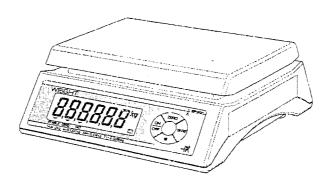


# **IPC Series (Asia)**

## Service Manual

The First Edition



## / WARNING

- 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.

This manual is for use by service personnel of our company or qualified to perform maintenance services for this machine. Use by anyone except the above personnel is not permitted.

### **OUTLINE**

#### • Purpose of this manual

This manual is edited for the authorized servicing personnel and used when carrying out services and maintenance of the machine.

#### · Relative manual

Refer to the operation manual for ususal operations.

#### • Symbols used in this manual

#### 1. Warning symbols

Symbol	Meaning
▲ DANGER	Indicates information that, if not avoided, is likely to result in loss of life or serious injury.
<b>∴</b> WARNING	Indicates information that, if not avoided, may result in loss of life or serious injury.
<b>⚠</b> CAUTION	Indicates information that, if not avoided, could result in relatively serious or minor injury, damage to the machine or faulty operation.

#### 2. Explanatory symbols

Symbol	Meaning
<u></u> NOTE	Indicates information to call or emphasize for attention to the note.
REFERENCE	Indicates the reference page.
INFORMATION	Indicates information to help understanding.

#### · Readers of this manual

This manual is edited for the servicing personnel. Use by other personnel is not permitted.

#### Note

This manual may be revised in accordance with modification when made in the machine. All rights are reserved. Copying any part of this manual is prohibited without our permission.

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## Chapter 1. Product Overview

### 1.1 Product Overview

- The IPC Series is a digital scale which can be operated with two batteries.
- The large LCD with 25mm height is provided for the display.

## 1.2 Standard Specifications

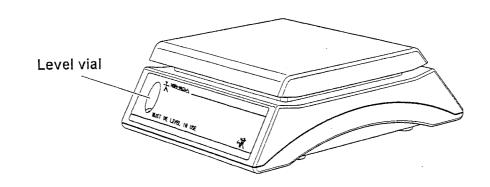
Item		Descr	iption				
	Smal	l size	Large	size			
Type name	IPC 3kg	IPC 6kg	IPC 15kg	IPC 30kg			
	3kg/1g	6kg/2g	15kg/5g	30kg/10g			
Weighing capacity	Single range	Single range	Single range	Single range			
	0.001kg	0.002kg	0.005kg	0.01kg			
Scale unit .	3.000kg/0.001kg	6.000kg/0.002kg	15.000kg/0.005kg	30.00kg/0.01kg			
Accuracy		1/3	000				
Weigh platter size	200mm(L)×	:230mm(W)	293mm(L)×	280mm(W)			
Display	L	CD type 6 digits (7seg	ments) Height: 25m	m			
Environment condition	Ambient temperature		Innection				
	Relative humidity: 80%RH (Max.), no condensation						
_	Two D-sized dry batteries or AC adaptor						
Power source	[Battery duration] Two alkaline D-sized batteries (Approximately 500 hours)						
Current consumption	1 WO alkaline D-sized		25mA				
Auto power off	Select: 60		minutes or non Auto	power off .			
Weight (excl. battery)				2kg			
Option	2.0kg 3.2kg  AC adaptor (Dealer Option)  -Output voltage  - 3.2 to 6.0VDC (current load at 25mA, or at IPC connection) (caution)  1. Output voltage must not exceed 6.0V even if power supply voltage is at +10%. 2. Output voltage exceeds 3.2V even if power supply voltage is at -15%.  - Generally, AC adaptor output voltage varies with load current. Confirm output voltage with a 25mA load current (IPC current)  - Output plug configuration/polarity  - Configuration Specification EIAJ RC-5320-2						
- Configuration Specification EIAJ RC-3320-2 - Polarity Center Plus							

