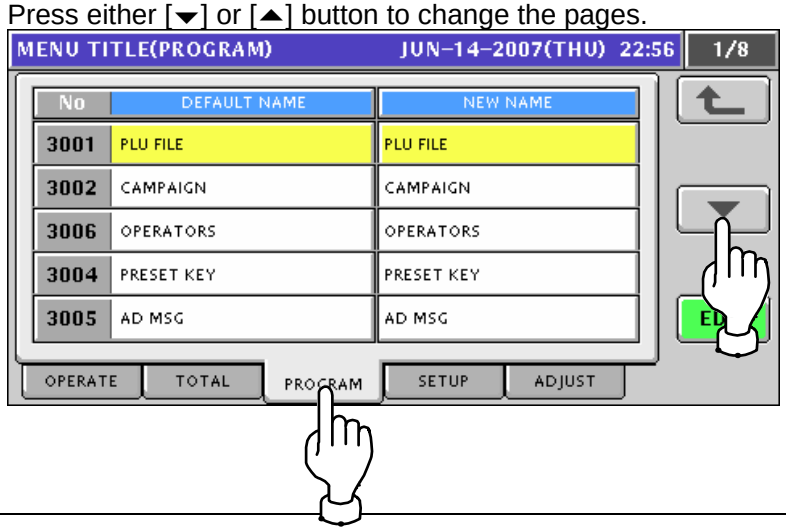


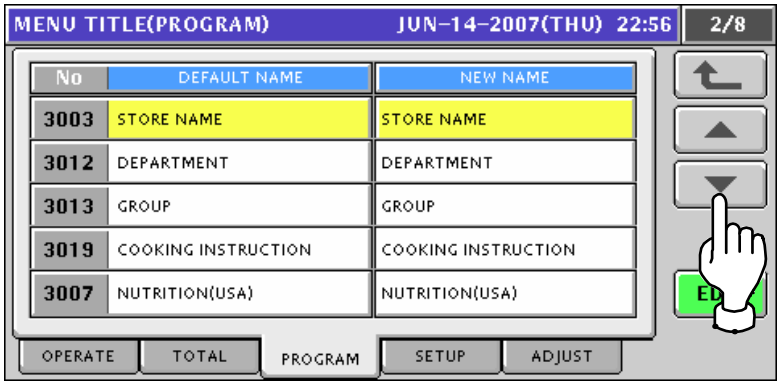


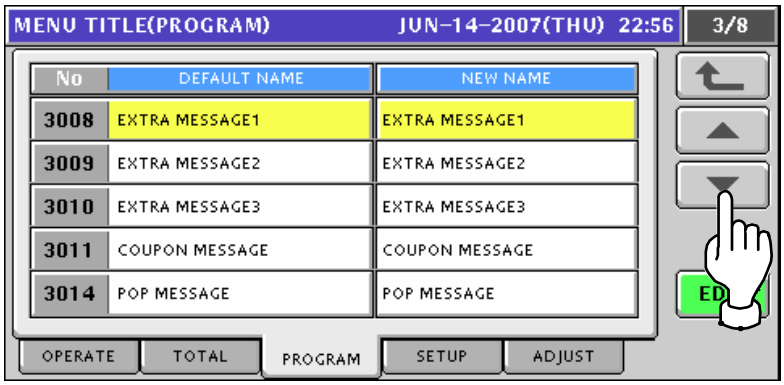
4 Press the [TOTAL] tab on the screen.
Press either [▼] or [▲] button to change the pages.

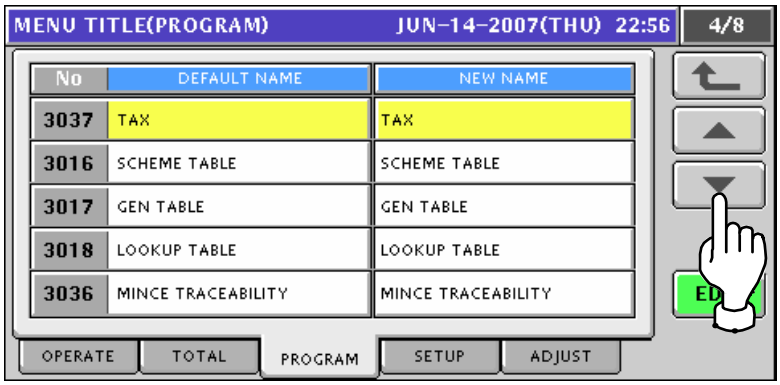


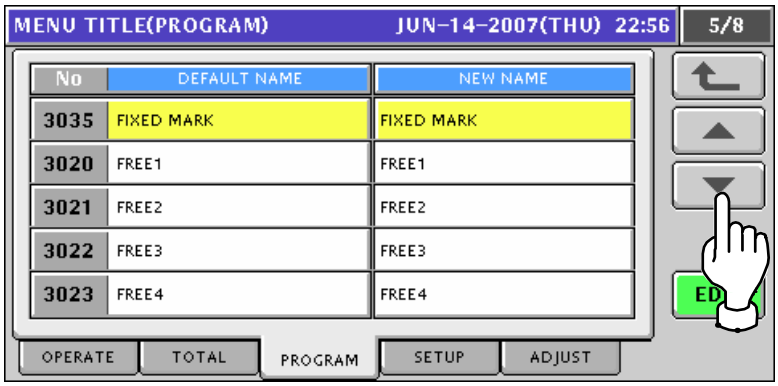
5. Press the [PROGRAM] tab on the screen.
Press either [▼] or [▲] button to change the pages.

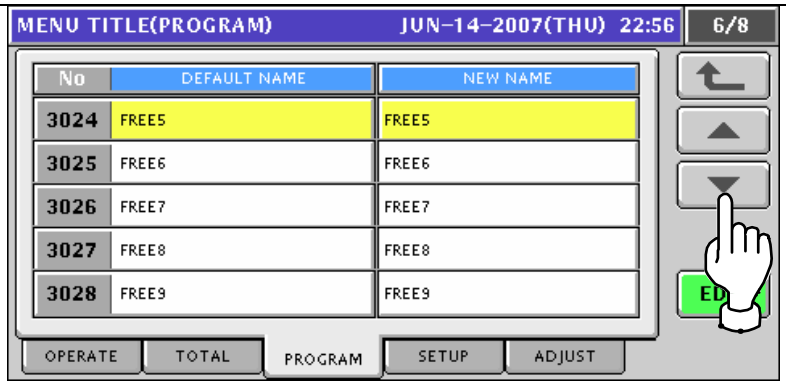


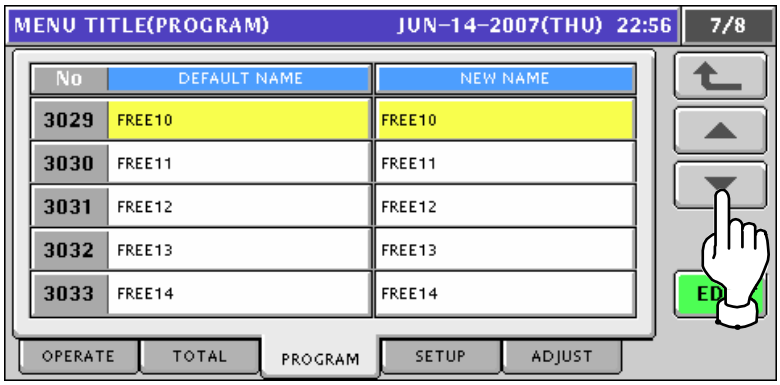

MENU TITLE(PROGRAM)
JUN-14-2007(THU) 22:56
2/8
No
DEFAULT NAME
NEW NAME
3003 STORE NAME STORE NAME
3012 DEPARTMENT DEPARTMENT
3013 GROUP GROUP
3019 COOKING INSTRUCTION COOKING INSTRUCTION
3007 NUTRITION(USA) NUTRITION(USA)
OPERATE
TOTAL
PROGRAM
SETUP
ADJUST

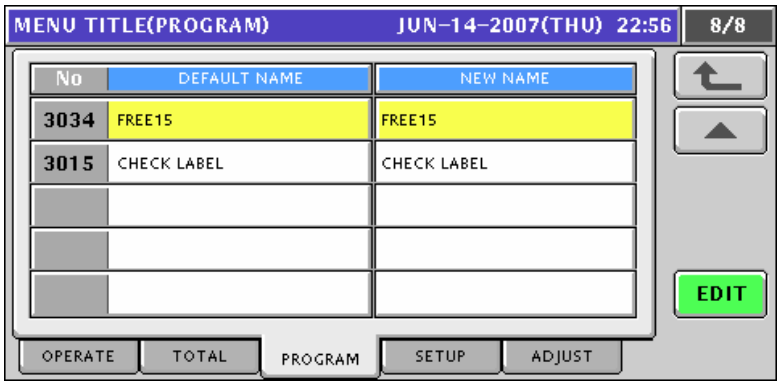

MENU TITLE(PROGRAM)
JUN-14-2007(THU) 22:56
3/8
No
DEFAULT NAME
NEW NAME
3008 EXTRA MESSAGE1 EXTRA MESSAGE1
3009 EXTRA MESSAGE2 EXTRA MESSAGE2
3010 EXTRA MESSAGE3 EXTRA MESSAGE3
3011 COUPON MESSAGE COUPON MESSAGE
3014 POP MESSAGE POP MESSAGE
OPERATE
TOTAL
PROGRAM
SETUP
ADJUST


MENU TITLE(PROGRAM)
JUN-14-2007(THU) 22:56
4/8
No
DEFAULT NAME
NEW NAME
3037 TAX TAX
3016 SCHEME TABLE SCHEME TABLE
3017 GEN TABLE GEN TABLE
3018 LOOKUP TABLE LOOKUP TABLE
3036 MINCE TRACEABILITY MINCE TRACEABILITY
OPERATE
TOTAL
PROGRAM
SETUP
ADJUST

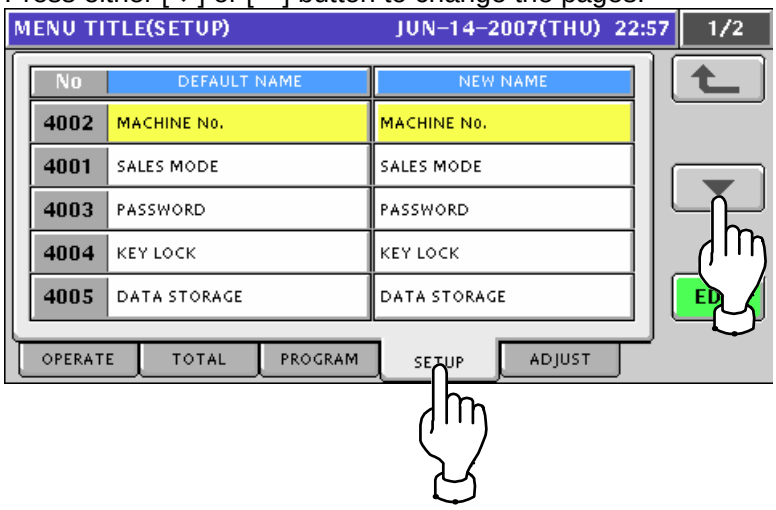

MENU TITLE(PROGRAM)
JUN-14-2007(THU) 22:56
5/8
No
DEFAULT NAME
NEW NAME
3035 FIXED MARK FIXED MARK
3020 FREE1 FREE1
3021 FREE2 FREE2
3022 FREE3 FREE3
3023 FREE4 FREE4
OPERATE
TOTAL
PROGRAM
SETUP
ADJUST

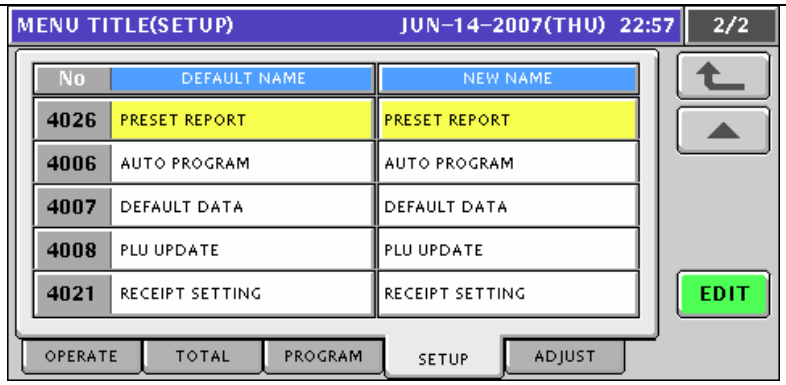




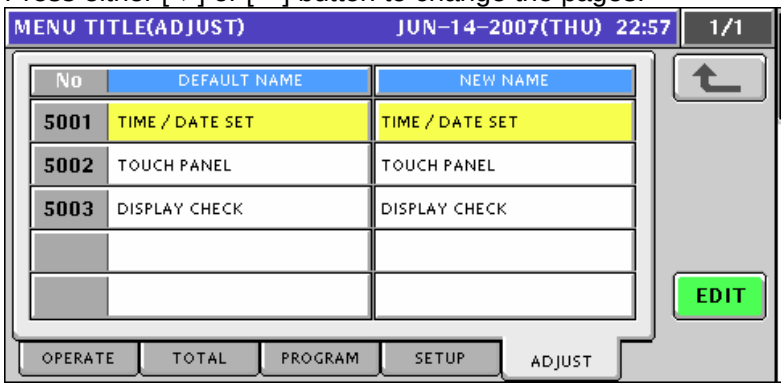


6. Press the [SETUP] tab on the screen.
Press either [▼] or [▲] button to change the pages.





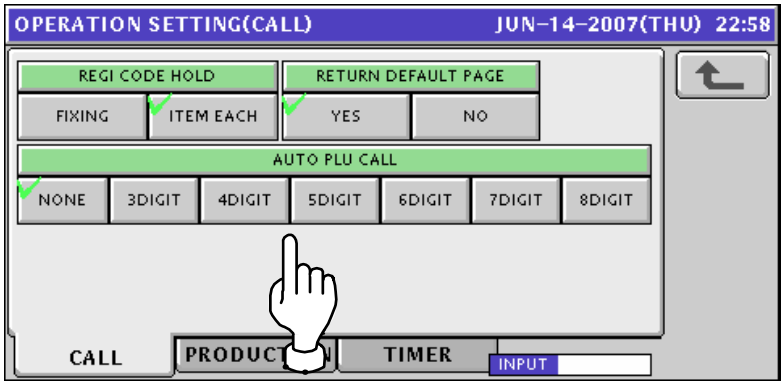
7. Press the [ADJUST] tab on the screen.
Press either [▼] or [▲] button to change the pages.



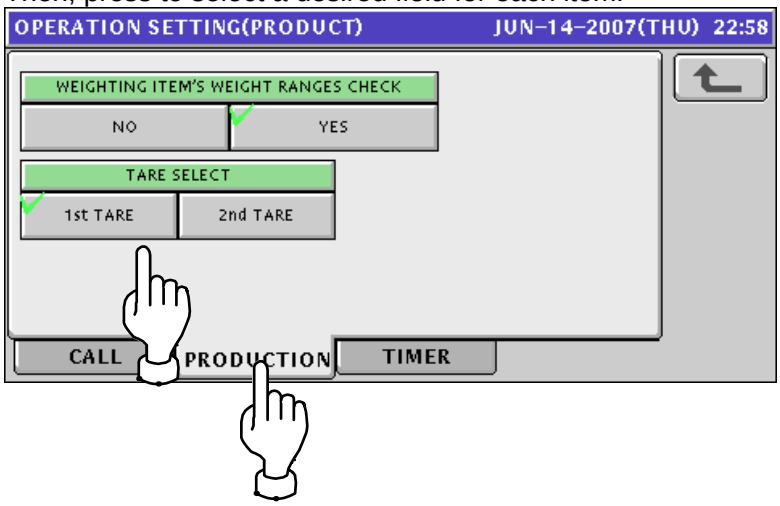
7.7 OPERATION SETTING

1. Press the “MENU EDIT” field on the screen.

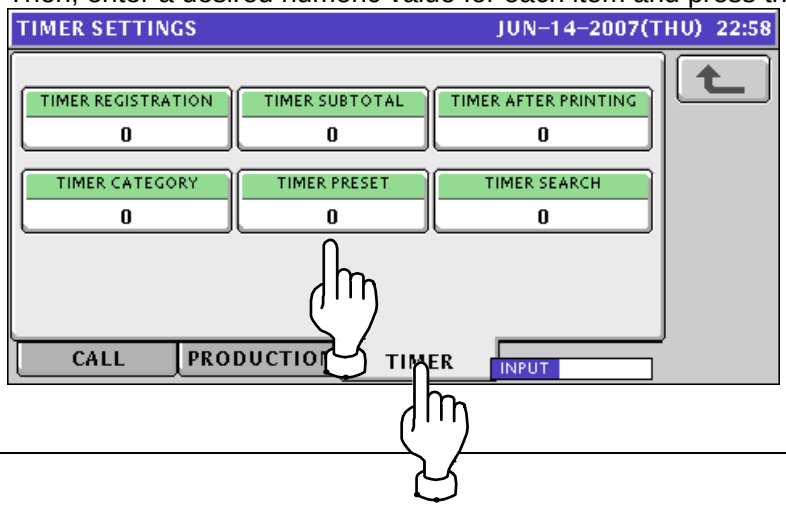
2. The Operation Setting (Call) screen appears.
Then, press to select a desired field for each item.



3. Press the [PRODUCTION] tab on the screen.
The Operation Setting (Product) screen appears.
Then, press to select a desired field for each item.



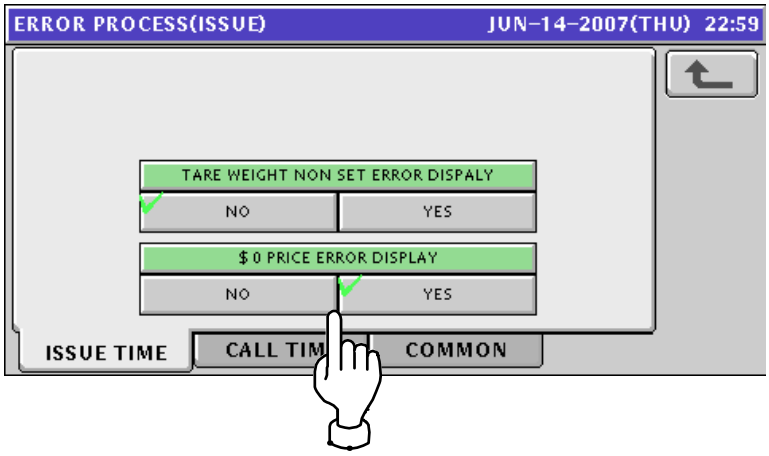
4. Press the [TIMER] tab on the screen.
The Timer Setting screen appears.
Then, enter a desired numeric value for each item and press the corresponding field.



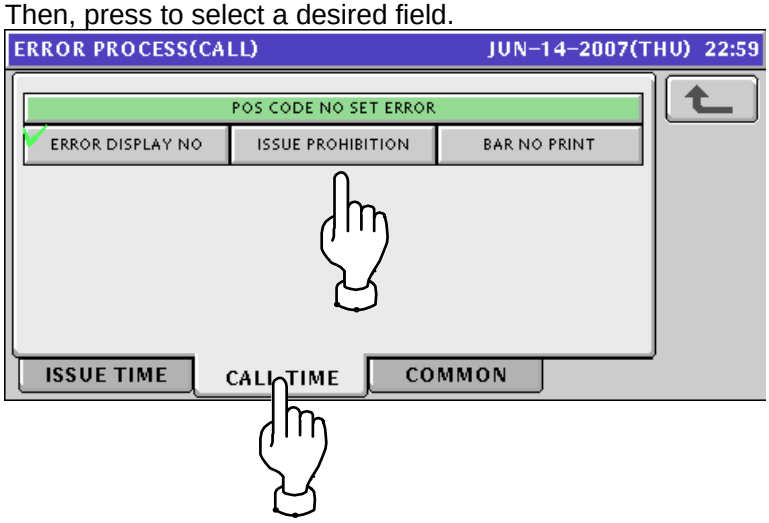
7.8 ERROR PROCESS SETTING

1. Press the “ERROR PROCESS” field on the screen.

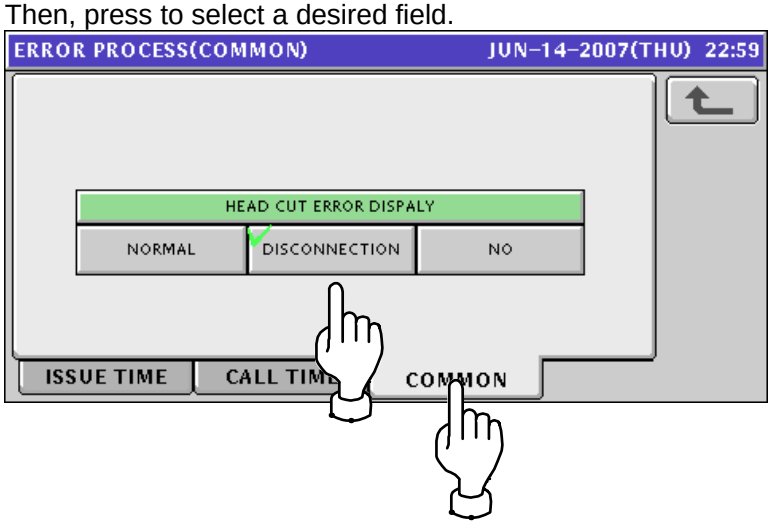
2. The Error Process (Issue) screen appears.
Press to select a desired field for each item.



3. Press the “CALL TIME” tab to display the Error Process (Call) screen.
Then, press to select a desired field.



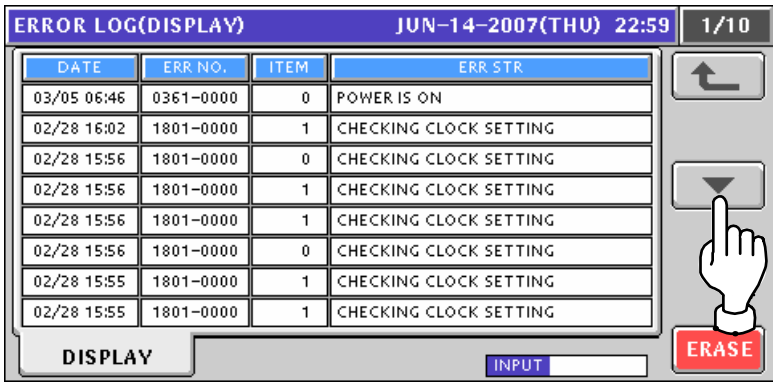
4. Select the “COMMON” tab to display the Error Process (Common) screen. Then, press to select a desired field.