## 1.3 Appearance

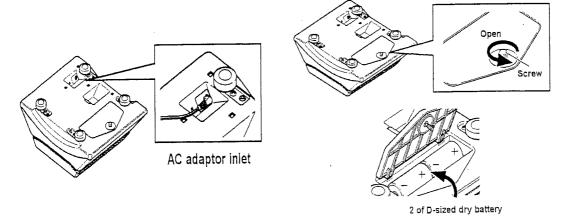
#### Front view



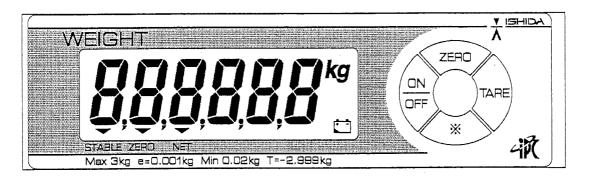
#### Rear view



#### Bottom view

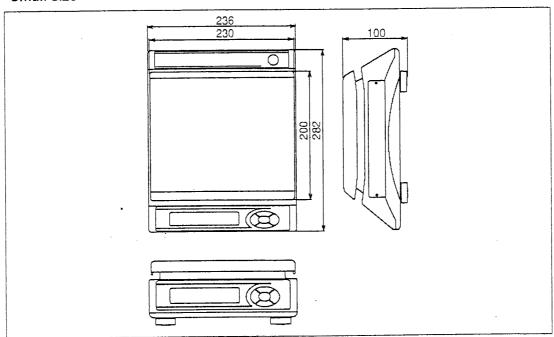


## 1.4 Operation Panel

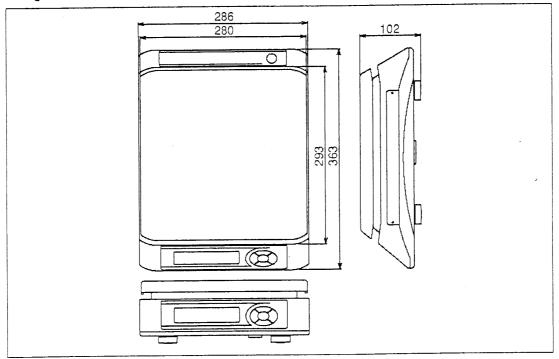


## 1.5 Outer Dimensions

### Small size



### Large size

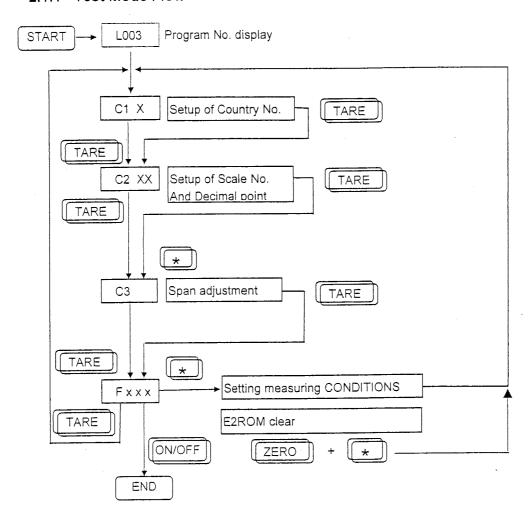


## Chapter 2 Test Mode

The Test Mode is used for diagnosis and/or setting at maintenance service.

### 2.1 Operation

#### 2.1.1 Test Mode Flow



**Note:** Press the memory switch at any time during test mode to record the data to the E2PROM. Then "P-EP" appears in the display.

## 2.1.2 Key Functions (when setting value)

Key		Function			
ZERO	ON OFF	- Use at TEST mode startup.  (Press this key while the TARE key is depressed.)  - Use at TEST mode end			
(ON )TARE	ZERO	- Use when selecting digits.			
W-F	TARE	- Press when fixing values after mode or data selection Increments values for each press during data change.			
	*	Press when entering C3 or F mode			
Memory Switch		(Tactile switch in the main circuit board) Stores E2ROM data set for each item of the C and F mode.  Main PCB PS-005 PS-005 Memory Switch Approval seal			

## 2.1.3 Starting Test Mode

Operation	Display
Press and release the ON/OFF key while the TARE key is depressed.	L003
2. Release the TARE key.	

## 2.1.4 Ending Test Mode

Operation	Display
C mode / F mode status	
Release the ON/OFF key after depressing for one second or more.	

## 2.1.5 Memory Switch

Operation	Display
1. C mode / F mode status	
2. Press the Memory Switch.	P-EP

## 2.1.6 C1 Mode – Country No. Setting

## 1) Country No. Table

Country No.											
1	2	3	4	5	6	7	Item	Data	Wei-	Digit	Bit
JAPAN	ASIA AUS	EU .	USA						ght	- 9	
0	0	0	0	0	1	0	Start range	0: ±10% 1: ±2%	1		DO
0	0	0	0	1	0	0	Zero point mark	0: Lights on at true zero 1: Lights on at Provisional zero	2	100	D1
1	0	0	0	1	0	0	Below true zero indication	0: "" 1: Negative value	4		D2
0	0	0	0	1	.0	1	Cleaning tare weight by pressing ZERO key	0: No 1: Yes	8	8	
0	0	1	0	0	1	0	Decimal point Indicator	0: "." 1: ","	1		D4
0	0	0	1	0	0	. 0	Over-scale indication	0: BLANK 1: "OL"	2	10 <sup>1</sup>	D5
0	0	0	0	1	0	1	Tare subtraction  0: Possible 1: Not possible		4		D6
0	0	0	0	0	0	0	Reserve		8		D7
0	0	0	0	0	0	0	Stabilized, re-stabilized frequency	0: 5 times. 1: 8 times.	1		D8
0	0	0	0	0	0	0	Re-stabilization Starting range	0: 2 times over 1: 4 times over	2	10 <sup>2</sup>	D9
0	0	0	0	0	0	0	Stabilized/re- stabilized range	0: 3 times 1: 5 times	4		D10
1	0	0	0	0	0	0	Section 0: No adjustment 1: Yes (JAPAN)		8	8	
804	000	010	020	04E	011	048	Display of F mode	e Measurement Co	l Indition		