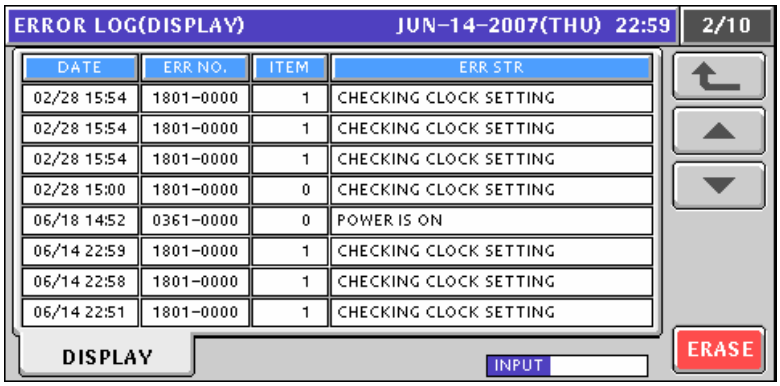


7.9 ERROR LOG DISPLAY

1. Press the “ERROR LOG” field on the screen.

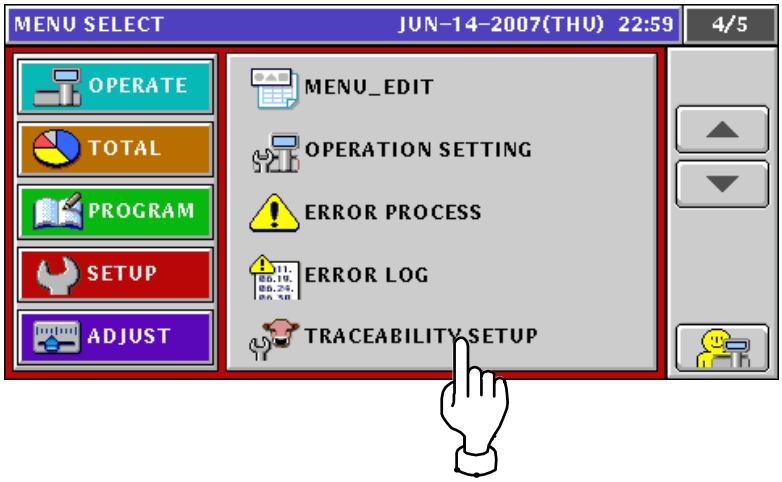
2. The Error Log (Display) screen appears.
Press the [▼] or [▲] button when changing the pages.



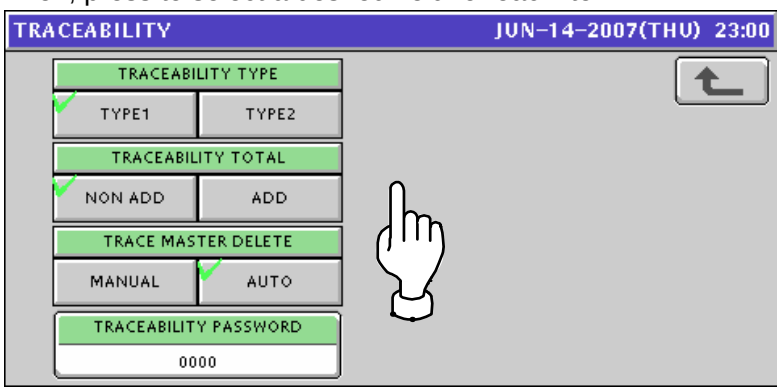


7.10 TRACEABILITY SETTING

1. Press the “TRACEABILTY SETUP” field on the screen.



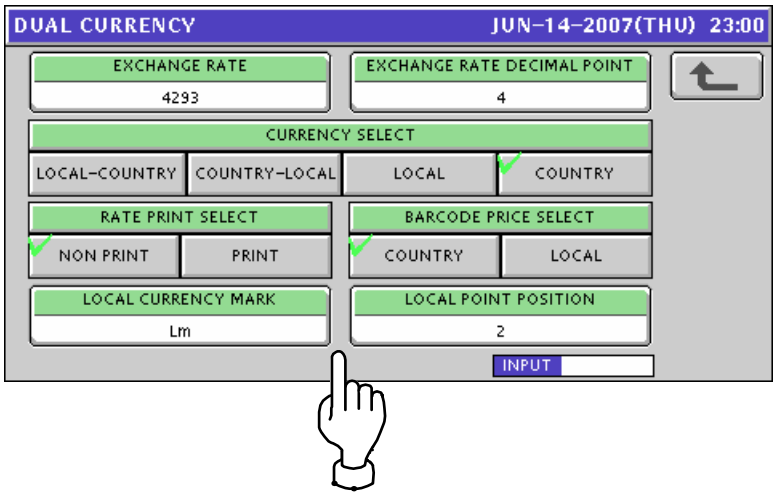
2. The Traceability screen appears.
Then, press to select a desired field for each item.



7.11 DUAL CURRENCY SETTING

1. Press the “DUAL CURRENCY” field on the screen.

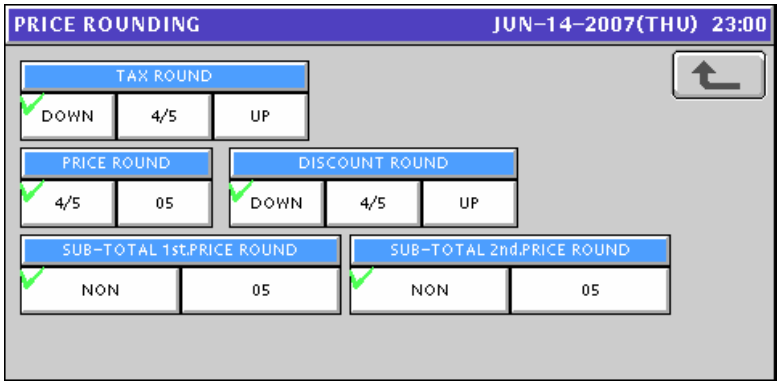
2. The Dual Currency screen appears.
Then, enter a desired numeric value for each input item, and press to select a desired field for each selection item



7.12 PRICE DOUNDING SETTING

1. Press the “PRICE ROUNDING” field on the screen.

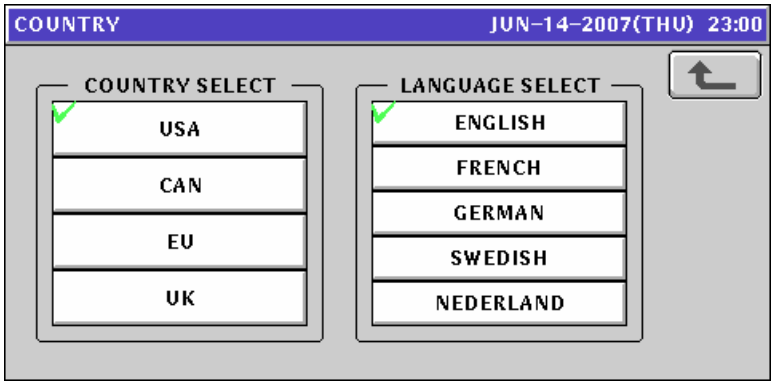
2. The Price Rounding screen appears.
Then, press to select a desired field for each item



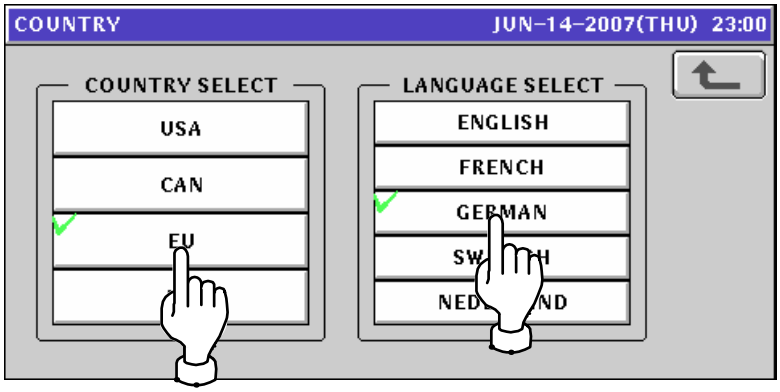
7.12 COUNTRY SETTING

1. Press the “COUNTRY” field on the screen.

2. The Country screen appears.

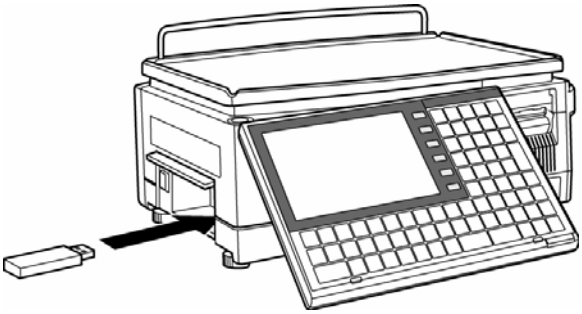


Then, press to select a desired country and language.

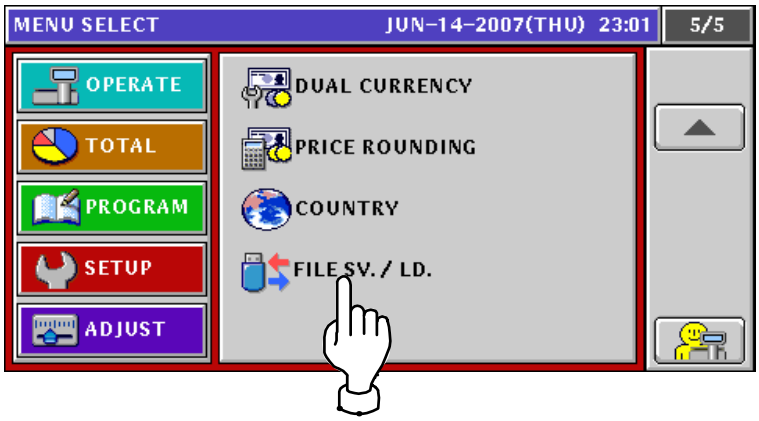


7.13 FILE SAVE / LOAD

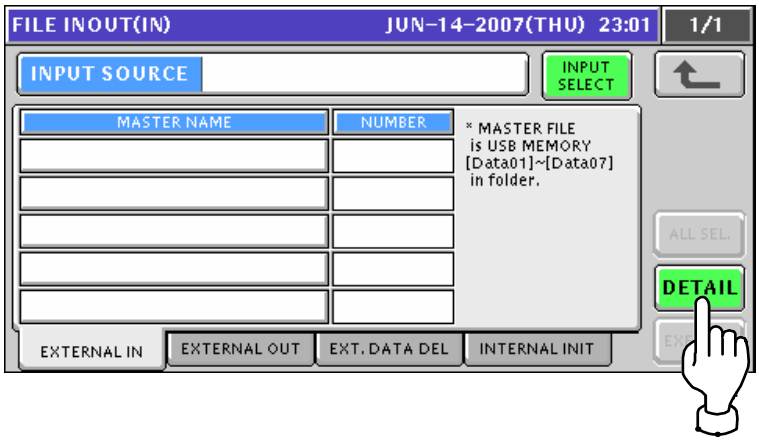
Before saving or loading the main memory data to or from the USB memory, make sure that the USB memory is inserted into the USB port located in the connector cover of he main body..



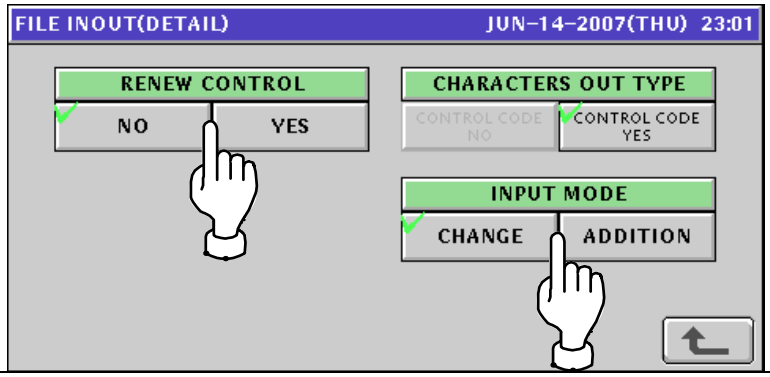
1. Press the “FILE SV./ LD.” field on the screen.



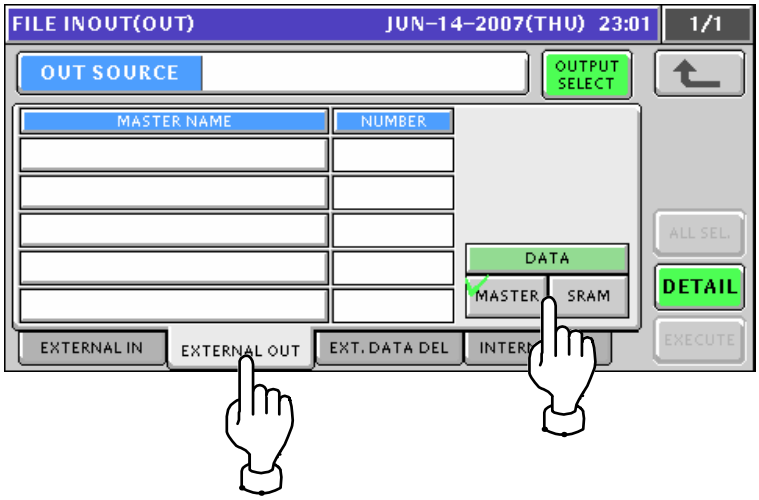
2. The External File Input screen appears for loading the USB memory data to the main memory. To display the File InOut (Detail) screen, press the [DETAIL] button.



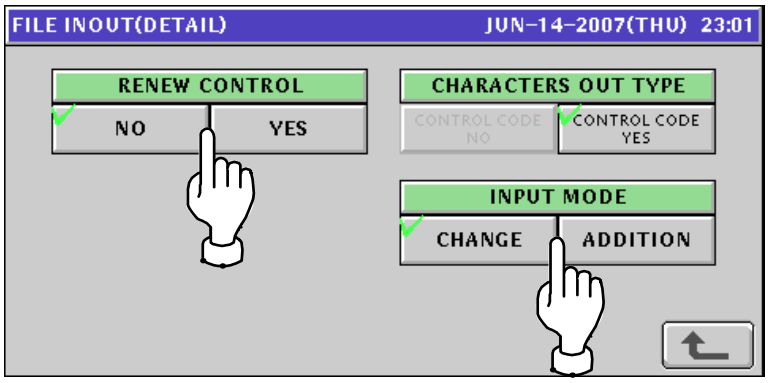
Press to select a desired field for each item.



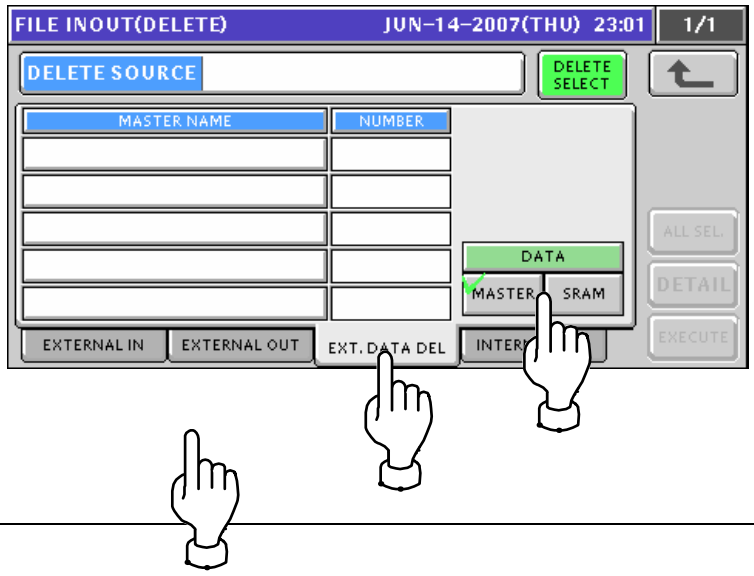
3. Press the “EXTERNAL OUT” tab to display the External File Output screen for loading the main memory data to the USB memory.
Be sure to press to select a desired data type in the “DATA” field.



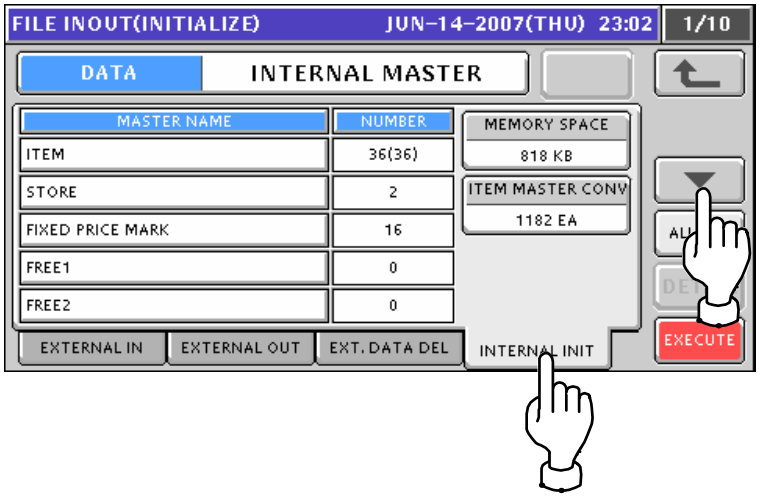
Press to select a desired field for each item.

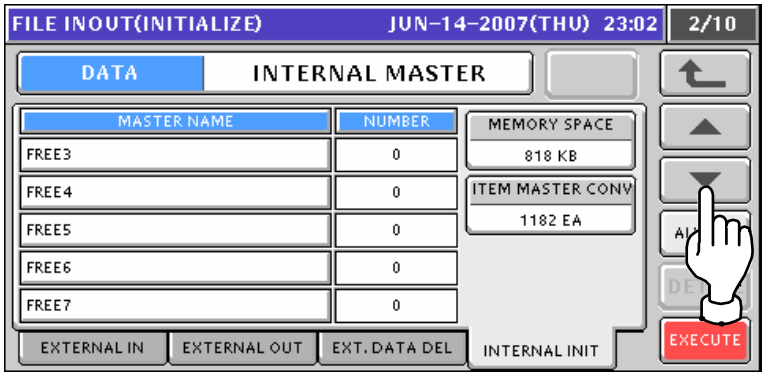


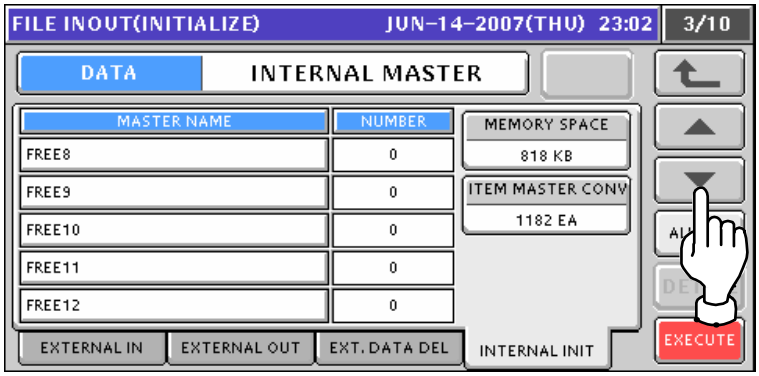
4. Press the “EXT. DATA DEL” tab to display the external data delete screen
Be sure to press to select a desired data type in the “DATA” field.

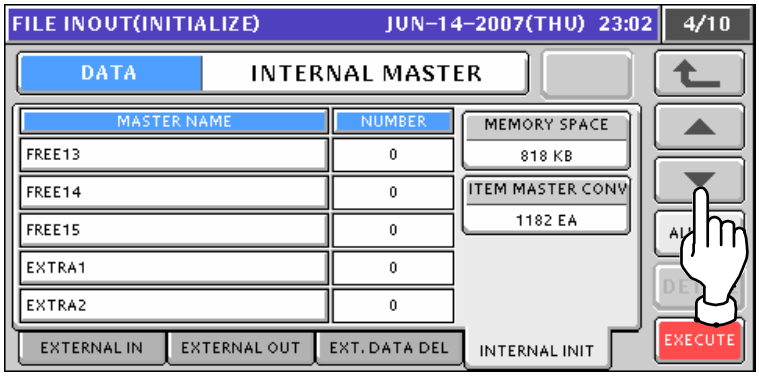


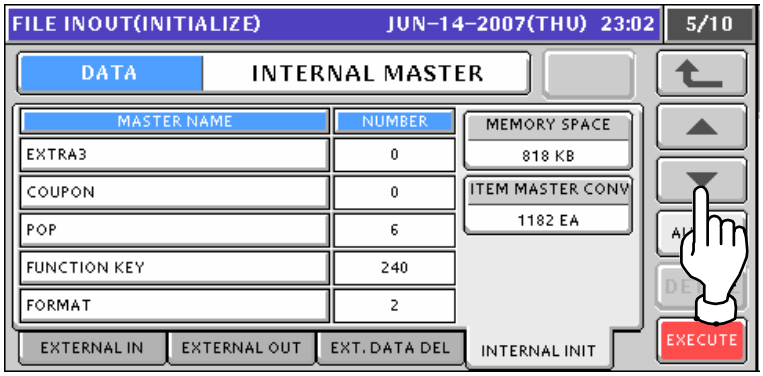
5. Press the “INTERNAL INIT” tab to display the data initialization screen.
Press the [▼] or [▲] button when changing the pages.

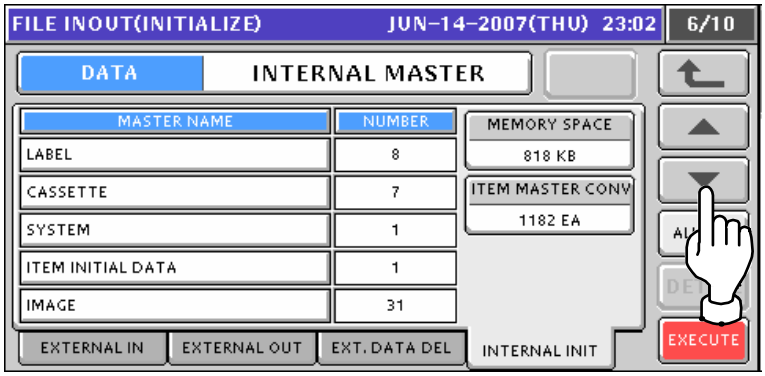


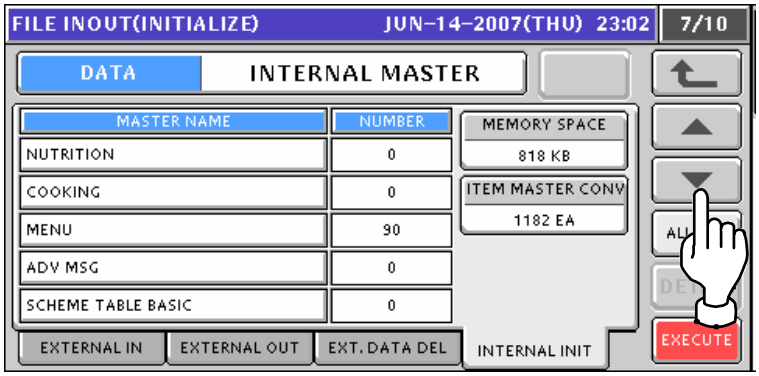


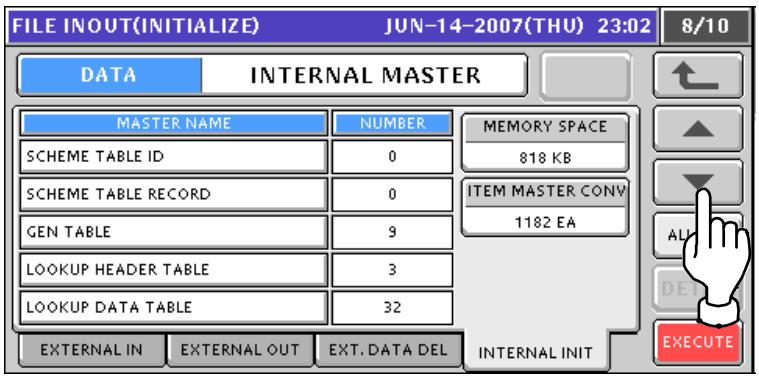


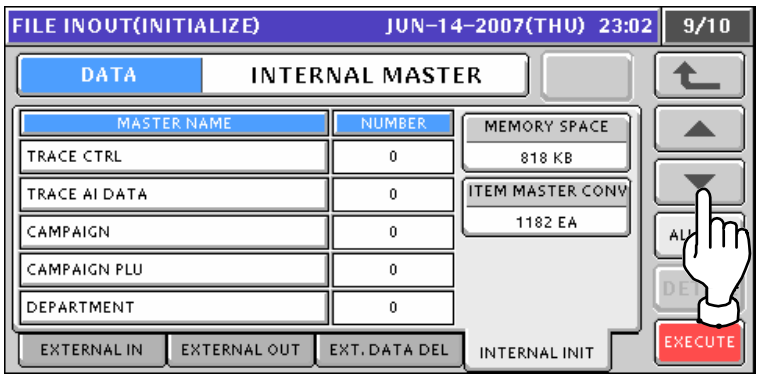


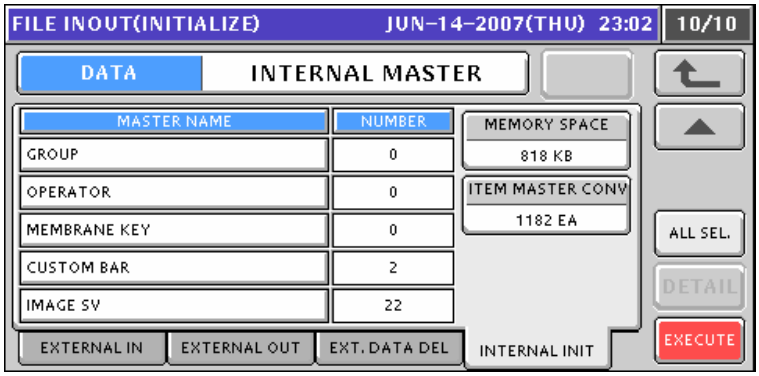

FILE INOUT(INITIALIZE)
JUN-14-2007(THU) 23:02
5/10
DATA
INTERNAL MASTER
MASTER NAME
NUMBER
EXTRA3 0
COUPON 0
POP 6
FUNCTION KEY 240
FORMAT 2
MEMORY SPACE
818 KB
ITEM MASTER CONV
1182 EA
EXTERNAL IN
EXTERNAL OUT
EXT. DATA DEL
INTERNAL INIT
EXECUTE


FILE INOUT(INITIALIZE)
JUN-14-2007(THU) 23:02
6/10
DATA
INTERNAL MASTER
MASTER NAME
NUMBER
LABEL 8
CASSETTE 7
SYSTEM 1
ITEM INITIAL DATA 1
IMAGE 31
MEMORY SPACE
818 KB
ITEM MASTER CONV
1182 EA
EXTERNAL IN
EXTERNAL OUT
EXT. DATA DEL
INTERNAL INIT
EXECUTE

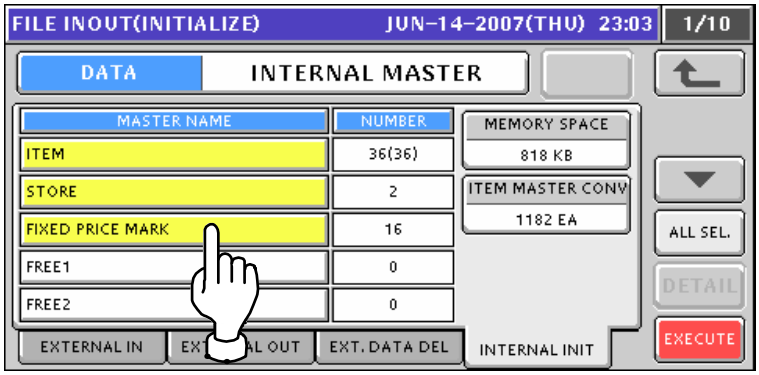

FILE INOUT(INITIALIZE)
JUN-14-2007(THU) 23:02
7/10
DATA
INTERNAL MASTER
MASTER NAME
NUMBER
NUTRITION 0
COOKING 0
MENU 90
ADV MSG 0
SCHEME TABLE BASIC 0
MEMORY SPACE
818 KB
ITEM MASTER CONV
1182 EA
EXTERNAL IN
EXTERNAL OUT
EXT. DATA DEL
INTERNAL INIT
EXECUTE


FILE INOUT(INITIALIZE)
JUN-14-2007(THU) 23:02
8/10
DATA
INTERNAL MASTER
MASTER NAME
NUMBER
SCHEME TABLE ID 0
SCHEME TABLE RECORD 0
GEN TABLE 9
LOOKUP HEADER TABLE 3
LOOKUP DATA TABLE 32
MEMORY SPACE
818 KB
ITEM MASTER CONV
1182 EA
EXTERNAL IN
EXTERNAL OUT
EXT. DATA DEL
INTERNAL INIT
EXECUTE

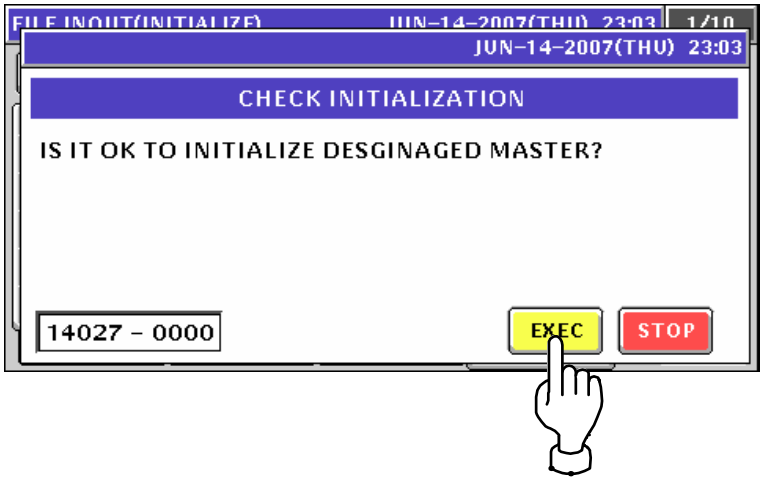

FILE INOUT(INITIALIZE)
JUN-14-2007(THU) 23:02
9/10
DATA
INTERNAL MASTER
MASTER NAME
NUMBER
TRACE CTRL 0
TRACE AI DATA 0
CAMPAIGN 0
CAMPAIGN PLU 0
DEPARTMENT 0
MEMORY SPACE
818 KB
ITEM MASTER CONV
1182 EA
EXTERNAL IN
EXTERNAL OUT
EXT. DATA DEL
INTERNAL INIT
EXECUTE



6. Press to select desired files for initialization, and press the [EXECUTE] button.



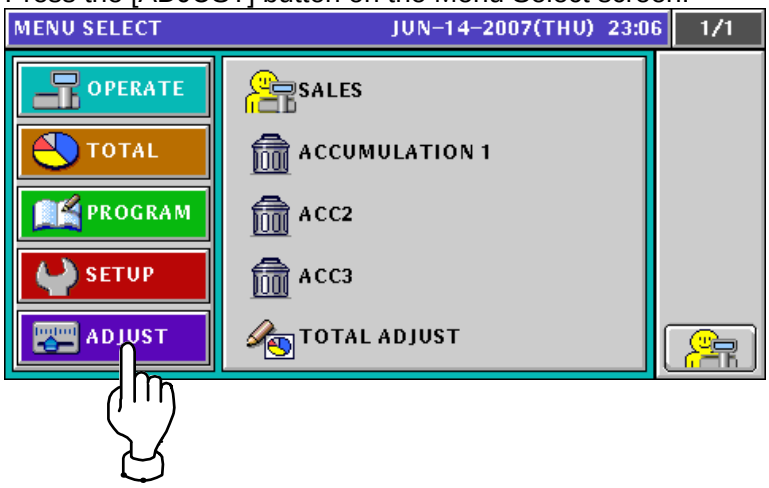
7. The following confirmation screen appears.
Then, press the [EXEC] button to execute file initialization.



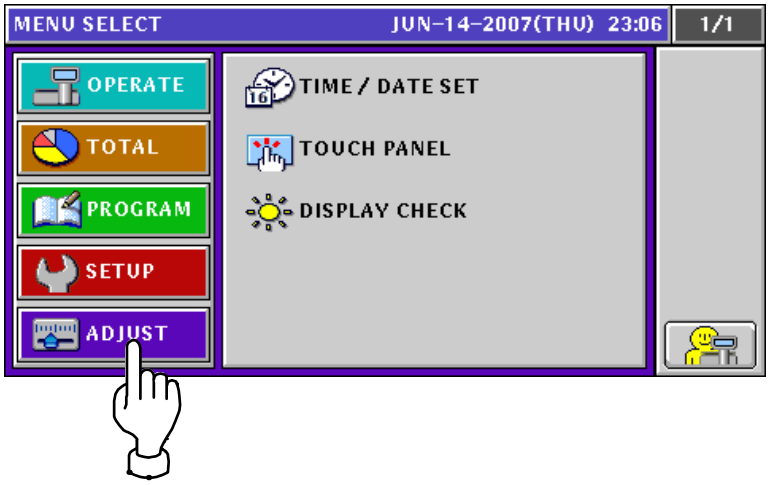
8 ADJUSTMENT MODE

8.1 ADJUSTMENT MODE ENTRY

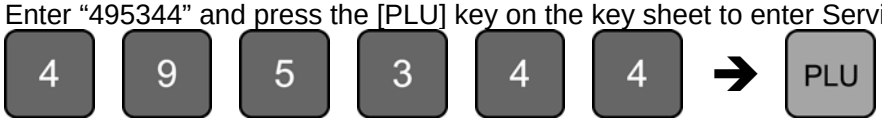
1. Press the [ADJUST] button on the Menu Select screen.



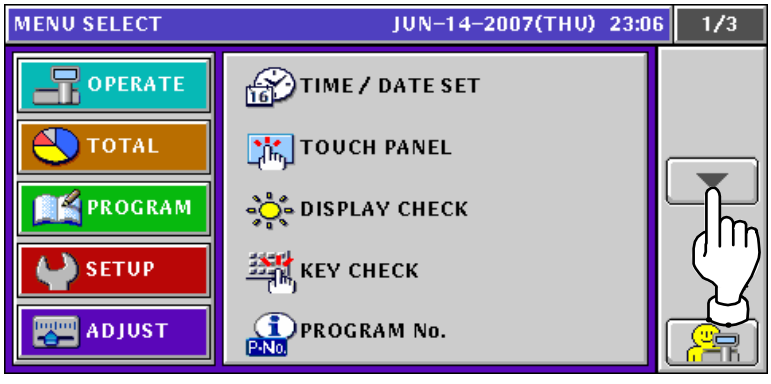
2. The Adjustment Menu screen appears.

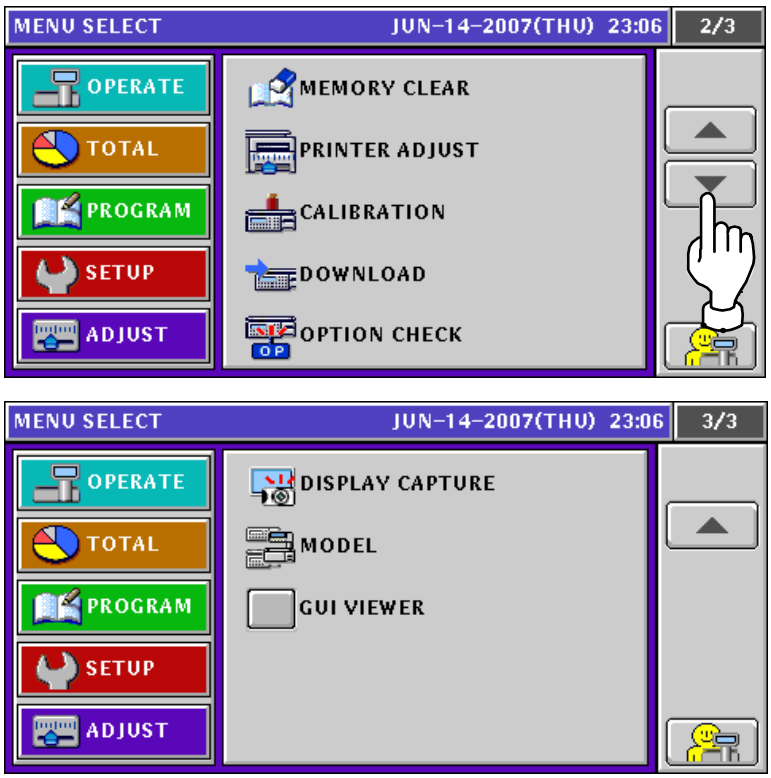


3. Enter “495344” and press the [PLU] key on the key sheet to enter Service Mode.



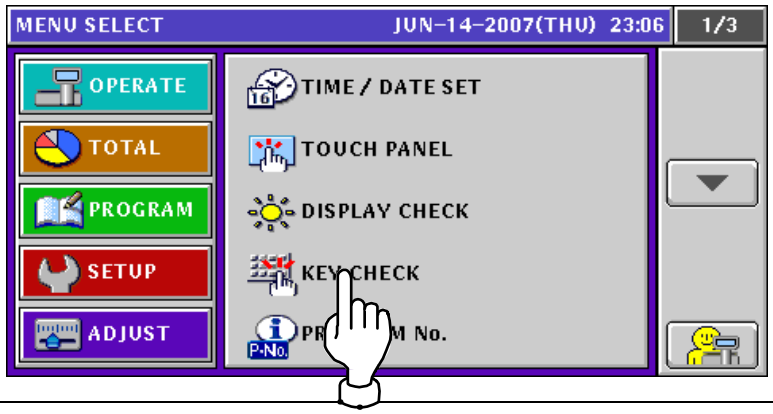
Hidden menus come up on the screen.
Press the [▼] or [▲] button when changing the pages.



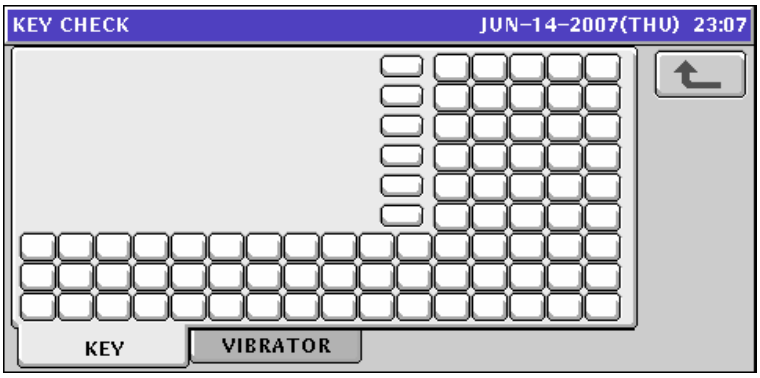

MENU SELECT
JUN-14-2007(THU) 23:06
2/3
OPERATE
TOTAL
PROGRAM
SETUP
ADJUST
MEMORY CLEAR
PRINTER ADJUST
CALIBRATION
DOWNLOAD
OPTION CHECK
OP
MENU SELECT
JUN-14-2007(THU) 23:06
3/3
OPERATE
TOTAL
PROGRAM
SETUP
ADJUST
DISPLAY CAPTURE
MODEL
GUI VIEWER

8.2 KEY CHECK

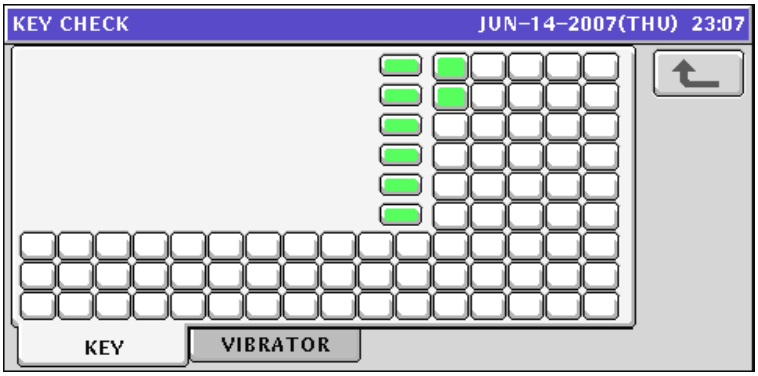
1. Press the “KEY CHECK” field on the screen.



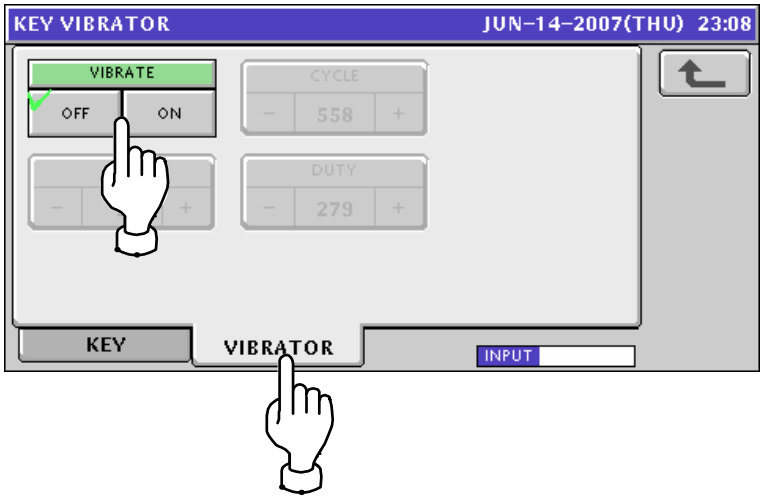
2. The Key check screen appears.



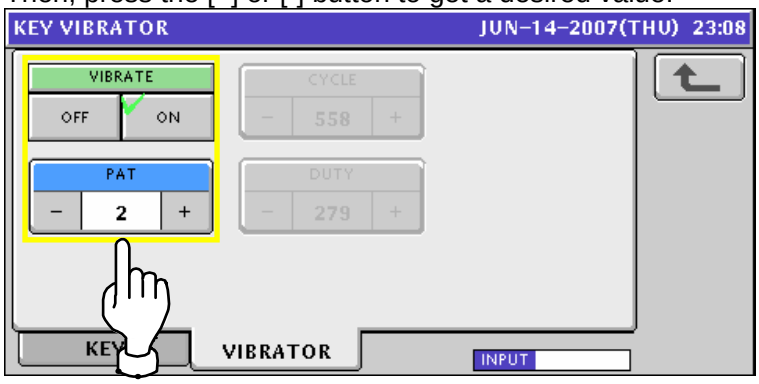
Press any keys on the membrane key sheet and confirm that the corresponding key colors on the screen change into green.



3. Press the “VIBRATOR” tab to display the Key Vibrator screen.

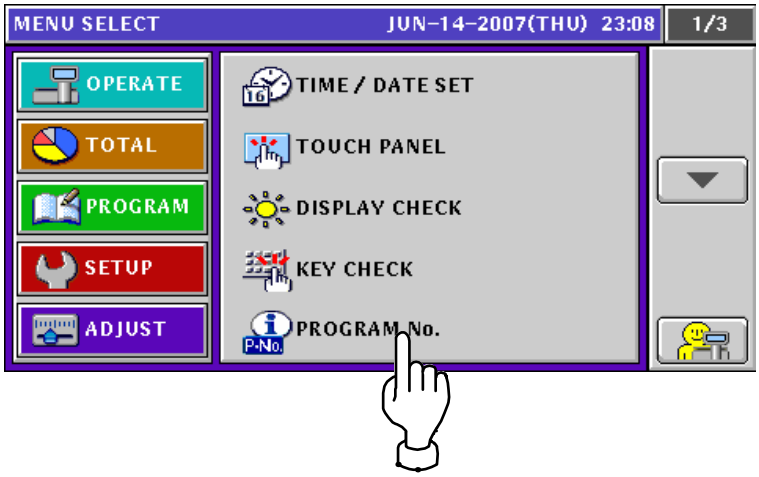


Press to select whether or not to enable the vibration function.
Then, press the [+] or [-] button to get a desired value.

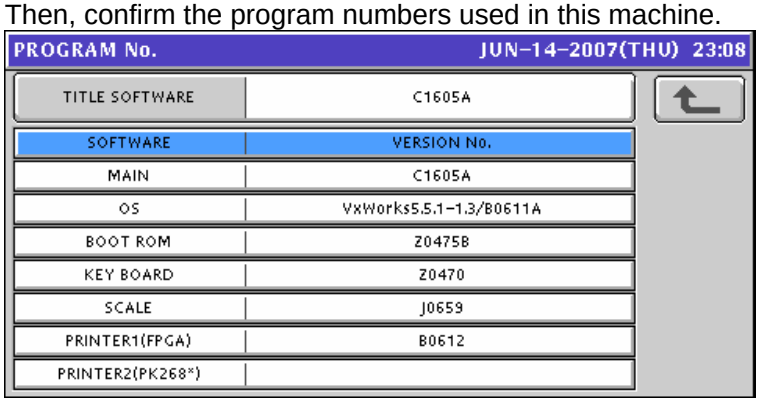


8.3 PROGRAM NUMBER

1. Press the “PROGRAM No.” field on the screen.

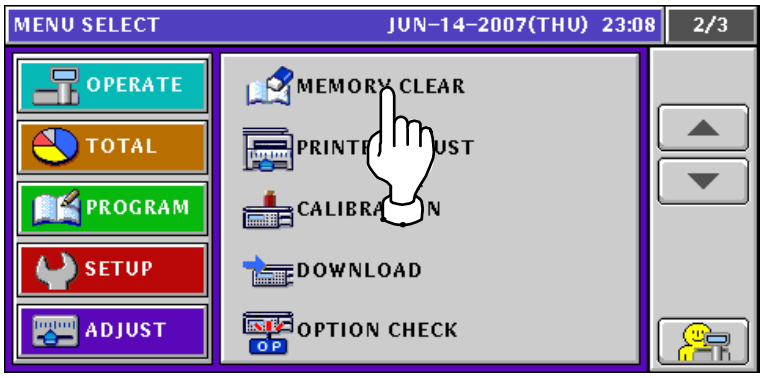


2. The Program Number screen appears.
Then, confirm the program numbers used in this machine.

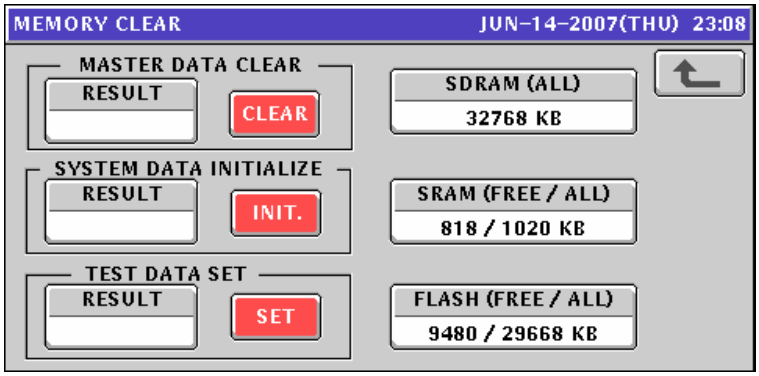


8.4 MEMORY CLEAR

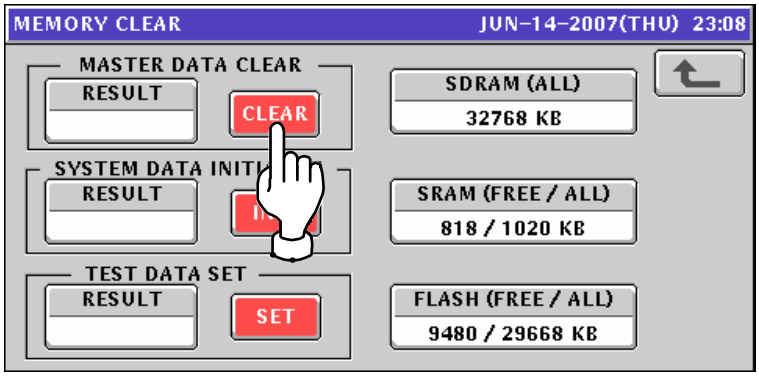
1. Press the “MEMORY CLEAR” field on the screen.