### 2) Operation

	Operation	Display
1.	Stating Test	
2.	Setup of Country No.	
	- To select the No., use the [ * ] key - Example: ASIA=2	
3.	When the C2 mode is then required, press the TARE key.	
	- When finishing, press the Memory Switch to record the data to the memory, and enter the Ending Test Mode.	P-EP

## 2.1.7 C2 Mode - Scale No. and Decimal point Setting

### 1) Scale No.[X1] Table

X1		Specifications		A/D Counts
1	3kg (2g/1g)	Multi interval	30000 (20/10)	
2	6kg (5g/2g)	Multi interval		30000 (25/10)
3	15kg (10g/5g)	Multi interval		30000 (20/10)
4	30kg (20g/10g)	Multi interval		30000 (20/10)
5	3kg (1g)	Single range		30000 (10)
6	6kg (2g)	Single range		30000 (10)
7	15kg (5g)	Single range		30000 (10)
8	30kg (10g)	Single range		30000 (10)
9	6lb (0.005lb/0.002	2lb) / 3kg (2g/1g)	Multi interval lb/kg	30000 (25/10) / 30000 (20/10)
Α	15lb (0.01lb/0.005	5lb) / 6kg (5g/2g)	Multi interval lb/kg	30000 (20/10) / 30000 (25/10)
В	30lb (0.02lb/0.01l	b) / 15kg (10g/5g)	Multi interval lb/kg	30000(20/10) / 30000 (20/10)
С	60lb (0.05lb/0.02l	b) / 30kg (20g/10g)	Multi interval lb/kg	30000(25/10) / 30000 (20/10)
D	100oz (0.1oz/0.05	5oz)	Multi interval oz	20000 (20/10)

## 2) Decimal point indication [ X2 ] Table

X2	Display
1	"0"
2	"0.0"
3	"0.00"
4	"0.000"

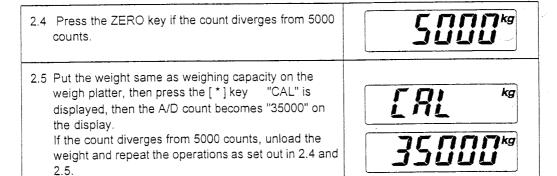
## 3) Operation

Operation	Display
1. Stating Test	
2. Scale No. and Decimal point indication mode - Press the [ TARE ] key ON (1st digit flashes) - Example: ASIA 3kg (1g) Single range X1=5, X2=4	[
2.1 Scale No. Setting - Press the [*] key ON four times (X1=5)	[2
2.2 Decimal point indication Setting - Press the [ ZERO ] key ON (2 <sup>nd</sup> digit flashes)	[2 15 x2 x1
- Press the [*] key ON three times (X2=4)	<b>12 45</b> x2 x1
- When the C3 mode is required, press the TARE key.	
- When finishing, press the O Memory Switch to record the data to the memory, and enter the Ending Test Mode.	P-EP

## 2.1.8 C3 Mode – Span Adjustment

### 1) Operation

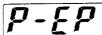
Operation	Display
1. Stating Test	
Span Adjustment mode     The state of the TARE key ON for two times.	
2.2 Press the [*] key ON displays original A/D data (The normal range for original A/D data is 1000 to 25000 counts).	[ 13022
2.3 Press the [*] key ON with zero load on the weigh platter → Approx. 5000 count is diplayed.	50 10 kg



2.6 When the C3 mode is required, press the TARE key.



When finishing, press the Memory Switch to record the data to the memory, and enter the Ending Test Mode.



\_\_\_NOTE

- "CAL" operation can not be performed unless zero-point adjustment is finished.
- "CAL" operation can not be performed unless the original A/D value exceeds 33300 counts when the weight is loaded.

## 2.1.9 F Mode - Setting measuring conditions and E2ROM clear

**NOTE** 

- All data has been fixed according to country specifications.
- Altering data may not conform to weighing and measuring tests for a country.



 See 1.6 "C1 Mode-Country No. Setting" for Measurement Conditions Setup Table.