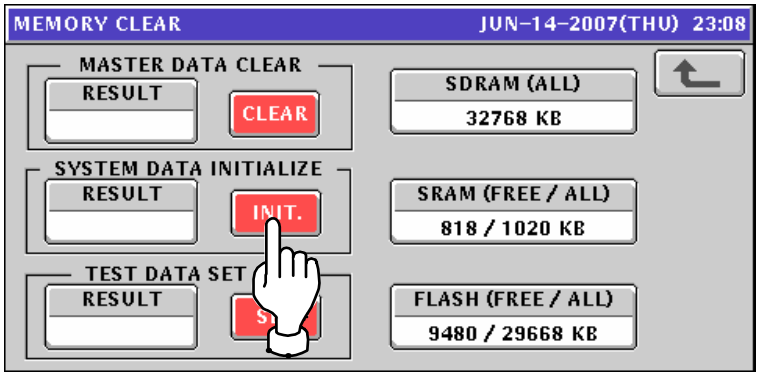
2. The Memory Clear screen appears.



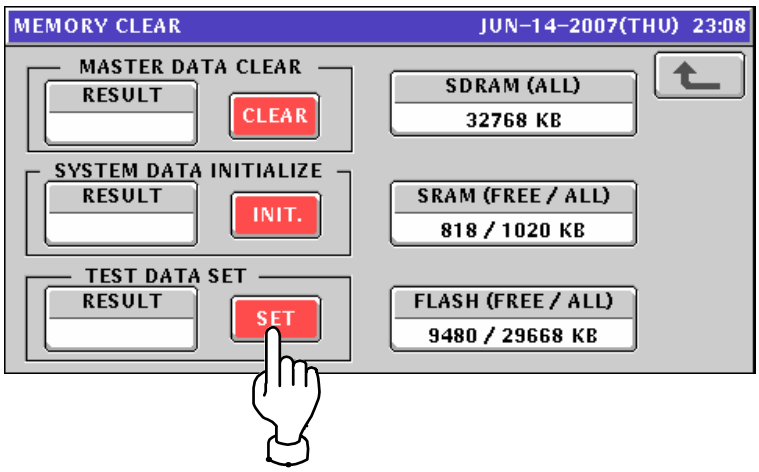
3. To clear the master data, press the [CLEAR] button.



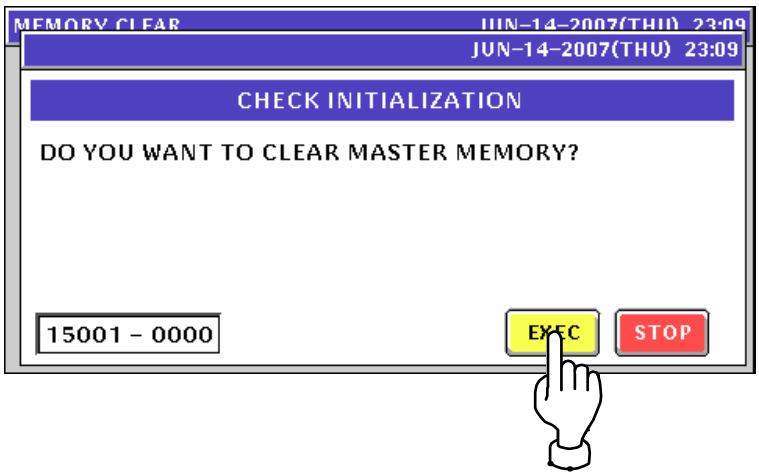
4. To initialize the system data, press the [INIT.] button.



5. To set the test data, press the [SET] button.

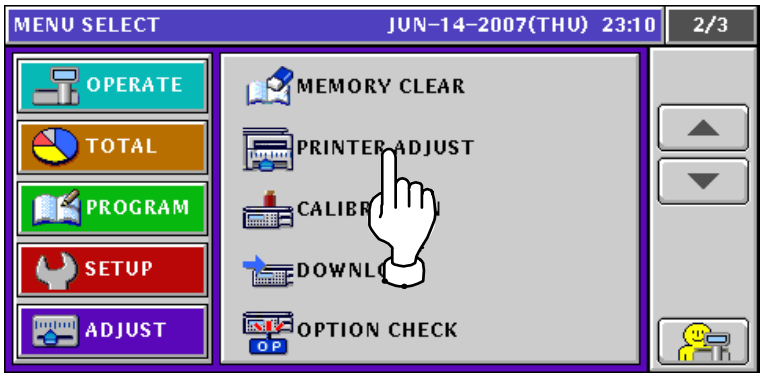


6. The following confirmation screen appears.
Then, press the [EXEC] button for execution.

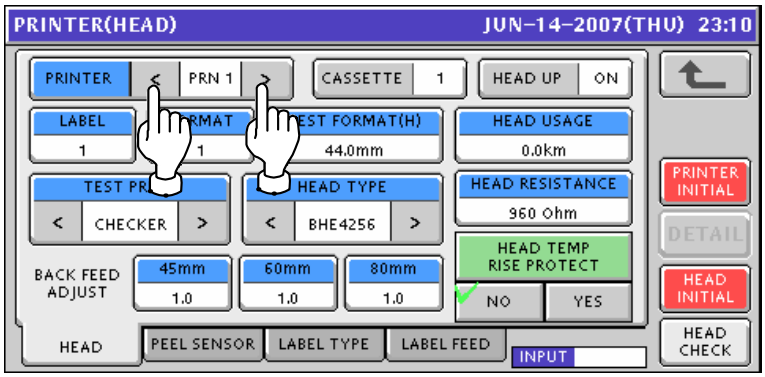


8.5 PRINTER ADJUSTMENT

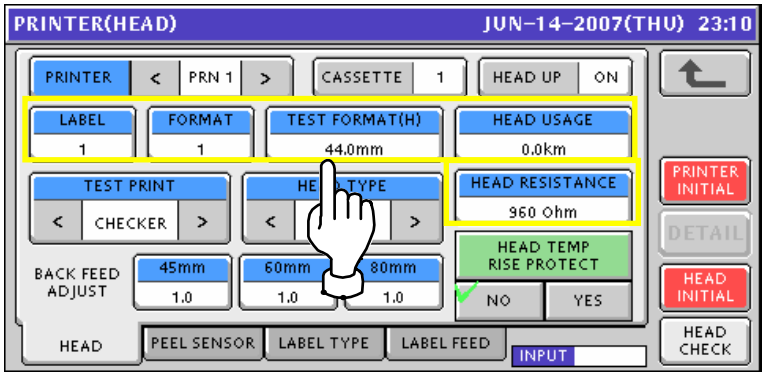
1. Press the “PRINTER ADJUST” field on the screen.



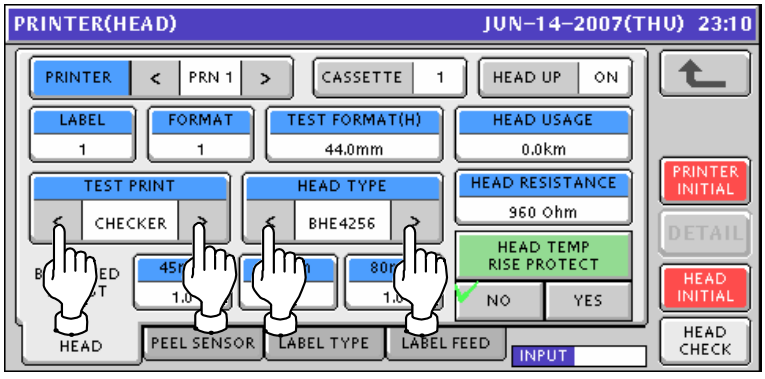
2. The Printer (Head) screen appears.
Then, select a desired printer by using either [<] or [>] button.



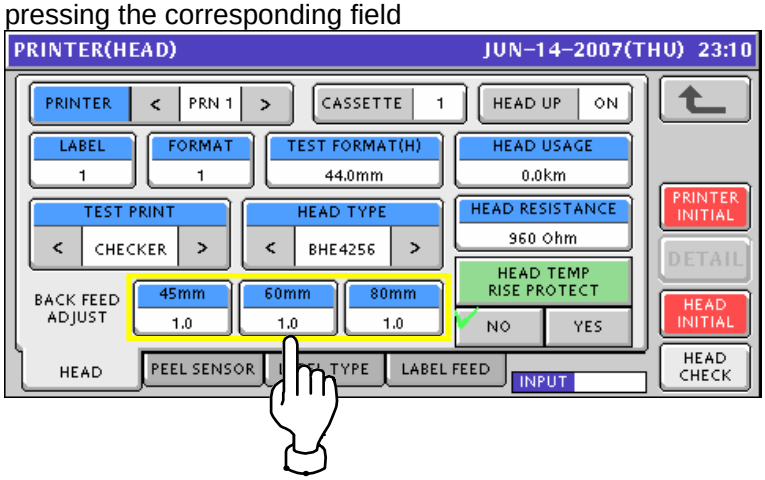
Enter a desired numeric value for each item and press the corresponding field.



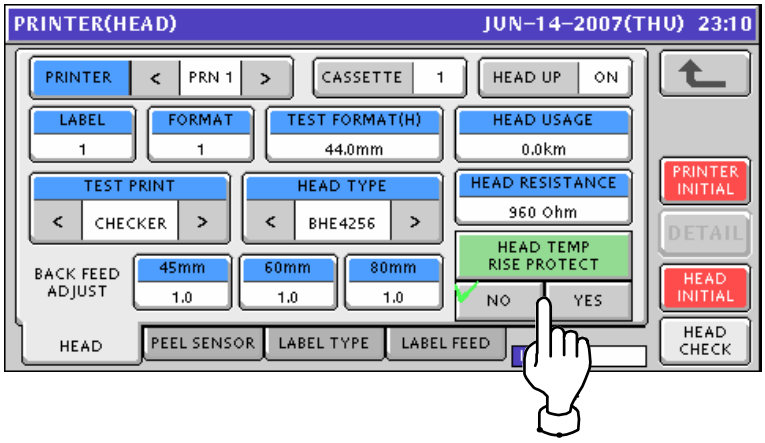
Select a desired test print type and head type by using either [<] or [>] button.



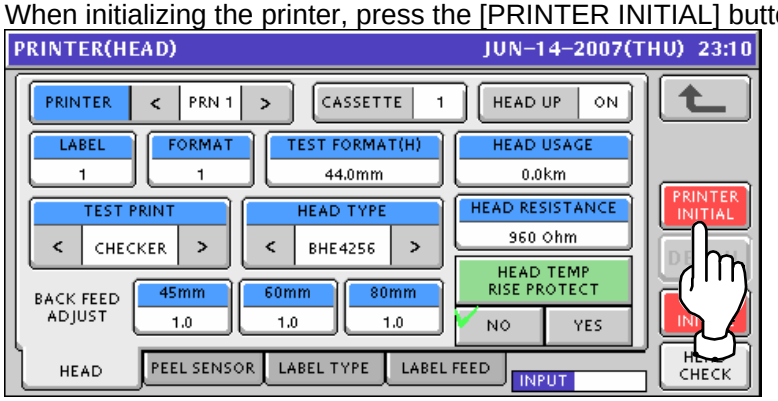
Perform back feed adjustment by entering a desired numeric value for each item and pressing the corresponding field



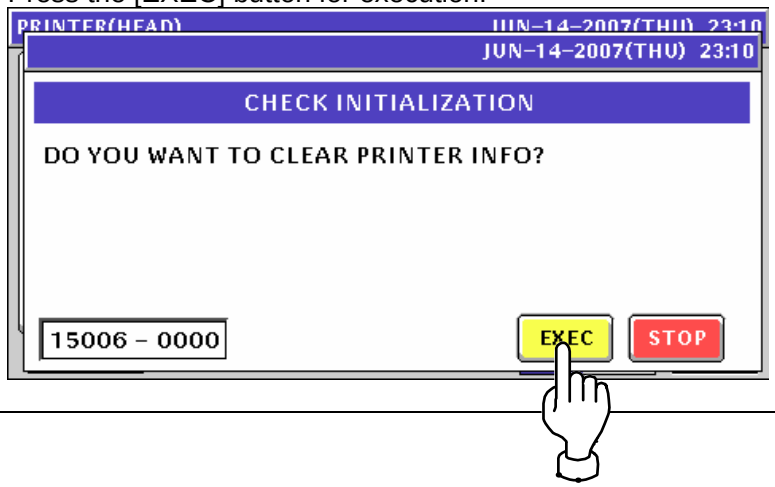
Press a desired field to select whether or not to use the head temperature rise protect function.



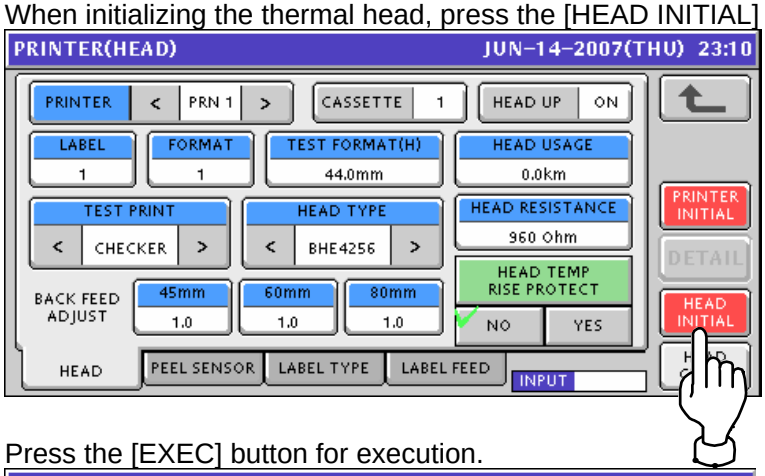
3. When initializing the printer, press the [PRINTER INITIAL] button.



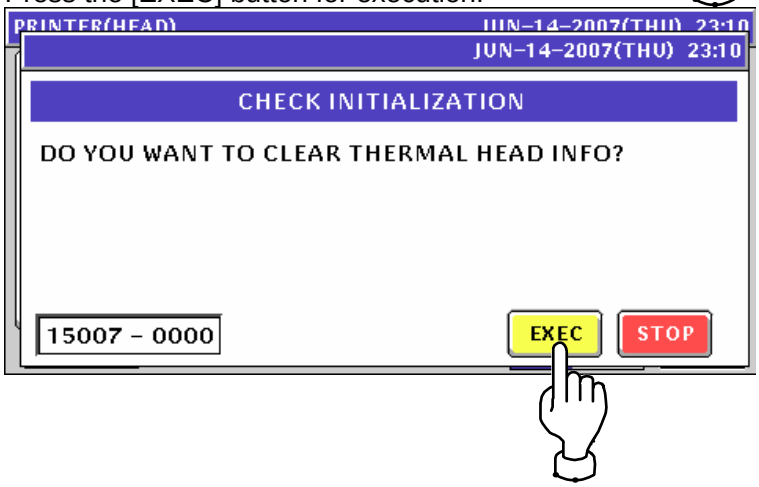
Press the [EXEC] button for execution.



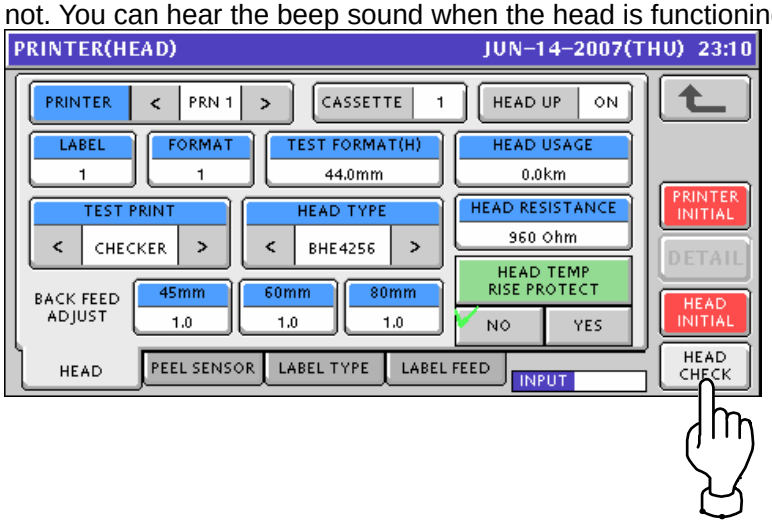
4. When initializing the thermal head, press the [HEAD INITIAL] button.



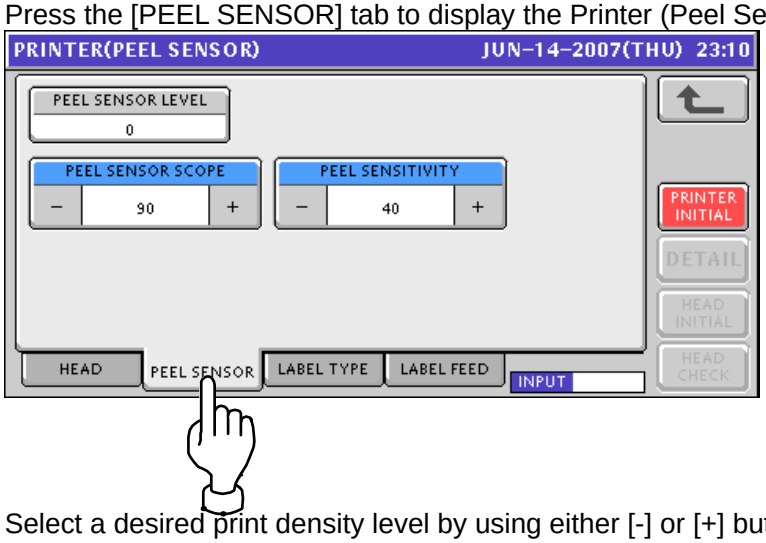
Press the [EXEC] button for execution.



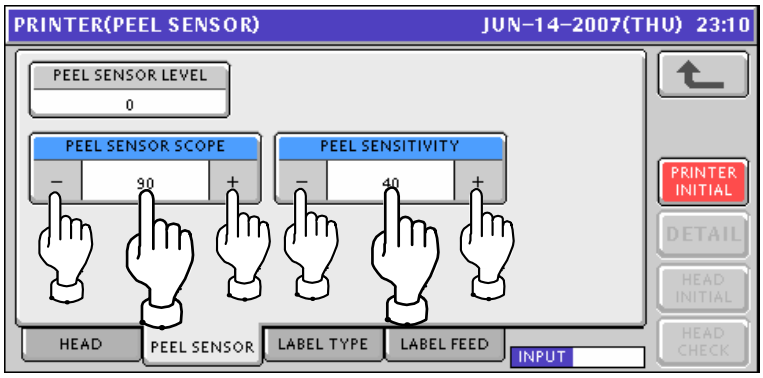
Press the [HEAD CHECK] button to check whether the thermal head functions properly or not. You can hear the beep sound when the head is functioning properly.



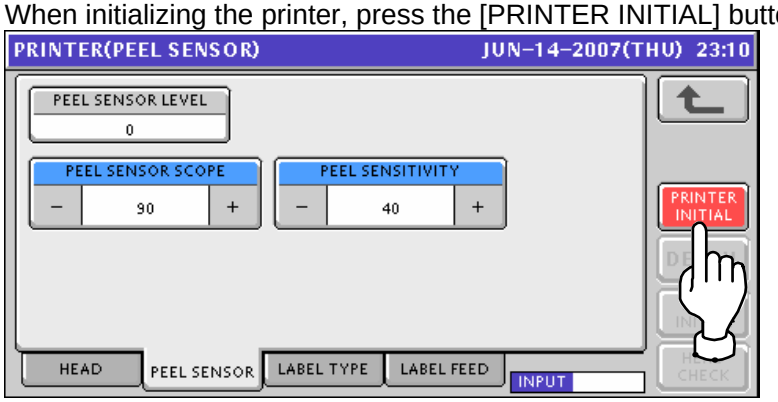
5. Press the [PEEL SENSOR] tab to display the Printer (Peel Sensor) screen.



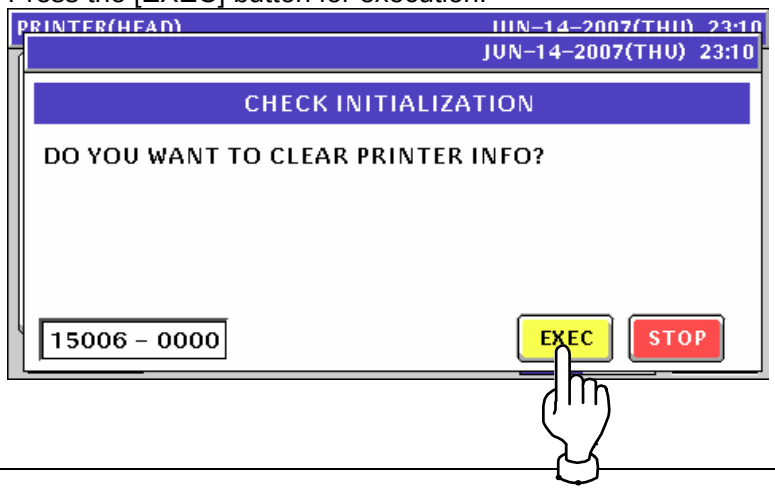
Select a desired print density level by using either [-] or [+] button, or, pressing the corresponding field after numeric data entry.



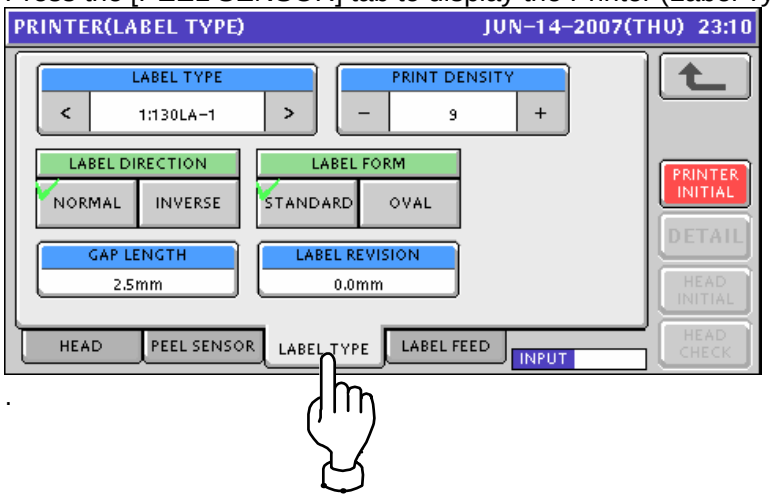
When initializing the printer, press the [PRINTER INITIAL] button.