#### 1) Operation

1. Stating Test		
<ul><li>2. Setting measuring conditions</li><li>2.1 Press the TARE key for three times</li></ul>	F	000
2.2 Press the [*] key The least significant digit blink Whenever the [*] key is pressed, the required digit selected.	can be	888
2.3 Whenever the [*] key is pressed, the figure of t which has blinked does the increment.	he digit	88 /

12/28

		<del></del>		
3. E2ROM clear				
Any sce	ene of F mode is possible.	·		
3.1 Press the displayed	ZERO key and [*] key. "EP-C" then "C1-1" is	<b>EP-</b> [		
<u> </u>	At this point, writing in E2ROM of change data in F mode and the default value to E2ROM clear has not been cpmlpeted. Push the memory switch.			
<u></u> NOTE	E2ROM clear initializes Country No., Scale No., Zero, and Span adjustment values. It is necessary to set it again.			
4. Writing in	n E2ROM ne memory switch to memorize data.	P-EP		
After E2ROM is cleared, if writing is performed in E2ROM without setting Country No., Scale No. nor Zero/Span adjustment value, and the power is turned on, "Err1" is displayed and it is not possible to use the machine. Set C1, C2, and C3 again.		Err!		

### Data after E2ROM is cleared

Mode Data Item					
C1	1	JAPAN			
C2	11	Scale No.= 3kg (2g/1g) Multi interval	Decimal point indication= " 0"		
C3		Zero point and span adjustment value and each approximate value			
F	804	Measurement condition			

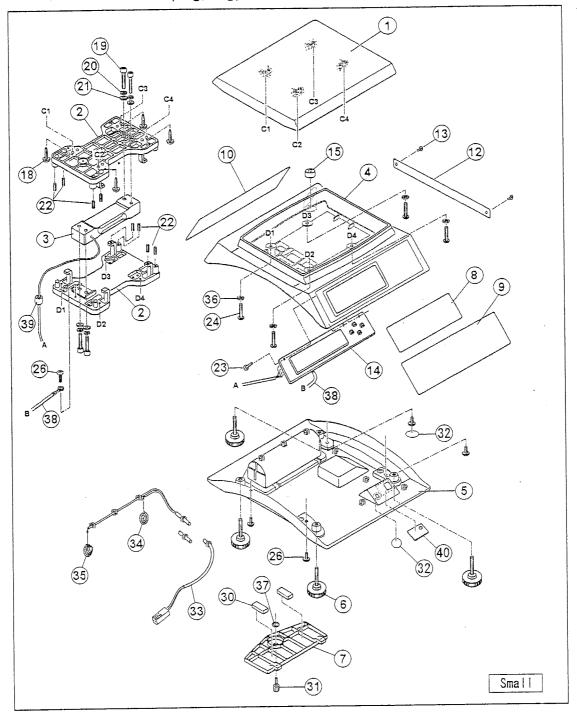
### 2.1.10 Error No. List

Error No.	Mode	ltem .
Err1	At power ON	E2PROM unsetting or garbled data
Err2	At power ON	Outside start range
Err3	Test mode	Outside range where zero point can be adjusted (original A/D 1000 count or less)
Err4	Test mode	(Original A/D 25000 count or more)
Err5 Test mode Outside span adjustment possible range (control or more)		Outside span adjustment possible range (original A/D 33300 count or more)
Err6	Normal mode	Original A/D zero count or less

## Chapter 3 Hardware Configuration

## 3.1 Mechanisms

## 3.1.1 Small Size (3kg, 6kg)

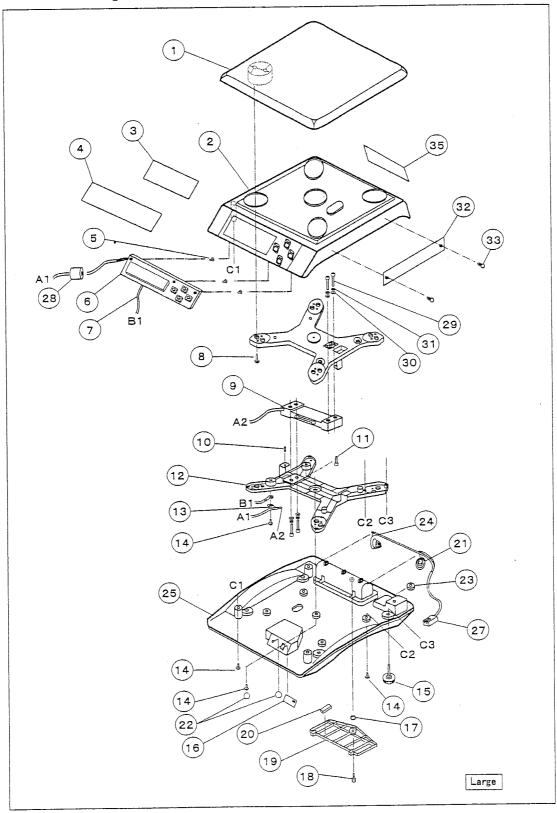


IPC 3kg 6kg Single Display Asia Service Parts List

No.	Parts Name	Weighing Capacity	Qty
1	PLATTER		1
2	PLATE: SUPPORT		2
3	LOAD CELL (CZL-6D-C3-5kg-1000)	3kg	1
3	LOAD CELL (CZL-6D-C3-10kg-1000)	6kg	1
4	CASE		1
5	BASE		1
6	FOOT: LEVEL		4
7	BATTERY: COVER		1
8	LUCENT: PLATE		1
9	SHEET: DISPLAY: FRONT	3kg	1
9	SHEET: DISPLAY: FRONT	6kg	1
10:	SHEET: DISPLAY: REAR		1
11	SLEEVE		4
12	NAME PLATE: SPEC	3kg	1
12	NAME PLATE: SPEC	6kg	1
13	PUSH RIVET		2
14	PWB PS-005A		11
15	LEVEL UNIT		1
18	SCREW ST 4 x 14		4
19	SCREW M6×25		4
20	WASHER 6		4
21	SPRING WASHER 6		4
22	SCREW M4x12		8
23	SCREW ST3 x 8	·	3
24	SCREW M 5 x 16		4
26	SCREW M4×10		5
27	SCREW ST 4 x 10		2
30	CUSHIÖN BATTERY		2
31	SCREW M 4 x 12		1
32	SHEET		2
33	BATTERY HARNESS		1
34	SPRING 1		1
35	SPRING 2		1
36	WASHER 5		4
37	E: RING 3		1
38	PRINTER GND CORD		1
39	FILTER		1
40	PROTECT:SHEET		1

Note: Parts number may change without notice due to product improvement.

## 3.1.2 Large Size (15kg z30kg)



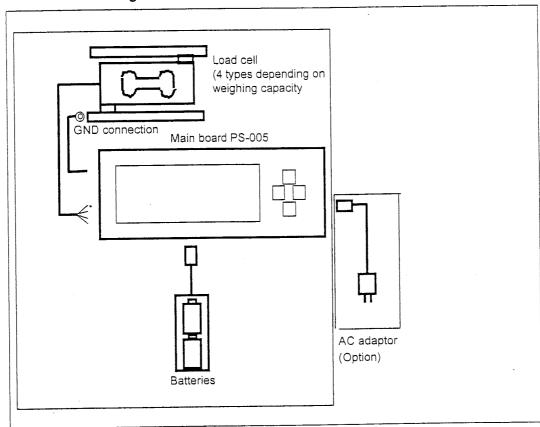
IPC 15kg,30kg Single Display Asia Service Parts List

No.	Parts Name	Weighing Capacity	Q'ty
1	PLATTER		1
2	CASE		1
3	LUCENT: PLATE		1
4	SHEET: DISPLAY: FRONT	15kg	1
4	SHEET: DISPLAY: FRONT	30kg	1
5	SCREW ST 3 x 8		3
6	PWB PS-005A		. 1
7	PRINTER GND CORD		1
8	SCREW ST 4 x 14		4
9	LOAD CELL (CZL-6D-C3-25kg-1000)	15kg	1
9	LOAD CELL (CZL-6D-C3-50kg-1000)	30kg	1
10	SCREW M 4 x 12		2
11	SCREW M 5 x 25		. 4
12	PLATE: SUPPORT		2
13	PLATE: A: COVER		1
14	SCREW M 4 x 10		9
15	FOOT: LEVEL		4
16	PROTECT: SHEET		1
17	E: RING 3	·	1
18	SCREW M 4 G12		1
19	BATTERY: COVER		1
20	CUSHION BATTERY		2
21	SPRING 1		1
22	SHEET		1
23	LEVEL UNIT		11
24	SPRING 2		1
25	BASE		1
27	BATTERY HARNESS		1
28	FILTER: CORE		1 .
29	SCREW M6x25		4
30	WASHER 6		4
31	SPRING WASHER 6		4
32	NAME PLATE: SPEC	15kg	1
32	NAME PLATE: SPEC	30kg	1
33	PUSH RIVET		. 2
35	SHEET: DISPLAY:REAR		11

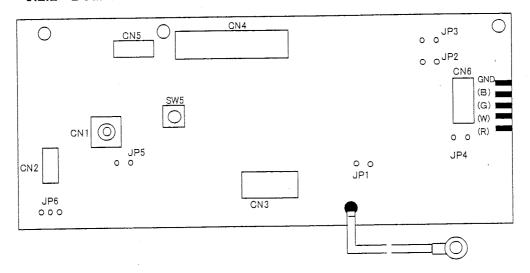
Note: Parts number may change without notice due to product improvement.

### 3.2 Electric Concerns

### 3.2.1 Block Diagram



## 3.2.2 Board PS-005



#### Connector

CN1: AC adaptor input

Pin No.	Function	Remarks
2	AC adaptor power source	DC 2.4 to-6.0V
3 GND (Circuit)		
4	GND (Battery)	

CN2: Battery input

Pin No.	Function	Remarks
1	GND (Battery)	
2	Battery power source	DC 2.2 to 3.2V

CN3: Not used

CN4: LCD display data output

CN5: Not used

CN6: Load cell input

Pin No.	Soldering land	Function	Remarks
1	(R)	Vcc	DC5v
2	(W)	GND	GND
3	(G)	IN+	Approx 2.5v
4	(B)	IN-	Approx 2.5v
5	GND	GND	GND

#### Jumper

JP1: Ferrite cut

JP2: Ferrite cut

JP3: Ferrite cut

JP4: Ferrite cut

JP5: Battery GN and Circuitry GND

JP6: Filter cut

#### Switch

SW5: E2ROM Memory switch

## Chapter 4 Maintenance

### 4.1 Disassembly Procedure (Small Size: 3kg • 6kg)

**⚠** NOTE

The seal restricts the peel according to the country by a no report and doing as wanting put it. Follow the relevant procedure for the respective countries.