Press the [EXEC] button for execution.



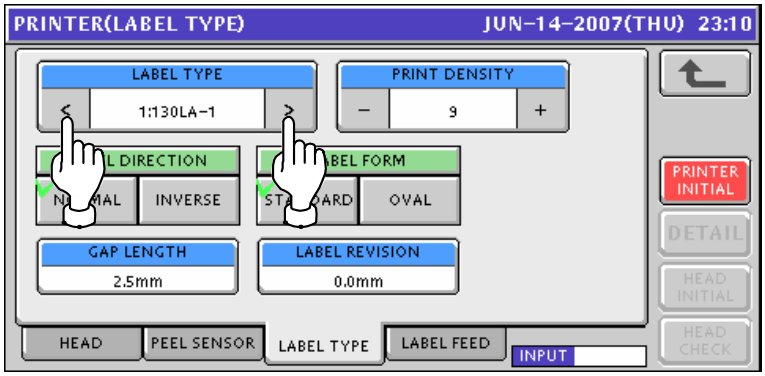
6. Press the [PEEL SENSOR] tab to display the Printer (Label Type) screen.



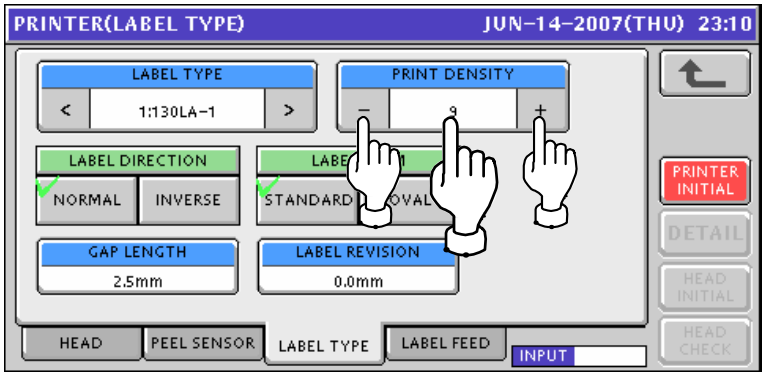
.

Select a desired label type by using either [<] or [>] button.

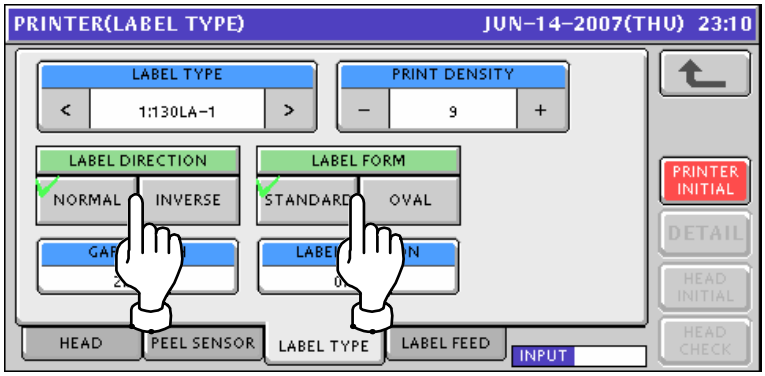
0: Receipt
1: 130LA-1
3: 150LA-1



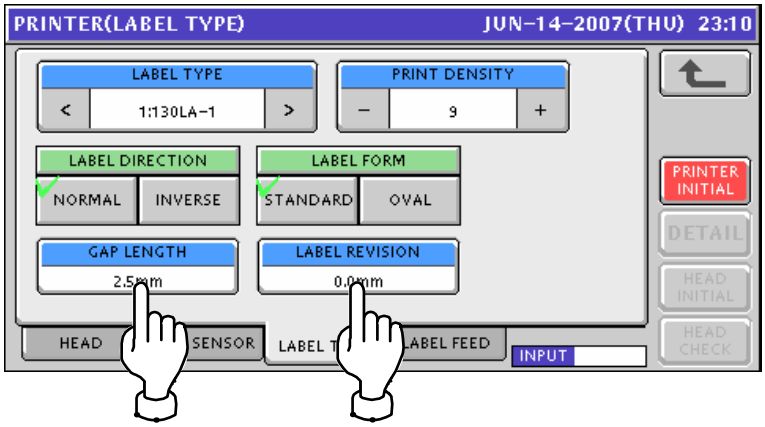
Select a desired print density level by using either [<] or [>] button, or, pressing the corresponding field after numeric data entry.



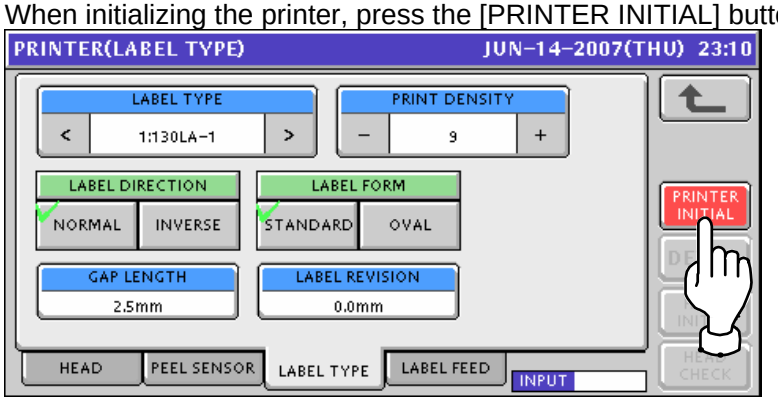
Press to select a desired field for each item.



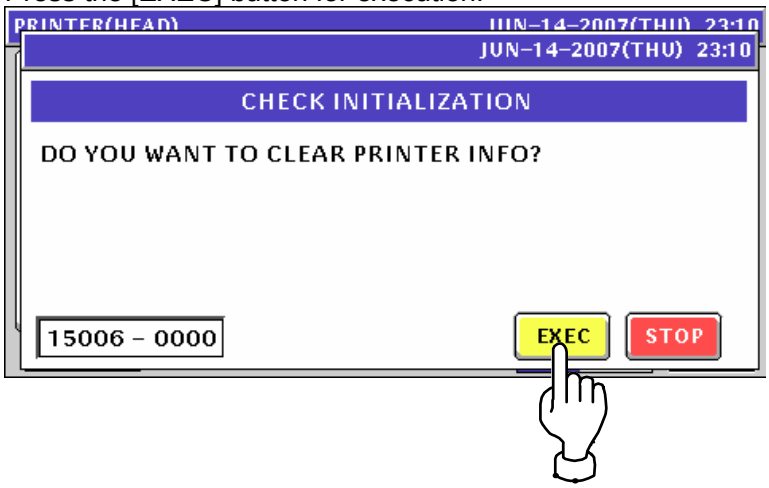
Enter a desired numeric value for each item and press the corresponding field.



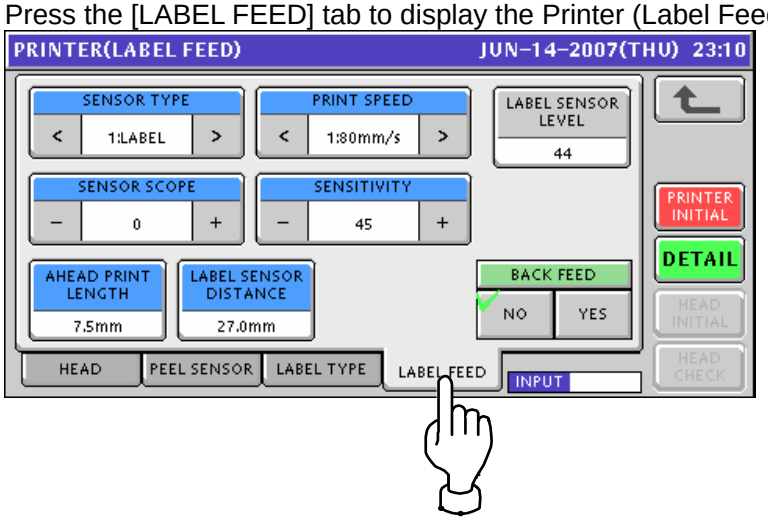
When initializing the printer, press the [PRINTER INITIAL] button.



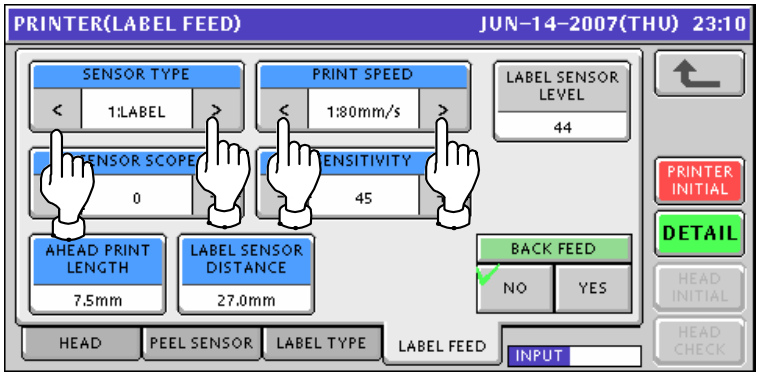
Press the [EXEC] button for execution.



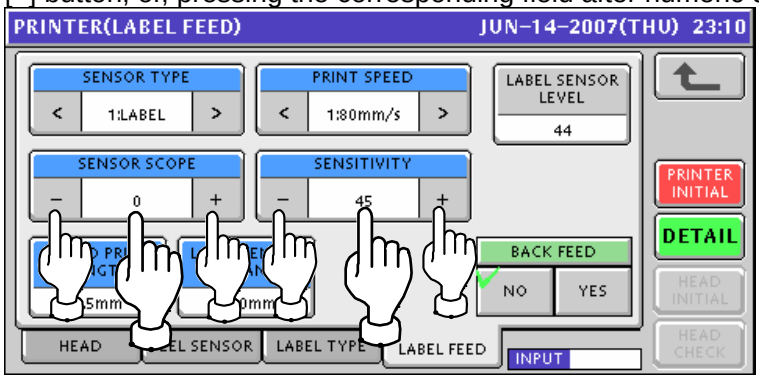
7. Press the [LABEL FEED] tab to display the Printer (Label Feed) screen.



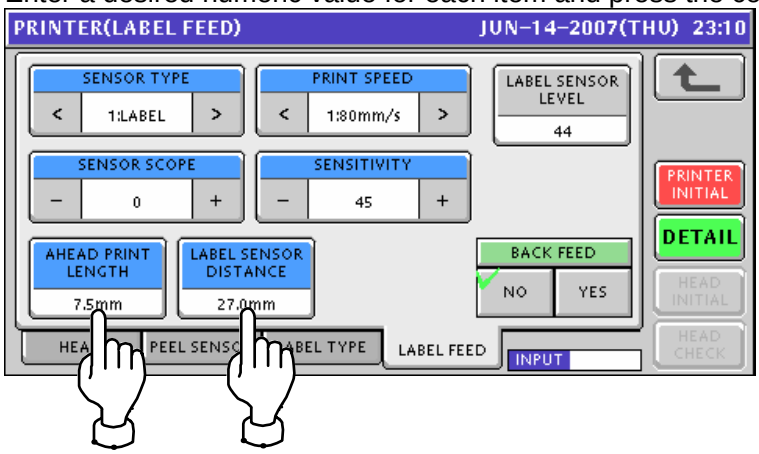
Select a desired sensor type and print speed by using either [<] or [>] button.
<Sensor Type>
0: None
1: Label
<Print Speed>
1: 80mm/sec
2: 100mm/sec



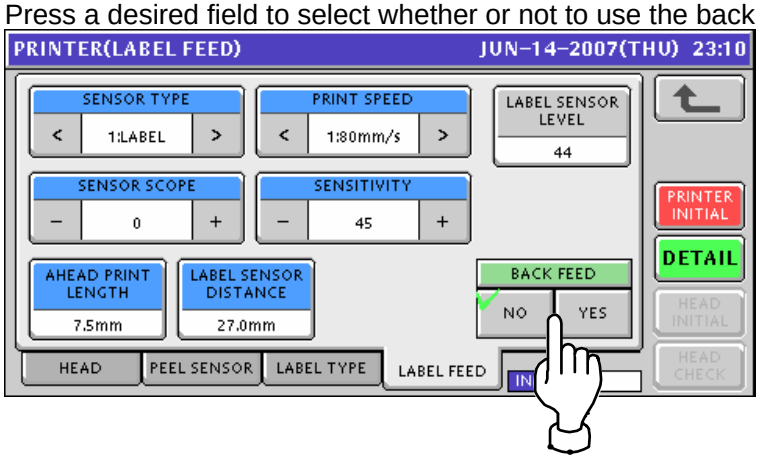
Select a desired numeric value for sensor scope and sensitivity levels by using either [-] or [+] button, or, pressing the corresponding field after numeric data entry.



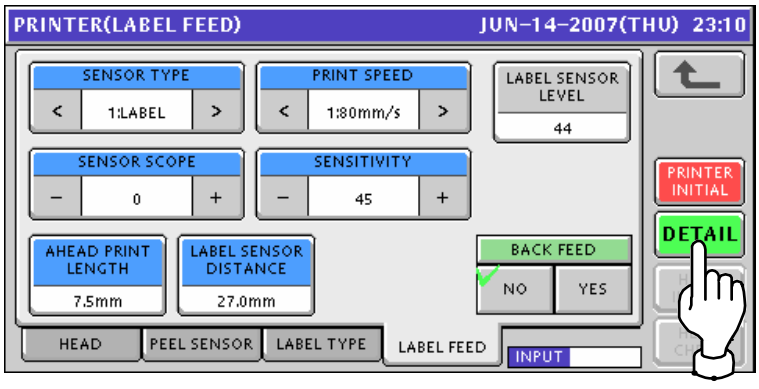
Enter a desired numeric value for each item and press the corresponding field.

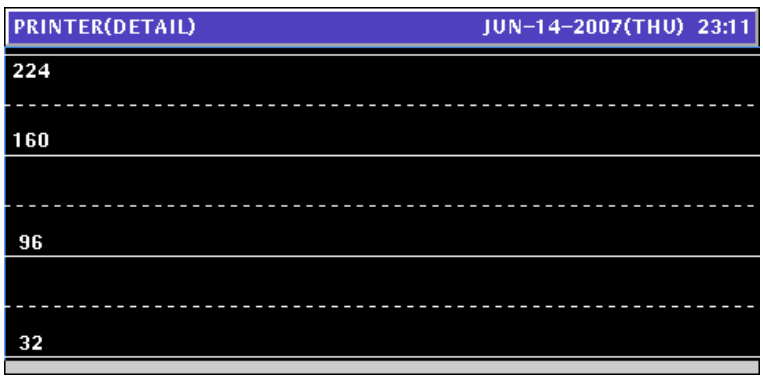


Press a desired field to select whether or not to use the back feed function.



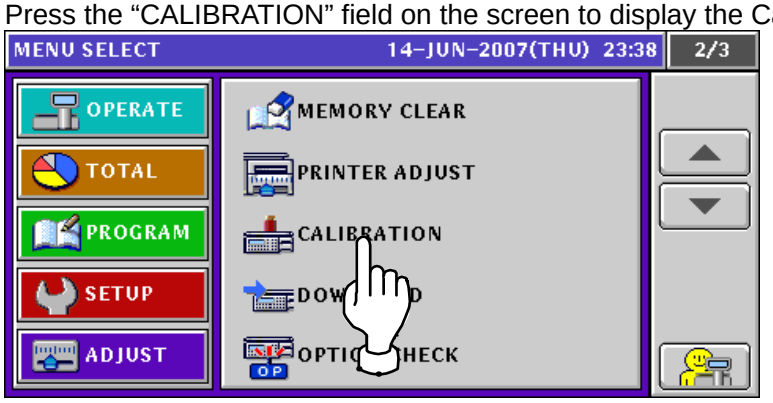
To display the detailed data of the printer, press the [DETAIL] button.



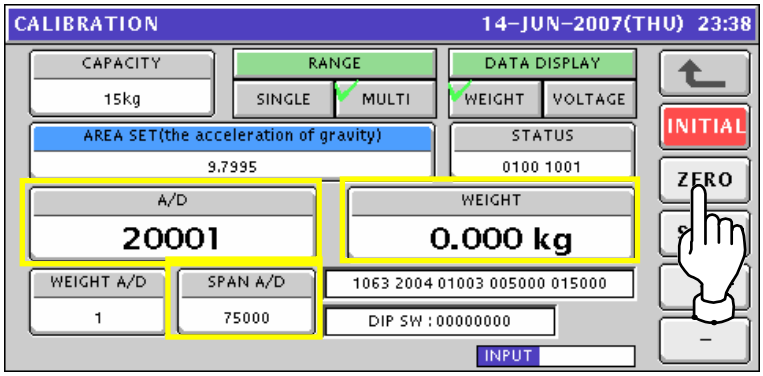


8.6 CALIBRATION

1. Press the “CALIBRATION” field on the screen to display the Calibration screen..

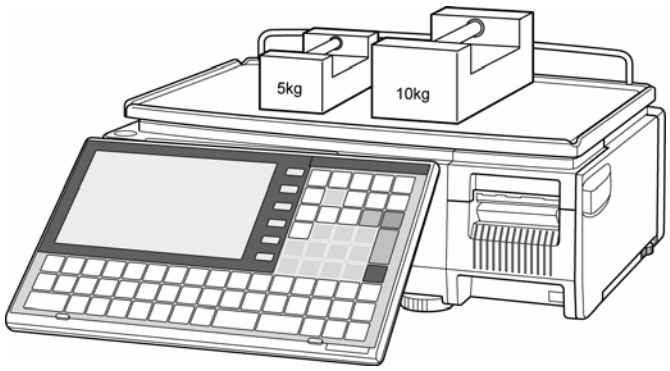


2. Press the [ZERO] button to perform zero point adjustment.
Then, the WEIGHT displays field shows “0.000kg” or “0.00lb”.
Check that the value in the A/D display field is “20000” and the SPAN A/D display field shows “75000” at this time.

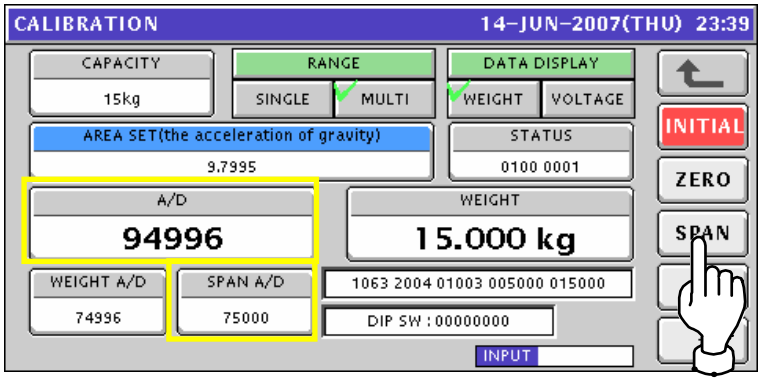


RANGE	Press to select either the “SINGLE” or “MULTI” field.
DATA DISPLAY	Press to select either the “WEIGHT” or “VOLTAGE” field.
AREA SET	Enter a desired numeric value and press this field.

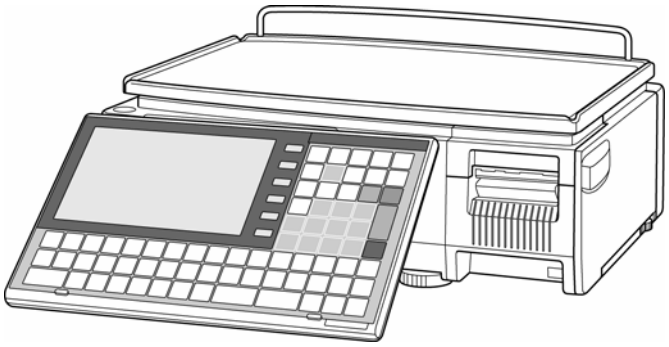
3. Place the weights of the same weight as the upper limit of the weighing capacity on the weigh platter.



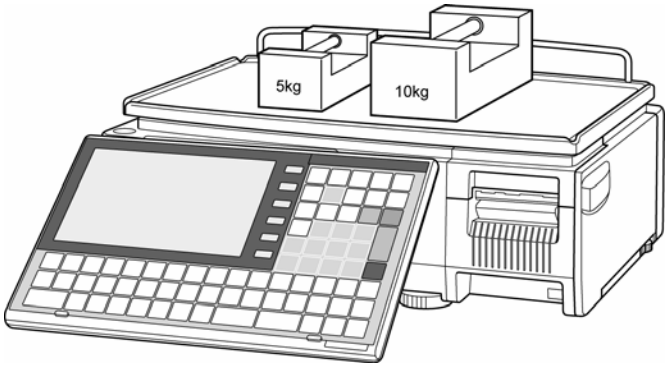
4. Press the [SPAN] button when displaying values are stabilized..
Then, check that the A/D display field shows “95000”, and the SPAN A/D display field shows ”75000”.

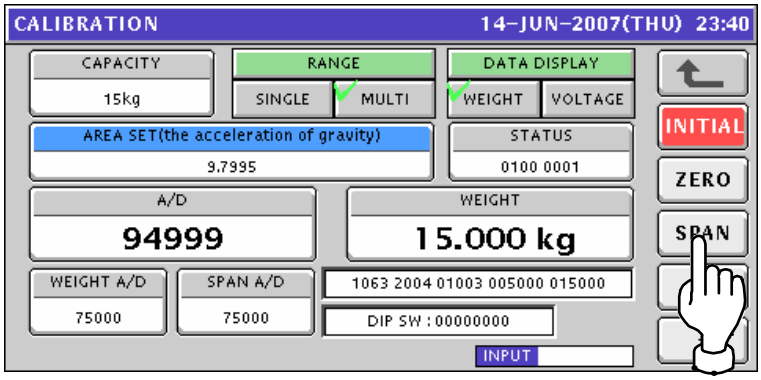


5. If the A/D and SPAN A/D values are not “95000” and ”75000” respectively, remove the weights from the platter.

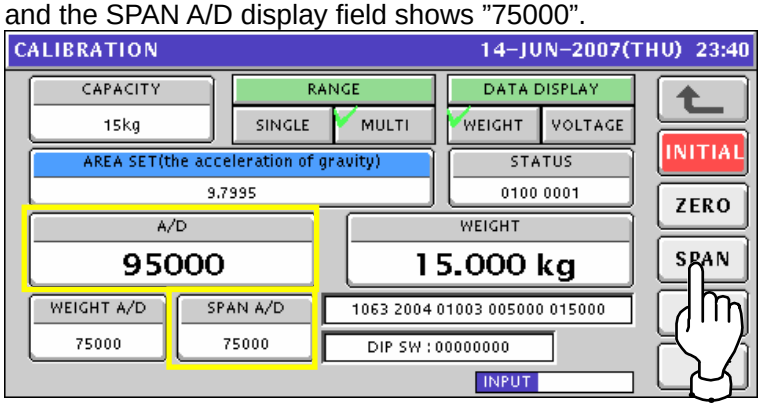


Then, place them on the platter again and press the [SPAN] button to check that the A/D display field shows “95000”, and the SPAN A/D display field shows ”75000”.