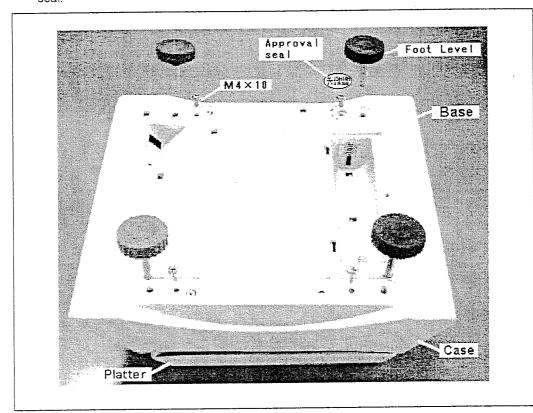
#### 4.1.1 Base Replacement

#### Disassembly procedure

- 1. Remove dry batteries when using batteries. Remove the AC adaptor when using the AC adaptor.
- 2. Remove four foot levels.
- 3. Peel off the approval seal.
- 4. Remove the four M4×10 screws.
- 5. Lift the base, and pull out the battery harness from CN2 of main board PS-005.

#### Assembly procedure

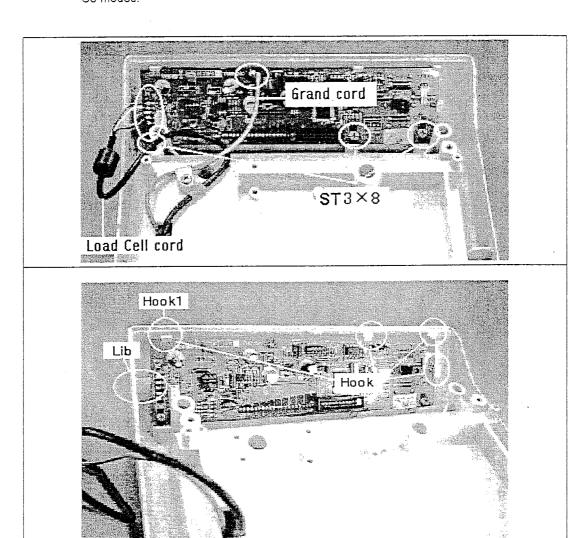
- 1. Perform in reverse order to disassembly.
- 2. The approval seal material is a void seal. It is not possible to use it again. Use a new approval



#### 4.1.2 Board Replacement

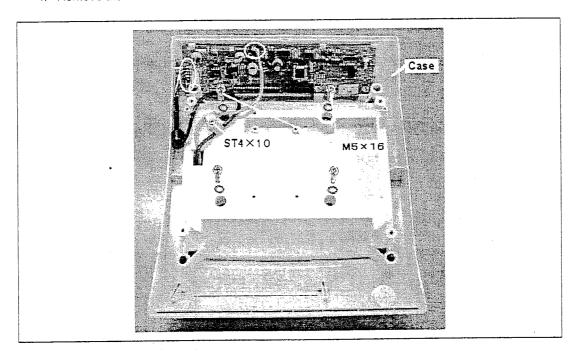
- 1. Remove the load cell cable and grand cable using the soldering iron.
- 2. Remove the three ST3×8 screws where the board is fixed.
- 3. The board is fixed with four hooks and one lib as shown in the photo.

  Press down the place shown by the arrow while pulling towards yourself, then remove the hook 1 by sliding the entire board to the left and out.
- 4. Perform in reverse order for assembly.
- 5. Then, install the base.
- 6. Install dry batteries, clear E2ROM, and perform settings and span adjustment in C1, C2, and C3 modes.

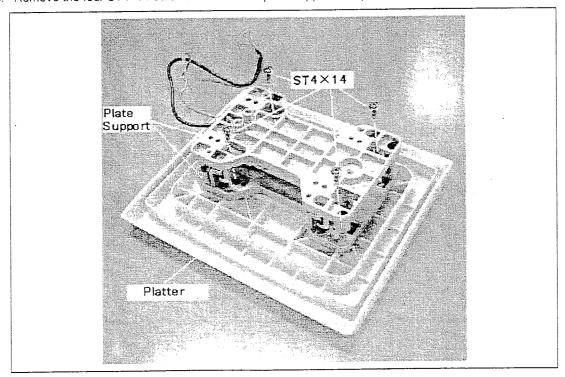


### 4.1.3 Load Cell Replacement

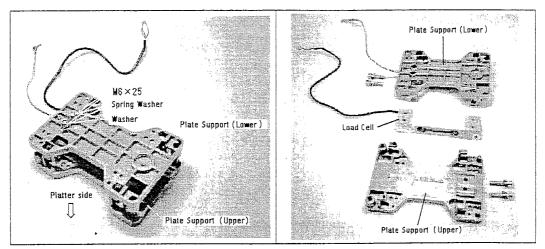
- 1. Remove the load cell cable and ground cable by using the soldering iron.
- 2. Remove the ST4×10 screw which fixes the cable clamp.
- 3. Remove the four M5×16 screws which fixe the plate support at four case locations.
- 4. Remove the case.



5. Remove the four ST4×14 screws which fix the plate support and platter.

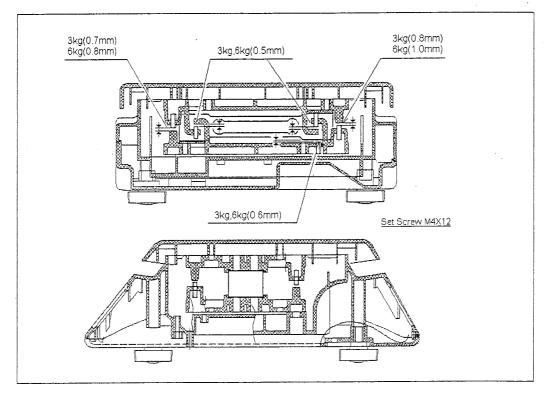


6. Remove the M6×25 hexagonal bolts, spring washers and flat washers, which fix the plate support and load cell in two locations both above and under.



- 7. Fix a new load cell and fix in four locations on the upper and lower plate support with flat washers, spring washers, and M6×25 hexagonal bolts order.
  The direction of load cell installation should be carried out on the lower plate support on the cell cable side.
- 8. Confirm whether each cell limit space in the 8-location set screws is within a specified value.

  Adjust by turning the set screws to the regulations value, and apply the screw lock agent if differing from a specified value.



9. Start the test mode, and perform the C3 mode span adjustment.

## 4.2 Assembly Procedure (Large Size: 15kg • 30kg)

#### 4.2.1 Base Replacement

**⚠** NOTE

The seal restricts the peel according to the country by a no report and doing as wanting put it.

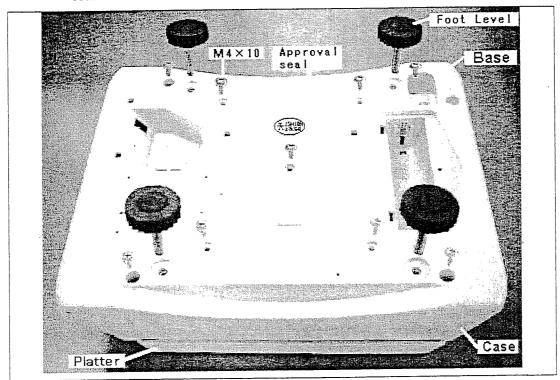
Do the procedure in a pertinent country.

#### Disassembly procedure

- 1. Remove two dry batteries when using the batteries. Remove the AC adaptor when using the AC adaptor.
- 2. Remove the four foot levels.
- 3. Peel off the approval seal.
- 4. Remove the four M4×10 screws.
- 5. Lift the base, and pull out the battery harness from CN2 of the main board PS-005.

#### Assembly procedure

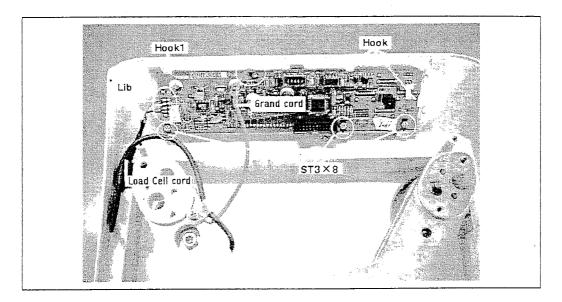
- 1. Do in the reverse order for assembly.
- 2. The material of approval seal is void seal. It is not possible to use it again. Put a new approval seal.



#### 4.2.2 Board Replacement

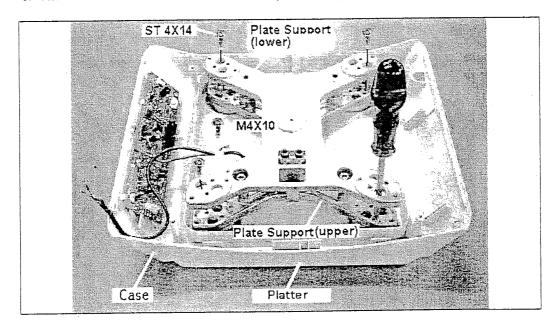
- 1. Remove the load cell cable and ground cable by using the soldering iron.
- 2. Remove the three ST3×8 screws where the board is fixed.
- 3. The board is fixed with the four hooks and one lib as shown in the photo.