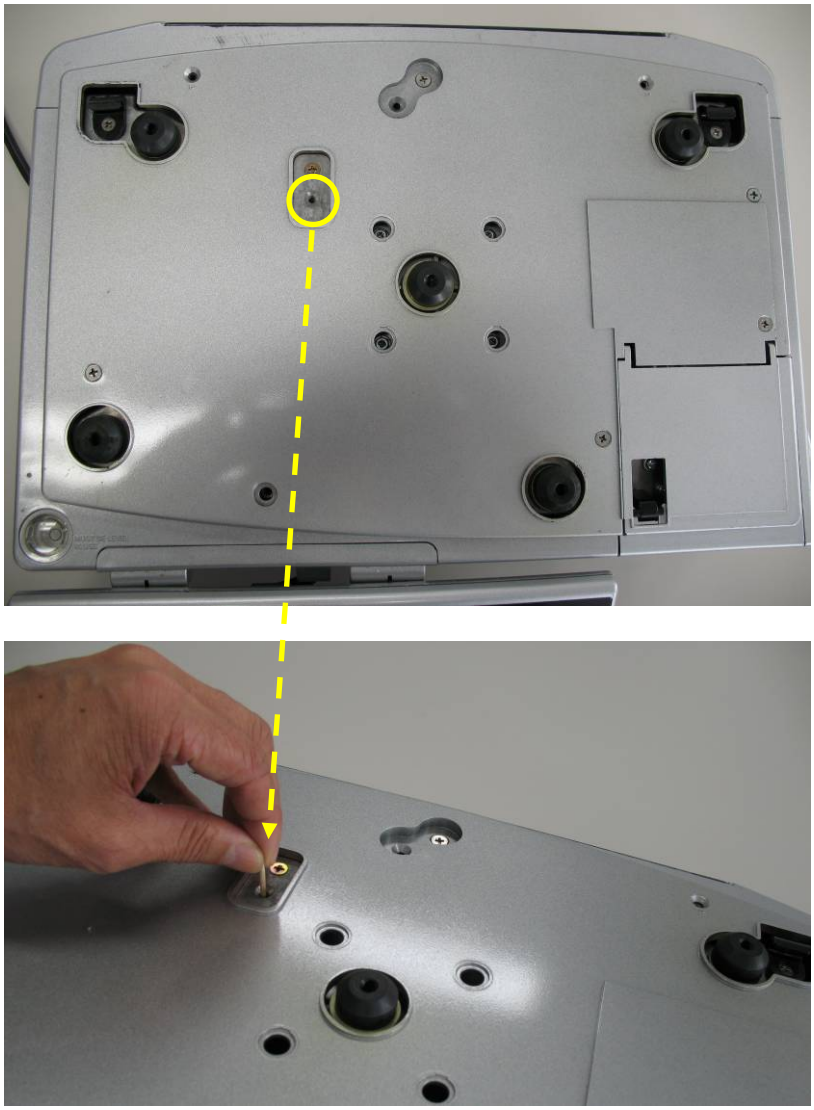




6. Repeat steps 3 through 5 above several times until the A/D display field shows “95000”, and the SPAN A/D display field shows ”75000”.

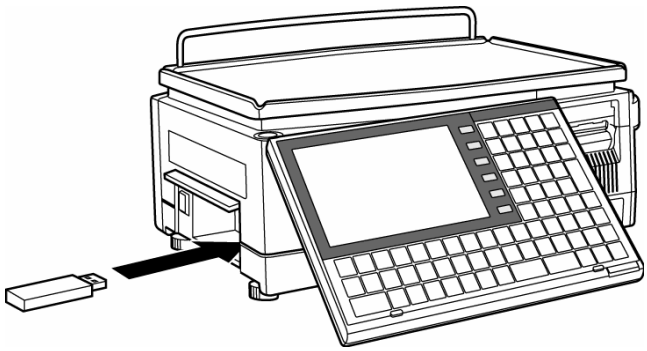


7. To memorize the adjusted span value, press the Memory button located on the main board inside of the machine with a nonconductive and thin material such a wooden stick through the hole on the upper case.

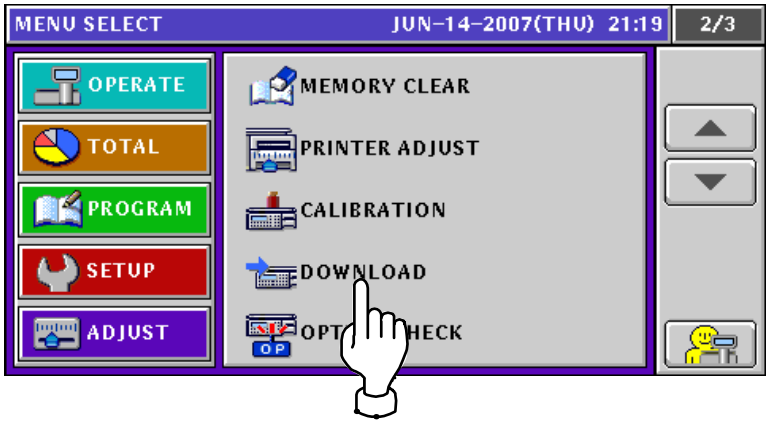


8.7 DOWNLOADING

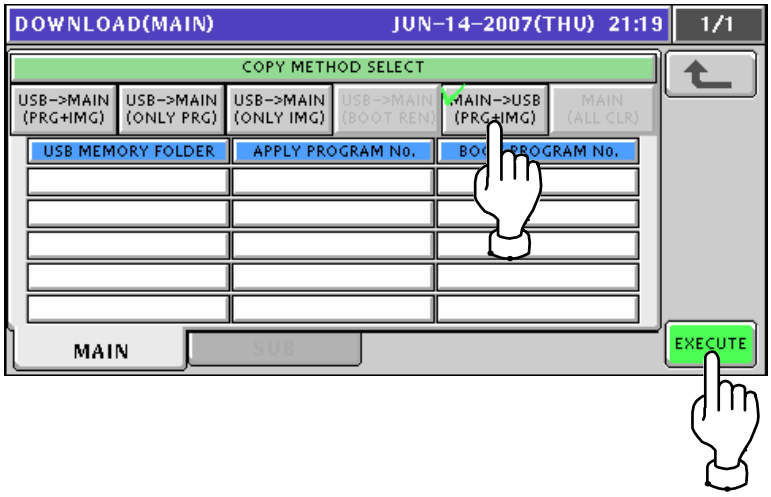
Before down-loading data from the USB memory, make sure that the USB memory is inserted into the USB port located in the connector cover of he main body..



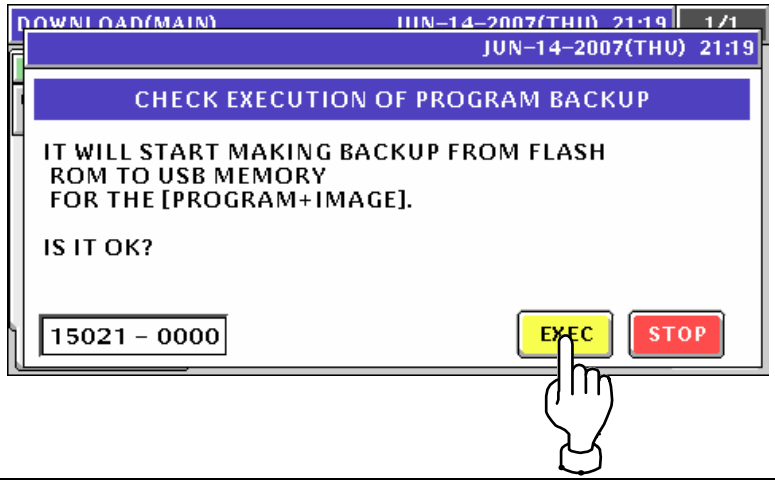
1. Press the “DOWNLOAD” field on the screen to display the Download (Main) screen.



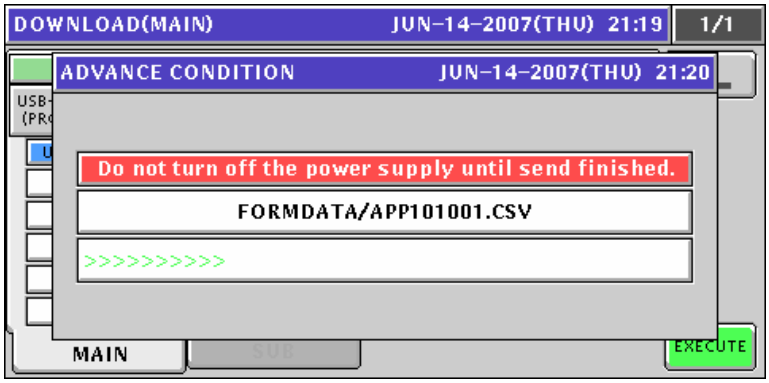
2-1. When loading data from the main memory to the USB memory, press to select the [MAIN→USB] button and press the [EXECUTE] button



2-2. The following confirmation screen appears. Then, press the [EXEC] button for execution.

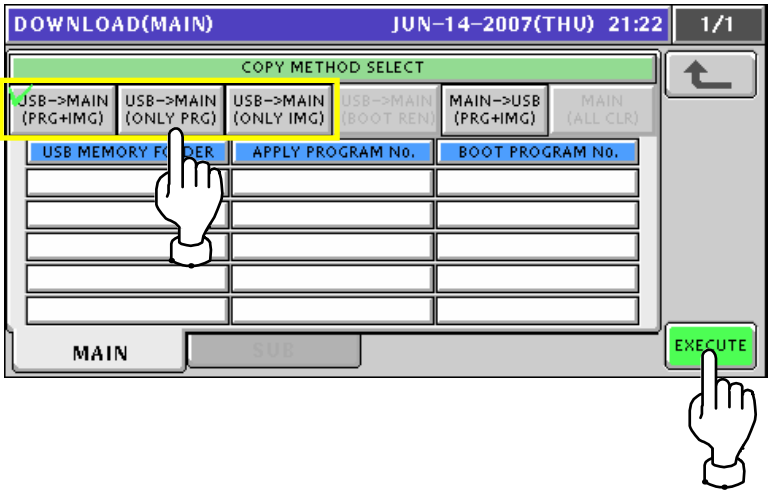


2-3. The progress screen appears.

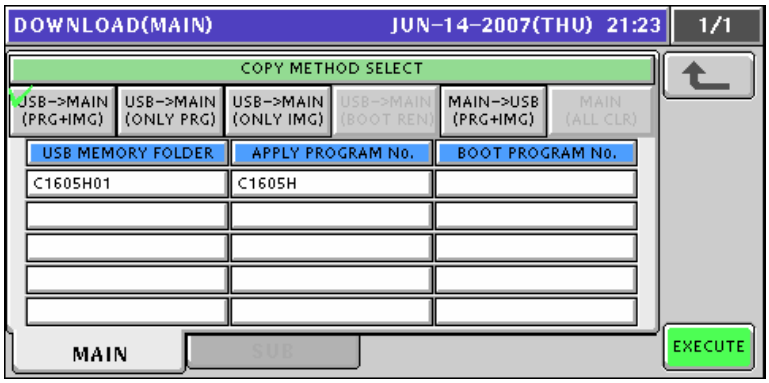


The beep sounds when completed.

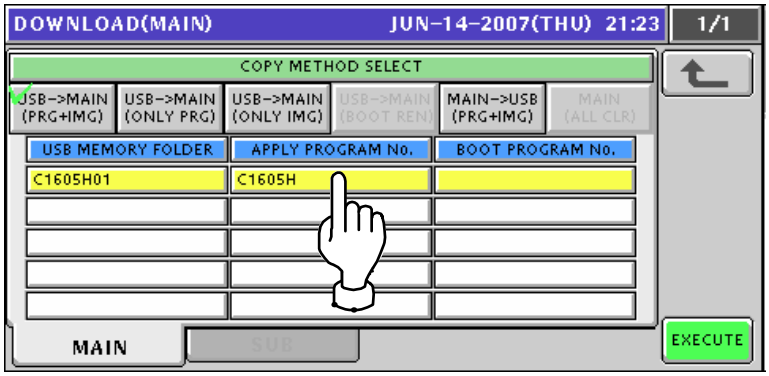
3-1. When loading data from the USB memory to the main memory, press to select one of the [USB→ MAIN] buttons and press the [EXECUTE] button



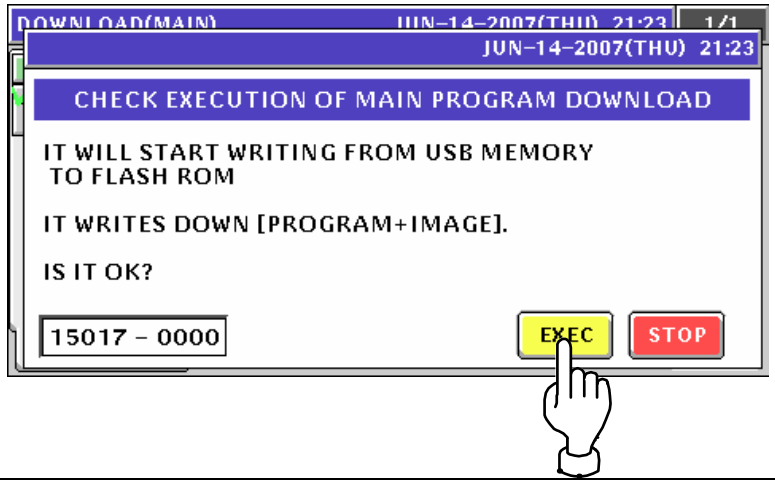
3-2. The Down Load (Main) screen appears.



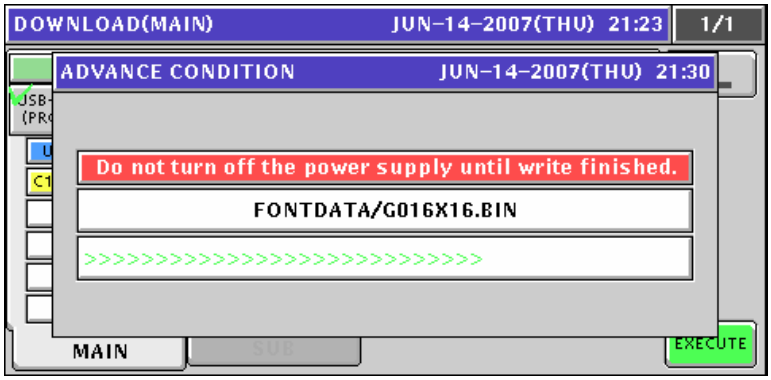
Press to select desired folders.



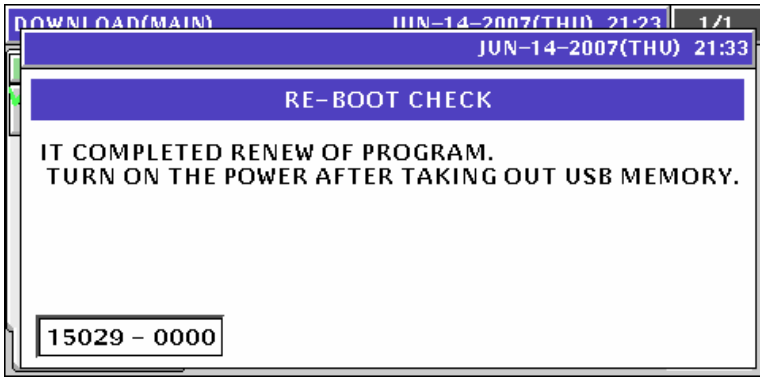
3-3. The following confirmation screen appears. Then, press the [EXEC] button for execution.



3-4. The progress screen appears.



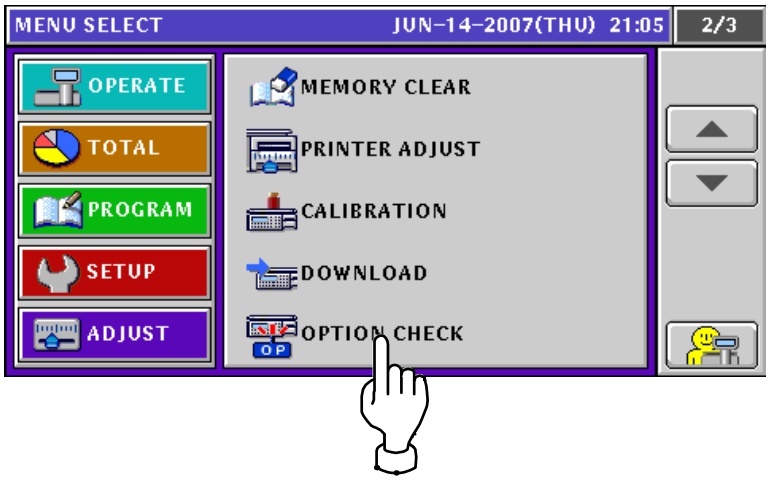
3-5. The following message screen appears.



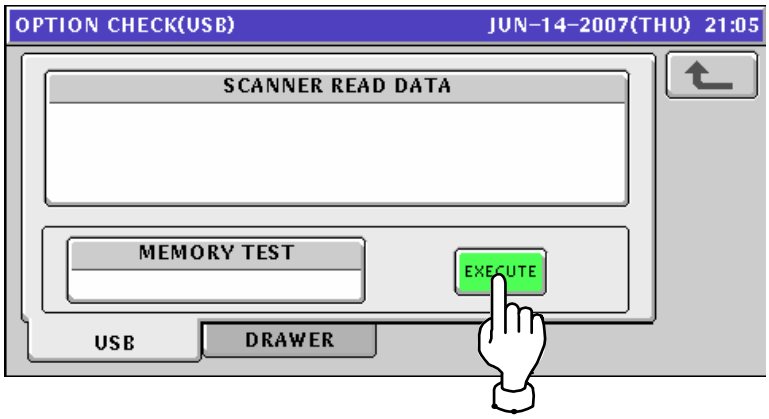
Then, pull out the USB from the port, and turn the power OFF and ON.

8.8 OPTION CHECK

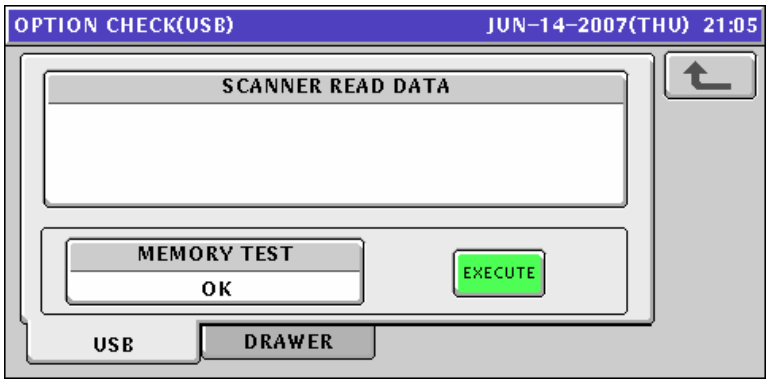
1. Press the “OPTION CHECK” field on the Menu Select screen.



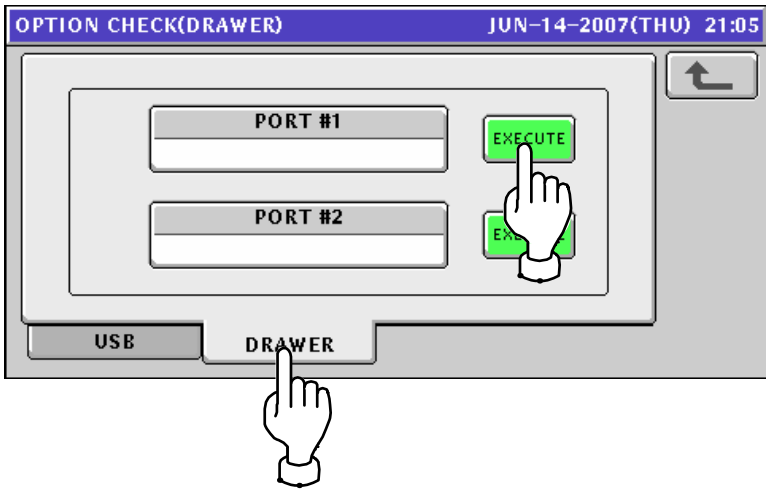
2. The Option Check (USB) screen appears.
Press the [EXECUTE] button to perform a memory test.



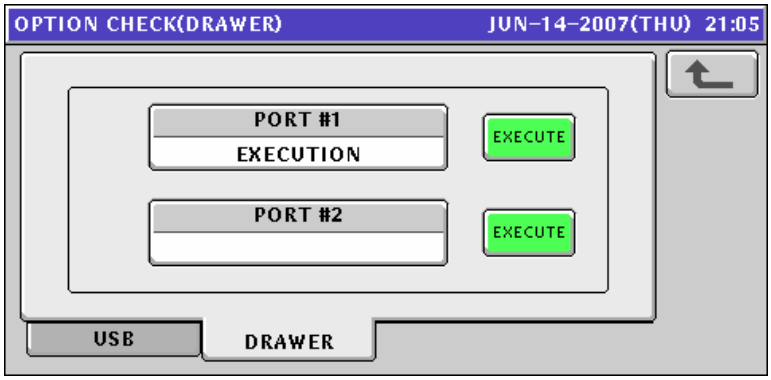
The “OK” message appears when the memory test has been completed.



3. Press the “DRAWER” tab to display the Option Check (Drawer) screen.
Then, press the [EXECUTE] button for each drawer port.



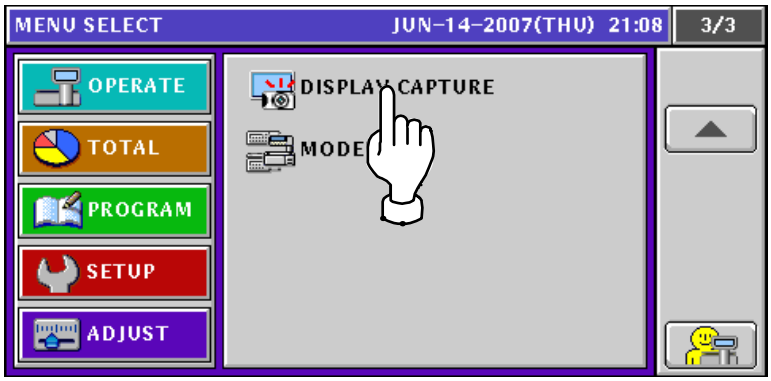
The “EXECUTION” message appears.



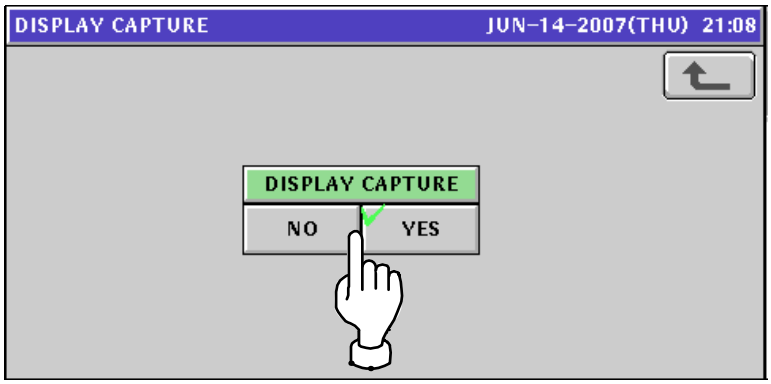
The beep sounds when the execution has been completed.