  Press down the place shown by the arrow, while pulling towards yourself, then remove the hook 1 by sliding the entire board to the left and out.
- 4. Do in the reverse order for assembly.
- 5. Then, install the base.
- 6. Install the two dry batteries, clear E2ROM, and perform settings and span adjustment in C1, C2, and C3 modes.

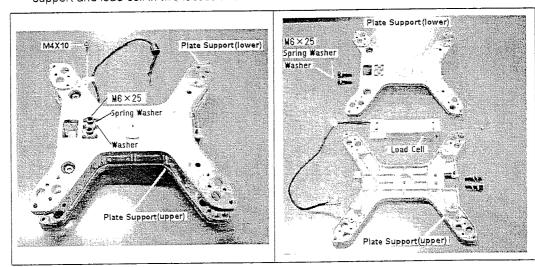


#### 4.2.3 Load Cell Replacement

- 1. Remove the load cell cable using the soldering iron.
- 2. Remove the M4×10 screw which fixes the cable clamp, then remove the ground cable and load cell cable.
- 3. Remove the four ST4×16 screws where the platter and plate support are fixed.

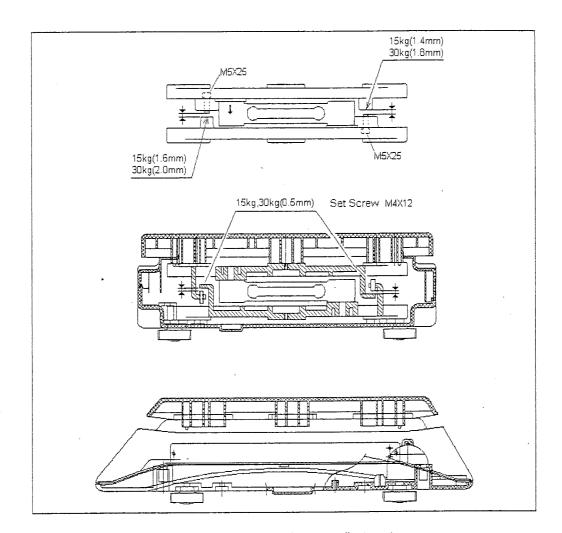


4. Remove the M6×25 hexagonal bolts, spring washers and flat washers, which fix the plate support and load cell in two locations both above and under.



- 5. Fix a new load cell and fix in four locations on the upper and lower plate support with flat washers, spring washers, and M6×25 hexagonal bolts order.

  The direction of load cell installation should be carried out on the lower plate support on the cell cable side.
- 6. Confirm whether each cell limit space in the 8-location set screws is within a specified value. Adjust by turning the set screws to the regulations value, and apply the screw lock agent if differing from a specified value.



7. Start the test mode, and perform the C3 mode span adjustment.

## 4.3 Troubleshooting

Symptom	Cause	Measure —		
1. The display check does not	1. Trouble of dry battery power	Check and replace dry batteries		
start when the power switch is pushed.	supply system	Confirmation and exchange of battery harness		
	2. AC adaptor trouble	Check output voltage (DC2.4-6.0V) and replace AC adaptor		
	3. Main board trouble	Replace the main borad PS-005A.		
2. Power ON Display check "Err1"	Garbled E2ROM data or initialized state.	Initialize, perform C1, and C2 and C3 settings, then push the memory switch.		
	2. Main board PS-005A trouble	Replace the main board PS-005A.		
Power ON Display check "Err2"	Outside weight value start range	Check if anything is placed on the platter. If so, remove it.		
		Replace the load cell.		
		Replace the main board PS-005A.		
Power ON Display check     "0"kg does not appear on the display.	Weight value is unstable.	Check if something comes in contact with the platter. If so, remove it.		
		Check if there is wind or vibration near the machine. If so, avoid these.		
		Replace the main board PS-005A.		
		Replace the load cell.		
·5. Weight varies at four corners.	External or load cell trouble	Check if the horizontal state is being kept.		
		Check if there is foreign article between the platter and the case.		
		Check if space of limit adjustment screw is narrow		
		Replace the load cell.		
The ZERO or TARE key does not function.	Outside of zero-adjustment or tare subtraction range	Check that zero-adjustment or tare subtraction is within the specified range.		
	2. Weight value is unstable.	Check if something comes in contact with the platter. If so, remove it.		
		Check if there is wind or vibration near the machine. If so, avoid these.		
		Replace the main board PS-005A.		
		Replace the load cell.		
7. The power supply cuts when time passes.	1. Auto power OFF setting.	Check if the auto power OFF function works.		
,		Default is 60 minutes.		
	2. Main board PS-005A trouble	Replace the main board PS-005A.		

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