8.9 DISPLAY CAPTURE

1. Press the “DISPLAY CAPTURE” field on the screen.

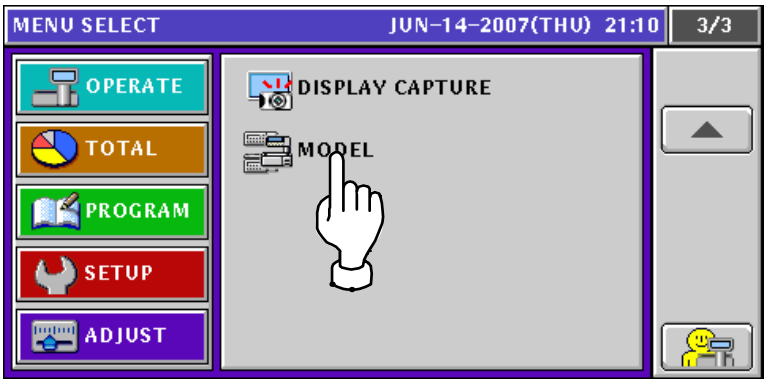


2. Press to select a desired field to decide whether or not to capture screen data.

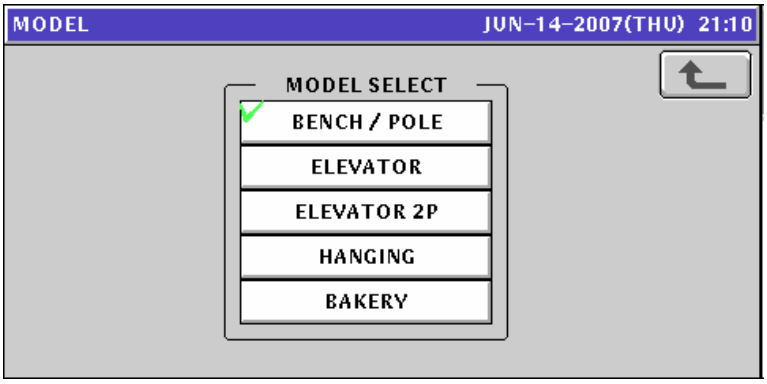


8.10 MODEL SETTING

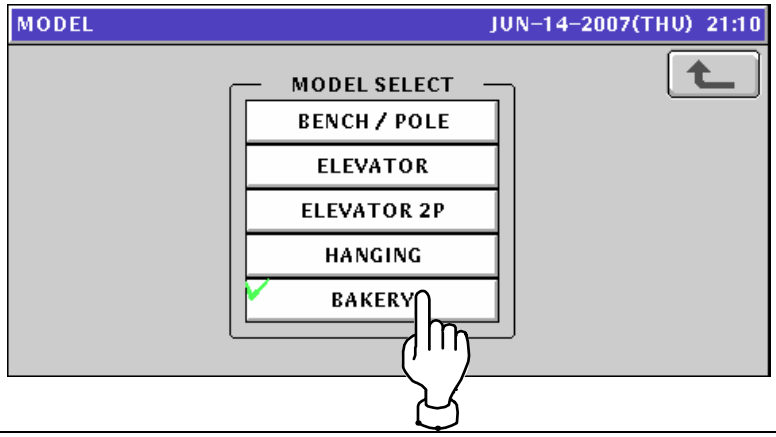
1. Press the “MODEL” field on the screen.



2. The Model Setting screen appears.



3. Press to select a desired model.



ERROR SCREENS

9

ERROR ID NOS. 105 – 116

ID NO.	TITLE	TEXT
105	INITIALIZATION FAILED	MAKE MEMORY INITIALIZATION
106	BATTERY IS FAULT	BATTERY SWITCH IS OFF OR NO MORE BATTERY
107	TOUCH PANEL ADJUSTMENT IS NOT COMPLETED YET	SET UP WITH (TOUCH PANEL) MODE
108	CLOCK SETTING IS NOT COMPLETED YET	SET UP WITH (CLOCL MODE)
109	PRINTER 1 INITIALIZATION WAS NOT DONE YET	INITIALIZE PRINTER 1
110	MACHINE SETTING IS NOT COMPLETED	SET UP WITH (MACHINE SELECTION) MODE
111	THE DISPLAY CONFIREMATION IS NOT COMPLETED.	PLEASE SET IT ON [DISPLAY CONFIRMATION] SCREEN OF THE ADJUSTMENT MODE.
112	THE CONFIRMATION OF THE KEY OPERATION IS NOT COMPLETED.	PLEASE SET IT ON [KEY] SCREEN OF THE ADJUSTMENT MODE.
113	PRINTER 2 ERROR	PLEASE SET IT ON [COMMUNICATION CHECK] SCREEN OF THE ADJUSTMENT MODE.
114	THE DATA COMPOSTION IS DIFFERENNT.	PLEASE INITIALIZE THE MEMORY.
116	THE COUNTRY HAS NOT BEEN SELECTED.	PLEASE SELECT THE COUNTRY.

ERROR ID NOS. 202 – 295

ID NO.	TITLE	TEXT
202	PLU MASTER IS NOT PROGRAMMED	PLU No. [*] IS NOT PROGRAMMED. CHECK PLU No.
203	POSP MASTER IS NOT PROGRAMMED	POP No. [*] IS NOT PROGRAMMED. DLETE IT?
204	ORIGIN MASTER IS NOT PROGRAMMED	COUNTRY OF ORIGIN No. [*] IS NOT PROGRAMMED DELETE IT?
205	PRIMARY MATERIAL MASTER IS NOT PROGRAMMED	MATERIAL No. [*] IS NOT PROGRAMMED DELETE IT?
206	STORAGE CONDISTION MASTER IS NOT PROGRAMMED	PRESERVATION WAY No. [*] IS NOT PROGRAMMED DELETE IT?
207	TEMPERATURE MASTER IS NOT PROGRAMMED	TEMPERATURE No. [*] IS NOT PROGRAMMED DELETE IT?
212	FREE1 MASTER ISN'T REGISTERED	FREE1 No. [*] ISN'T PROGRAMMED. DELETE IT?

213	FREE2 MASTER ISN'T REGISTERED	FREE2 No. [*] ISN'T PROGRAMMED DELETE IT?
214	FREE3 MASTER ISN'T REGISTERED	FREE3 No. [*] ISN'T PROGRAMMED DELETE IT?
215	FREE4 MASTER ISN'T REGISTERED	FREE4 No. [*] ISN'T PROGRAMMED DELETE IT?
216	FREE5 MASTER ISN'T REGISTERED	FREE5 No. [*] ISN'T PROGRAMMED DELETE IT?
219	STORE MASTER IS NOT PROGRAMMED	STORE No. [*] IS NOT PROGRAMMED CHECK STORE No.
221	TARE LIMIT OVER (MAX 5998g)	RE-PROGRAM TARE WEIGHT. IF YOU RELEASE ERROR
222	TARE WEIGHT IS 0g	SET TARE WEIGHT
223	COMMENT MASTER IS NOT PROGRAMMED	COMMENT No. [*] IS NOT PROGRAMMED DELETE IT?
224	LABEL SETTING MASTER IS NOT PROGRAMMED	LABEL No. [*] IS NOT PROGRAMMED WANT TO PROGRAM AS DEFAULT?
229	FILE SYSTEM IS ABNORMAL	CHECK FILE CONTENTS
259	CALORY MASTER IS NOT PROGRAMMED	CAROLY No. [*] IS NOT PROGRAMMED DELETE IT?
266-000	FILE INPUT ERROR	THERE IS FILE THAT FAILED IN INPUT.
266-001	FILE INPUT ERROR	FAILED IN RECONSTRUCTION OF SRAM DATA
267-000	FILE OUTPUT ERROR	THERE IS FILE THAT IS FAILED IN OUTPUT.
267-001	FILE OUTPUT ERROR	FAILED IN SRAM DATA BACK UP
268-000	FILE DELETE ERROR	THERE IS MASTER THAT FALIED IN DELETING.
268-001	FILE DELETE ERROR	FAILED IN SRAM DATA DELETE
268-002	FILE DELETE ERROR	IT FAILED IN DATA DELETE.
268-003	FILE DELETE ERROR	THERE IS DATA THAT FAILED IN DELETING.
271	INITIALIZE ERROR	THERE IS MASTER THAT FAILED IN INITIALIZATION
273	ABNORMAL	THERE IS ISSUE THAT HAS DIGNOSYS RESULT AS ABNORMAL.
274-000	ABNORMAL	THERE IS ISSUE THAT HAS DIGNOSIYS RESULT AS ABNORMAL.
274-001	ABNORMAL	IT CANCELED TOTAL DIGNOSYS PROCESS WITH FOLLOWING REASON. - IT FAILED IN DIGYNOSYS START PROCESS
274-002	ABNORMAL	IT CANCELED TOTAL DIGNOSYS PROCESS WITH FOLLOWING REASON. - IT FAILED IN GETTING IT.

274-003	ABNORMAL	IT CANCELED TOTAL DIGNOSYS PROCESS WITH FOLLOWING REASON. * IT FINISHED DIGNOSYS PROCESS WITHIN TIME.
281	TARE LIMIT OVER (MAX 5.998kg)	RE-PROGRAM TARE WEIGHT. IF YOU RELEASE ERROR
282	TARE WEIGHT IS 0kg	SET TARE WEIGHT
283	TARE LIMIT OVER (MAX 9.99lb)	RE-PROGRAM TARE WEIGHT. IF YOU RELEASE ERROR
284	TARE WEIGHT IS 0lb	SET TARE WEIGHT
286	FREE 6	
287	FREE 7	
288	FREE 8	
289	FREE 9	
290	FREE 10	
291	FREE 11	
292	FREE 12	
293	FREE 13	
294	FREE 14	
295	FREE 15	

ERROR ID NOS. 312 – 396

ID NO.	TITLE	TEXT
312-000	LABEL IS REMAINING	* LABEL IS REMAINING. REMOVE LABEL
312-001	LABEL IS REMAINING	REMOVE LABEL ON APPLICATOR.
313	PRINTER THERAML HEAD IS UP	* THERMAL HEAD IS UP. SET THERMAL HEAD
316	MARK DOWN PRICE IS MORE THAN ORIGINAL PRICE	CHECK PRICE. NORMAL PRICE[* $] MARK DOWN PRICE[* $]
317	VARIOUS PRICE IS LOWER THAN ORIGINAL PRICE	CHECK PRICE. NORMAL PRICE[* $] VARIOUS PRICE[* $]
318	MARK DOWN UNIT PRICE IS LESS THAN ORIGINAL PRICE.	CHECK UNIT PRICE. NORMAL UNIT/PRICE[* $] MARK DOWN UNIT PRICE[* $]
319	PRODUCTION FOR TARGET IS COMPLETED	CHECK TARGET No. CLEARS TARGET No.
321	PRICE IS NOT PROGRAMMED	ENTER PRICE
339	LOWER VALUE IS LESS THAN FIXED WEIGHT	IF YOU CHANGE FIXED WEIGHT [* g] TO [* g]
342	POS CODE IS NOT PROGRAMMED	POS CODE IS NOT PROGRAMMED AFTER PROGRAMMING IT
343	POS CODE IS NOT PROGRAMMED	POS CODE IS NOT PROGRAMMED. BARCODE CAN NOT BE PRINTED.
347-000	THERMAL HEAD IS WORN OUT	IT WORNS OUT WHERE IT DOES NOT EFFECT ON PRINTING. NO PROBLEM ON PRICING LABEL. DO YOU WANT TO CHECK? PRESS (EXEC) TO CHECK. DOES NOT CHECK (STOP).
347-001	THERMAL HEAD IS WORN OUT	IT IS WORN OUT SIDE OF FORMAT YOU NEED TO CHANGE THERAMAL HEAD. DO YOU WANT TO CHECK? START CHECKING WITH (EXEC). (STOP) DO NOT CHECK
347-002	THERMAL HEAD IS WORN OUT	IT IS NOT PRITNING BARCODE CORRECTLY. CHANGE THERMAL HEAD. YOU CAN NOT DO THE WORK.
351	LABEL IS REMAINING	REMOVE LABEL
356	THERE IS NO CF CARD	CHECK CF CARD.
357	THERE IS NO DICTIONARY FILE	CHECK CF CARD.
361	POWER IS ON	CHECK SCALE FOR STARTING PRODUCTION.
396	NO USB MOMORY	CHECK USB MEMORY

ERROR ID NOS. 703 – 715

ID NO.	TITLE	TEXT
703	PRINTER 1 HAS PROBLEM	NO SPACE FOR PRINTING QUE. WAIT 10 SEC AFTER TURNING OFF THE MACHINE.
710-000	NO LABEL FOR PRINTER 1	CHANGE LABEL FOR PRINTER 1 1. PULL OUT CASSETTE 2. CHANGE LABEL 3. SET CASSETTE
710-001	NO LABEL FOR PRINTER 1	CHANGE LABEL FOR PRINTER 1 1. UP THERMAL HEAD
710-002	NO LABEL FOR PRINTER 1	CHANGE LABEL FOR PRINTER 1 1. OPEN FRONT COVER
711-000	LABEL SIZE ERROR FOR PRINTER 1	REMOVE LABEL FOR PRINTER 1 PRESS (FEED) TO PRINT OUT LABEL.
711-001	LABEL SIZE ERROR FOR PRINTER 1	REMOVE LABEL FOR PRINTER 1 PRINT OUT LABEL BY (FEED) KEY.
711-002	LABEL SIZE ERROR FOR PRINTER 1	REMOVE LABEL FOR PRINTER 1 1. OPEN FRONT COVER
712-000	NO CASSETE FOR PRINTER 1	SET CASSETTE FOR PRINTER 1 PRINT OUT LABEL BY (FEED)
712-001	NO CASSETE FOR PRINTER 1	SET CASSETTE FOR PRINTER 1 PRINT OUT LABEL BY (FEED)
712-002	NO CASSETE FOR PRINTER 1	SET CASSETTE FOR PRINTER 1 1. OPEN FRONT COVER. 2. SET UP CASSETTE 3. PRINT OUT LABEL BY (FEED) 4. CLOSE FRONT COVER. 5. PRESS (RETURN)
713	TOO MANY CHARACTERS ON FORMAT FOR PRINTER 1	FAILED IN [*].
714-000	REMAINING LABEL ON PRINTER 1	REMOVE LABEL
714-001	REMAINING LABEL ON PRINTER 1	REMOVE LABEL
714-002	REMAINING LABEL ON PRINTER 1	REMOVE LABEL
715-000	THERMAL HEAD IS WORN OUT FOR PRINTER 1	NEED TO CHANGE THERMAL HEAD
715-001	THERMAL HEAD IS WORN OUT FOR PRINTER 1	THERMAL HEAD IS WORN OUT BUT DOES NOT EFFECT ON PRINTING YOU CAN CONTINUE LABELLING. DO YOU WANT TO MAKE FURTHER CHECK? PRESS (EXEC) TO CHECK. DOES NOT MAKE (STOP) CHECK.
715-002	THERMAL HEAD IS WORN OUT FOR PRINTER 1	THERMAL HEAD IS WORN OUT WITHIN FORMAT. NEED TO CHANGE THERMAL HEAD. DO YOU WANT TO MAKE FURTHER CHECK? (EXEC) TO CHECK. (STOP) NOT TO CHECK

715-003	THERMAL HEAD IS WORN OUT FOR PRINTER 1	CAN NOT PRINT BARCODE CORRECTLY. CHANGE THERMAL HEAD. CAN NOT PRINT LABEL. CAN NOT DO LABELLING.
715-004	THERMAL HEAD IS WORN OUT FOR PRINTER 1	THERMAL HEAD IS WORN OUT BUT DOES NOT EFFECT ON PRINTING YOU CAN CONTINUE LABELLING. DO YOU WANT TO MAKE FURTHER CHECK? PRESS (EXEC) TO CHECK. DOES NOT MAKE (STOP) CHECK.
715-005	THERMAL HEAD IS WORN OUT FOR PRINTER 1	THERMAL HEAD IS WORN OUT WITHIN FORMAT. NEED TO CHANGE THERMAL HEAD. DO YOU WANT TO MAKE FURTHER CHECK? (EXEC) TO CHECK. (STOP) NOT TO CHECK
715-006	THERMAL HEAD IS WORN OUT FOR PRINTER 1	CAN NOT PRINT BARCODE CORRECTLY. CHANGE THERMAL HEAD. CAN NOT PRINT LABEL. CAN NOT DO LABELLING.
715-007	THERMAL HEAD IS WORN OUT FOR PRINTER 1	THERMAL HEAD IS WORN OUT BUT DOES NOT EFFECT ON PRINTING YOU CAN CONTINUE LABELLING. DO YOU WANT TO MAKE FURTHER CHECK? PRESS (EXEC) TO CHECK. DOES NOT MAKE (STOP) CHECK.
715-008	THERMAL HEAD IS WORN OUT FOR PRINTER 1	THERMAL HEAD IS WORN OUT WITHIN FORMAT. NEED TO CHANGE THERMAL HEAD. DO YOU WANT TO MAKE FURTHER CHECK? (EXEC) TO CHECK. (STOP) NOT TO CHECK
715-009	THERMAL HEAD IS WORN OUT FOR PRINTER 1	CAN NOT PRINT BARCODE CORRECTLY. CHANGE THERMAL HEAD. CAN NOT PRINT LABEL. CAN NOT DO LABELLING.

ERROR ID NOS. 1601 – 1624

ID NO.	TITLE	TEXT
1601	SPAN ADJUSTMENT FOR SCALE IS NOT COMPLETED	RE-SET SPAN
1624	DATA SET ERROR	SET DATA ONEDIGIT DIFFERENT ERROR. ONE DIGIT CHECK.

ERROR ID NOS. 1801 – 1825

ID NO.	TITLE	TEXT
1801	CHECKING CLOCK SETTING	ADJUST CLOCK.
1824-000	TARGET ACHIEVED	TARGET ACHIVED
1824-001	CHANGE PLU	DO YOU WANT TO CHANGE?
1824-002	EXIT SALES MODE	DO YOU WANT TO SAVE TO TARGET VALUE?

ERROR ID NO. 2001

ID NO.	TITLE	TEXT
2001	NO SPACE FOR MEMORY CARD	CHANGE IT TO NEW MEMORY CARD OR DELETE UNNECESSARY FILE IN MEMORY CARD BY PC

ERROR ID NOS. 9608 – 9690

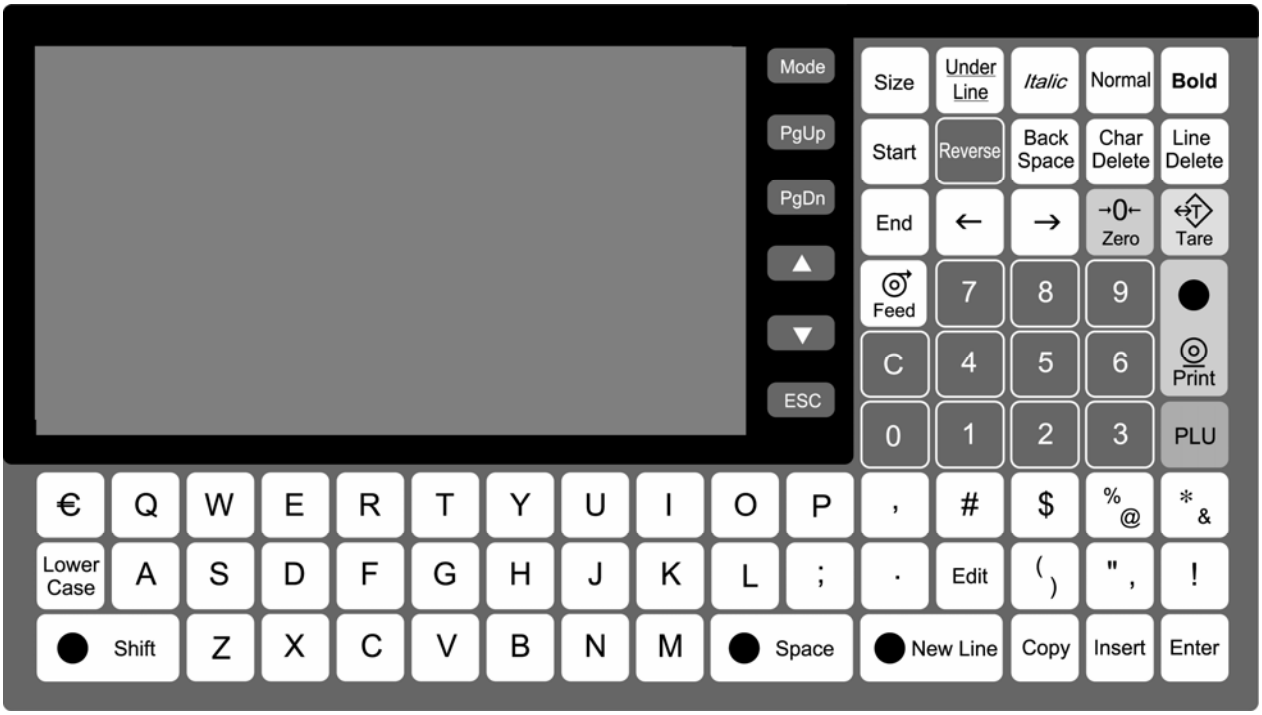
ID NO.	TITLE	TEXT
9608	IT IS NOT PROGRAMMED IN PRESERVASION WAY MASTER	TEMPERATURE MASTER No. [*] IS NOT PROGRAMMED. CHECK THE CONTENTS FOR MASTER.
9609	IT IS NOT PROGRAMMED IN PRESERVASION WAY MASTER	PRESERVATION No. [*] IS NOT PROGRAMMED. CHECK THE CONTENTS FOR THE MASTER.
9653	IT IS NOT PROGRAMMED IN CALORY MASTER	CALORY No. [*] IS NOT PROGRAMMED. CHECK THE CONTENTS FOR MASTER.
9690	MEMORY IS FULL	DATA CAN NOT BE RENEWED. IT DELETES UNNECESSARY MASTER IN THE MASTER MACHINE.

TEXT EDITING

A

A.1 OPERATION PANEL AND KEY FUNCTIONS

■ Operation Panel



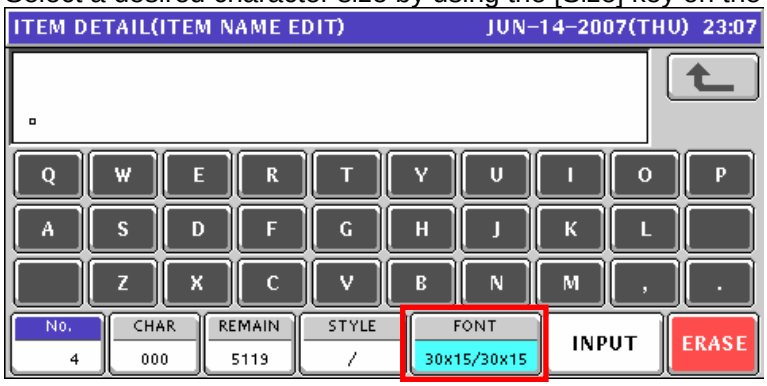
■ Keys for Text Editing

Back Space	Used to delete a character by moving the cursor back by one character.	Size	Used to select a font size for a text displayed on the screen.
Char Delete	Used to delete a character at the place where the cursor is positioned.	Insert	Used to insert a character, or select characters followed by depressions of the [→] or [←] key.
Line Delete	Used to delete a line text.	→	Used to move the cursor to right. Also used to select characters for changing the style.
Normal	Used to specify a normal character style.	←	Used to move the cursor to left. Also used to select characters for changing the style.
Bold	Used to specify a bold character style.	Lower Case	Used to select either lower-case or upper-case character mode for a text to be entered.

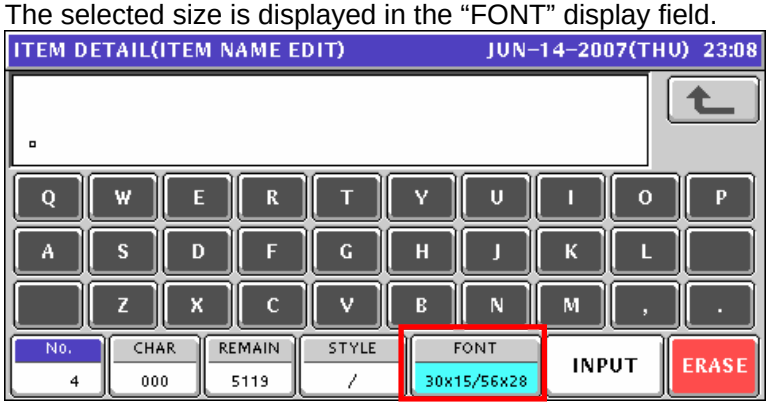
	Used to specify an Italic character style.		Used to copy the original data to the current data.
	Used to specify an underlined character style.		Used to finalize editing a text.
	Used to specify a revered character.		Used to begin a new character line.
	Used to enter a space at the place where the cursor is positioned.		Used to select either a lower-case or upper-case mode for a character to be entered.

A.2 NORMAL CHARACTER REGISTRATION

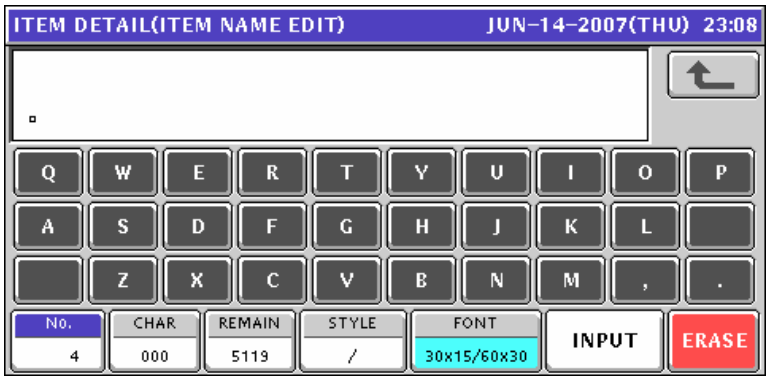
1. Confirm that the text edit screen is displayed.
Select a desired character size by using the [Size] key on the key sheet.

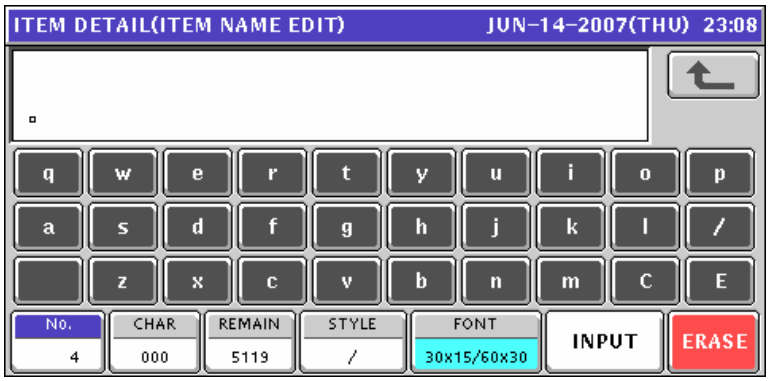


The selected size is displayed in the “FONT” display field.



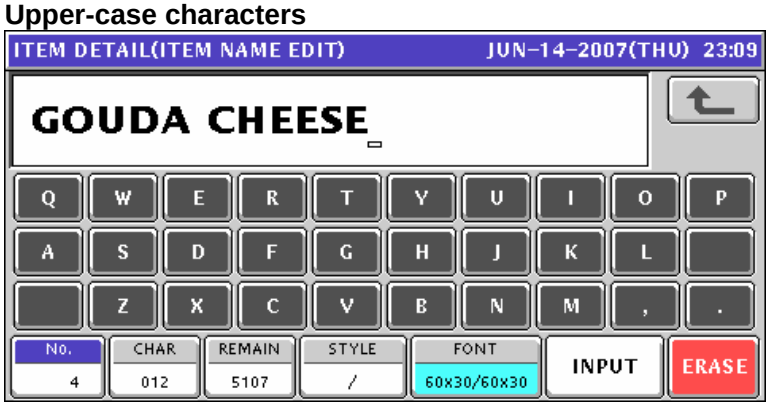
2. Press the [Lower Case] key on the key sheet to select whether to use upper-case characters or lower-case characters.



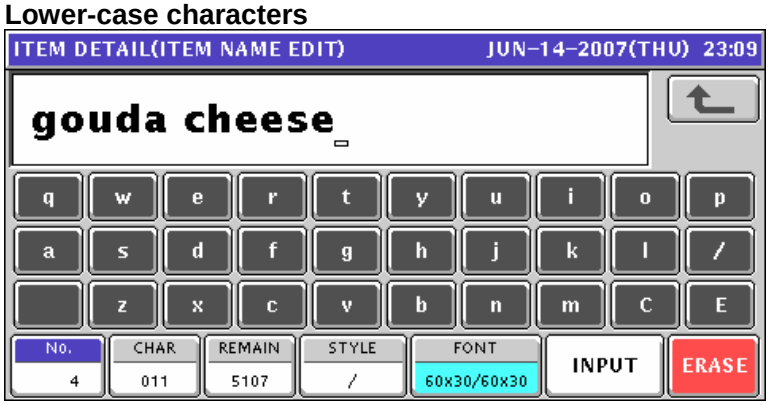


3. Enter desired characters using alpha-numeric keys on the key sheet or the screen.

Upper-case characters

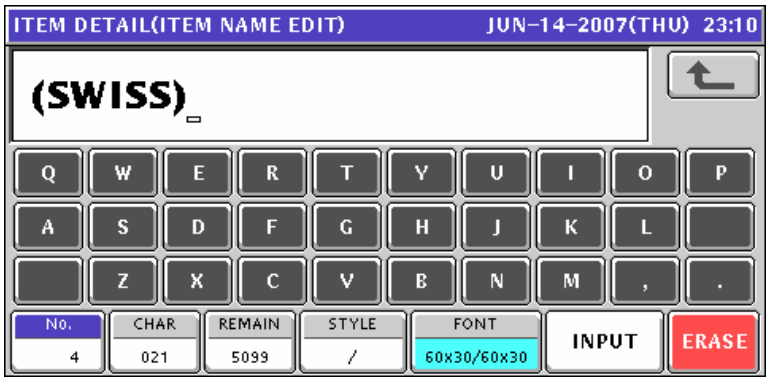


Lower-case characters



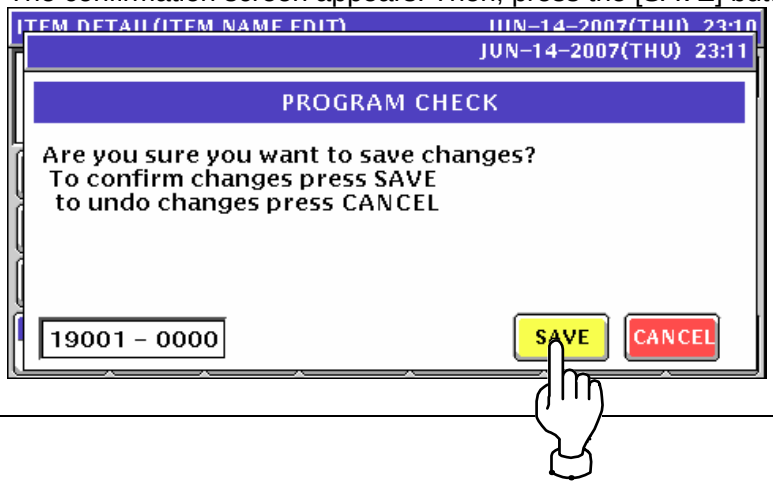
4. To change to a new line, press the [New Line] key on the key sheet.

Enter desired characters.



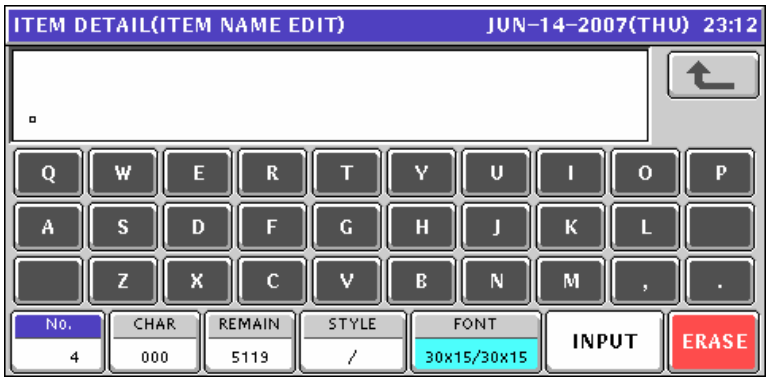
5. To finalize the editing, press the [ESC] key on the key sheet.

The confirmation screen appears. Then, press the [SAVE] button to save the data.



A.3 SPECIAL CHARACTER REGISTRATION

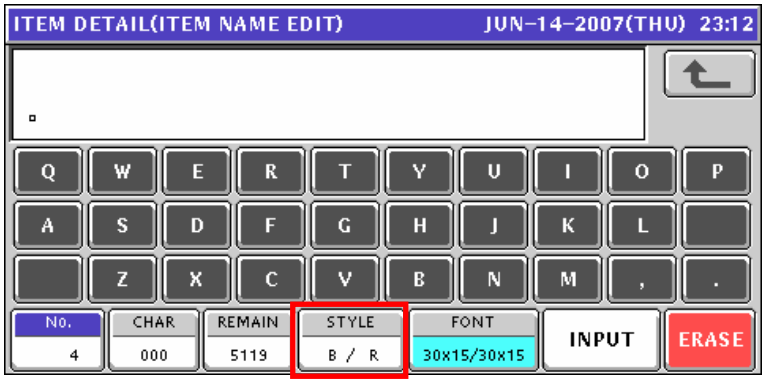
1. Confirm that the text edit screen is displayed.



2. To select a desired character style using the following keys.

The selected style is displayed in the “STYLE” display field.

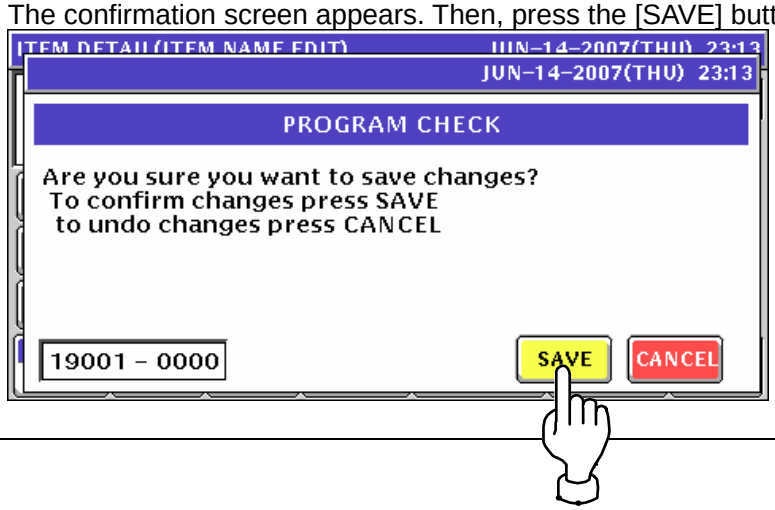
EXAMPLE
Select reversed characters.



3. Enter desired characters using alpha-numeric keys on the key sheet or the screen.

4. Press the [ESC] key on the key sheet.

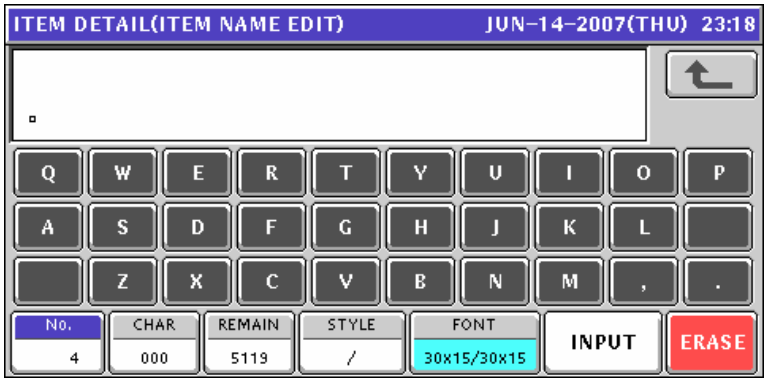
The confirmation screen appears. Then, press the [SAVE] button to save the data.



A.4 LINE DELETION

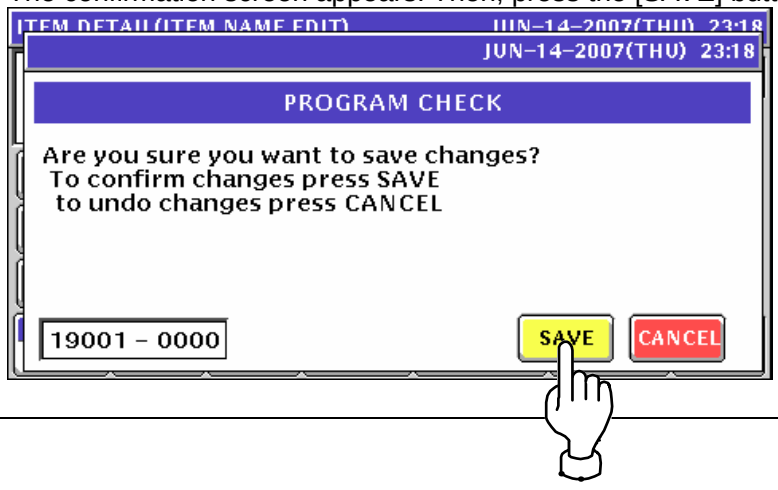
1. Confirm that the text edit screen for a desired PLU is displayed.

2. To delete the character line, press the [Line Delete] key on the key sheet.



3. Press the [ESC] key on the key sheet.

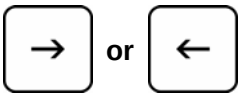
The confirmation screen appears. Then, press the [SAVE] button to save the data.

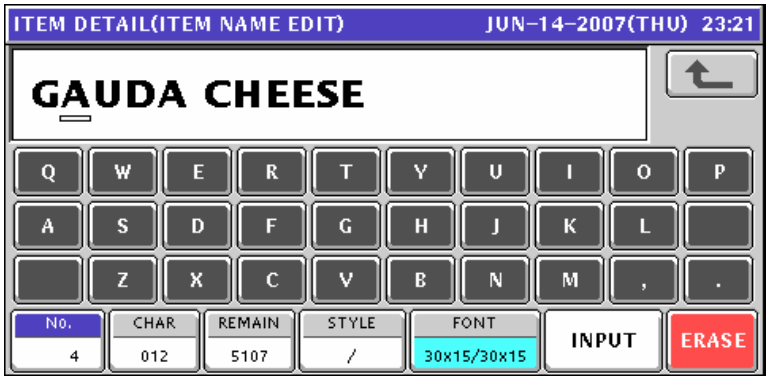


A.5 CHARACTER DELETION

1. To Make a correction for a misspelled word, move the cursor to a place where misspelling is made by using the [→] or [←] key.

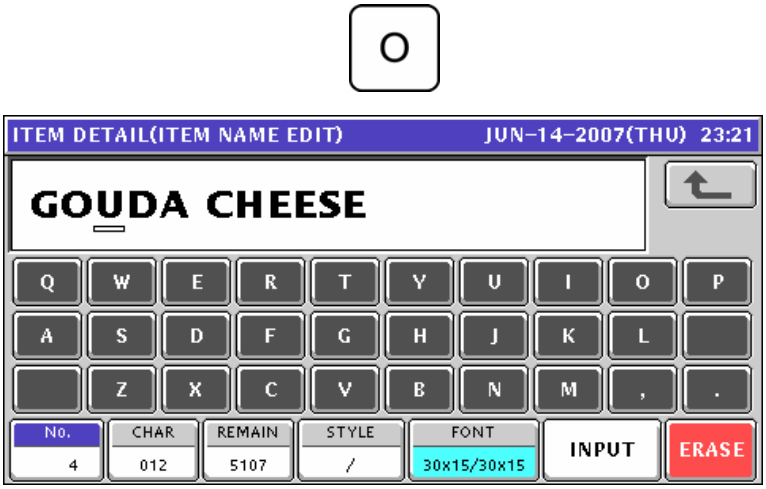
EXAMPLE "GAUDA" → "GOUDA"





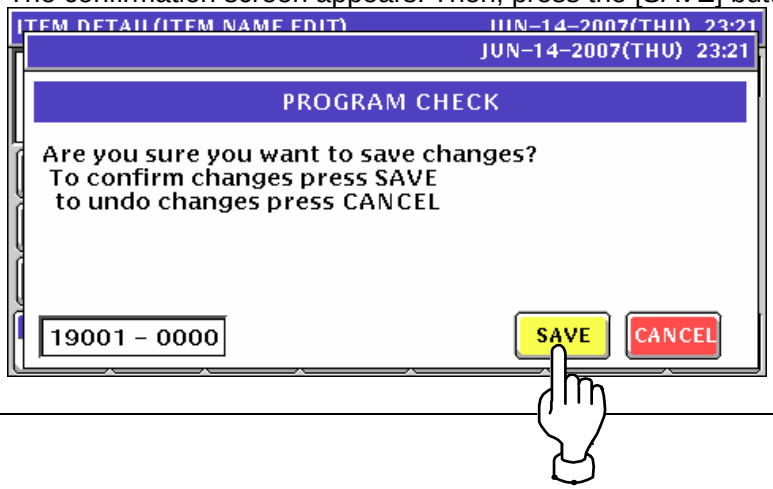
2. Press the [Character Delete] key on the key sheet to delete the misspelled character.

3. Enter the correct character using the alpha-numeric keys.



4. Press the [ESC] key on the key sheet.

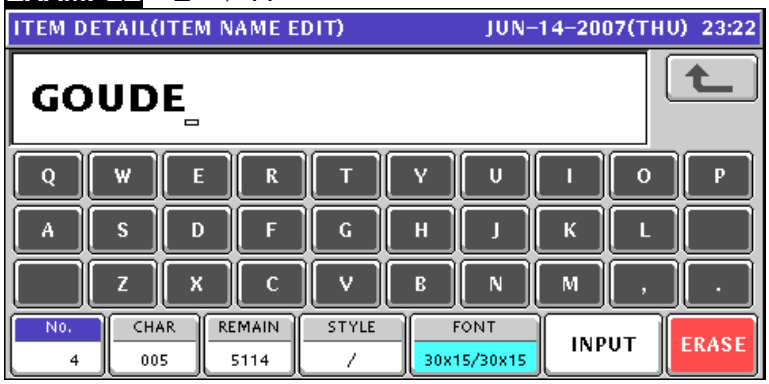
The confirmation screen appears. Then, press the [SAVE] button to save the data.

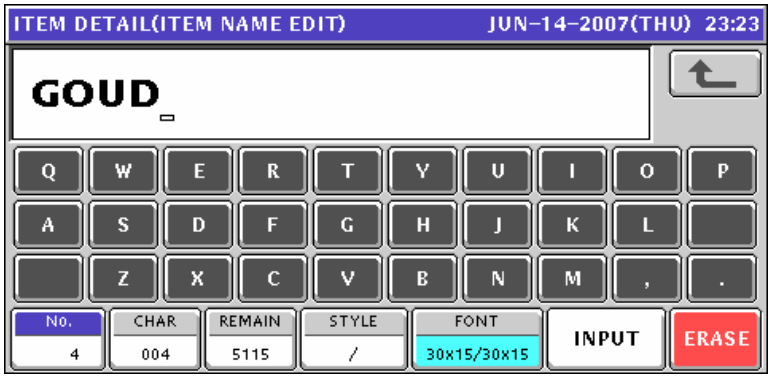


A.6 CHARACTER BACKSPACING

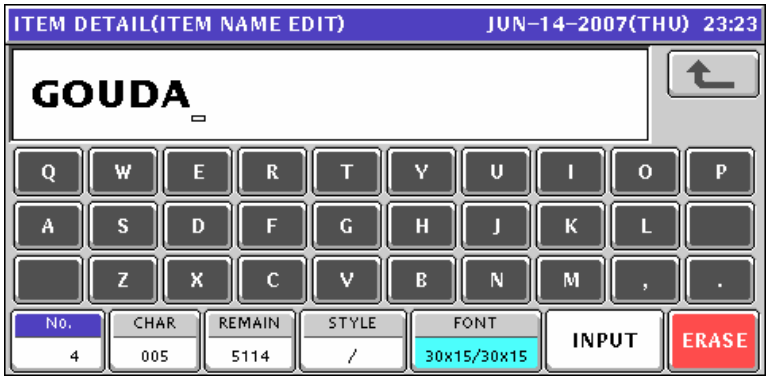
1. To delete a wrong character that was just entered, press the [Back Space] key on the key sheet to move the cursor back by one character.

EXAMPLE "E" → "A"

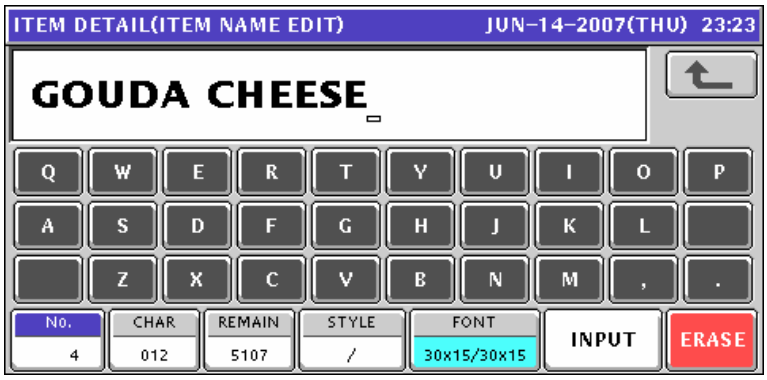




2. Enter a correct character.

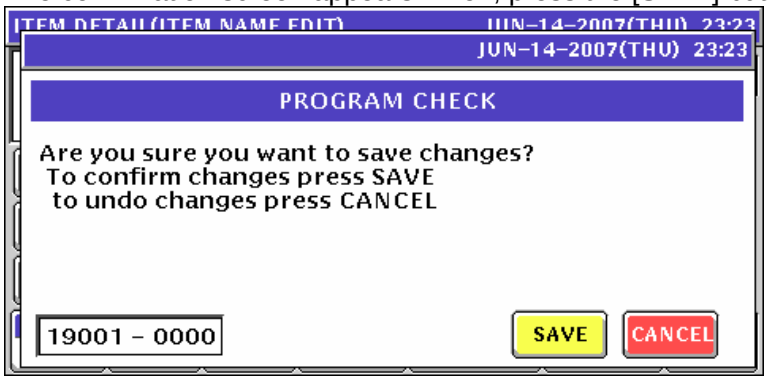


3. Complete the text.



4. Press the [ESC] key on the key sheet.

The confirmation screen appears. Then, press the [SAVE] button to save the data.



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