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## [PRECAUTIONS]

The scale or indicator should always be used in an environment which is free from excessive air currents, corrosives, vibrations, temperatures and humidity extremes. These factors will affect displayed weight readings.

#### DO NOT use the scale or indicator

Next to open windows or doors causing drafts or rapid temperatures changes! An operating temperature between 0 ~ 40 degree Celsius is recommended. Near air conditioning or heat ventilations! Near vibrating, rotating or reciprocating equipment! Near magnetic fields or equipment that generates magnetic fields! On a rough work surface!

#### Leveling the scale

(when the indicator is connected to a platform)

Always adjust the scale to a level position with level adjusters until the bubbles appear in the center circle of the level indicator!

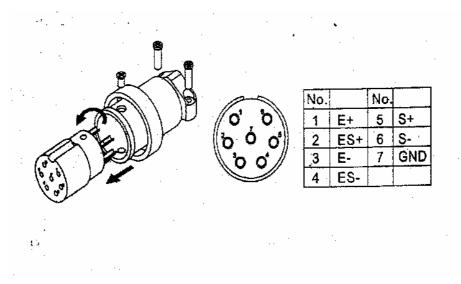
#### **Battery**

Recharged the battery whenever the symbol is flashing; this indicates that battery level is low. Charge the battery with the DC 9V / 1A adaptor supplied with the indicator. And when the battery is charging, the LED is red and when is fully charged the LED turns green. (it takes approximately 6 hours to charge battery completely)

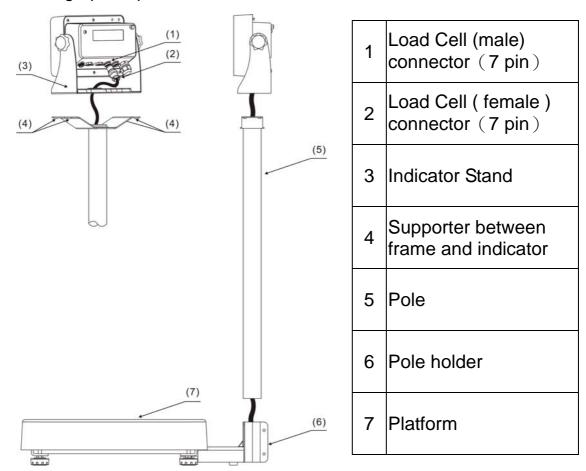
#### [INSTALLATION]

#### Load Cell connections

7 pin Load Cell connections



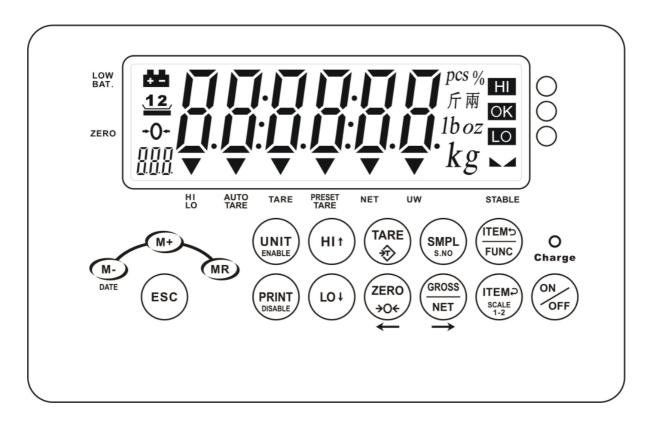
Setting up the platform



# Assemble the scale by the following steps (refer to the diagram above)

- 1. Pull the load cell cable through pole holder (6) and upwards. Install pole (6) into the pole holder (5), and fix the pole with cross-headed screws.
- 2. Pull load cell cable through indicator supporter (4) to connect to the indicator.
- 3. Install Indicator supporter (4) and indicator stand (3) together.
- 4. Adjust the indicator to adequate viewing angle and tighten the screws located on each side of the Indicator.

#### LCD display and function of each key



#### LCD display and explanation

LCD display	Explanation
kg	Weighing unit in Kilograms or Grams unit
-0-	" ZERO " sign
	Stable sign when the weight reading is stable
pcs	Piece counting function
%	Percentage function
▼	Indication sign for insufficient unit weight, net weight, tare, pre-tare, Hi-Lo limits
	Operation message display
HI OK LO	HI, OK and LO limits indication
斤雨 1b oz	Additional weighing units
66	Battery Power is weak

#### Explanation of each key

Posit ion	keys	Main function	Secondary functions
	ON	Turns the indicator on or off	
1	M- DATE	To delete the accumulation weights or certain number of accumulated weight	<ol> <li>Change the digit when in parameter mode (decreased)</li> <li>Change the number when in HI-LO checking mode</li> <li>Setting of date &amp; time</li> </ol>
2	M+	Accumulation	<ol> <li>Change the digit when in parameter model (increased)</li> <li>Change the number when in</li> </ol>
			<ul> <li>HI-LO checking mode</li> <li>3. Press this key to enter the testing mode</li> <li>4. Change the setting of accumulation mode</li> </ul>

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			5. Press this key to set the maximum unit of accumulation
3	ESC	Escape from current mode/position	Press to escape from parameter mode without saving the changes
4	MR	Recall total accumulation weights or certain number of accumulated weights	1 Capacity / division setting
5	UNIT	Switch the weighing unit from one to another	<ol> <li>Enable auto tare function</li> <li>Enable HI-LO checking function</li> <li>Select the initial weighing unit and setting of the initial weighing unit</li> </ol>
6	PRINT DISABLE	Send the data stored in memory to printer or PC when pressed	<ol> <li>Disable auto tare function</li> <li>Disable HI-LO checking function</li> <li>Setting of print format</li> <li>Setting the space when in printing format mode (only forSH-24)</li> <li>Setting of printing mode</li> </ol>
7	HIT	Enter to HI-LO checking mode for HI Limit	<ol> <li>Change the digit when in parameter mode (increased) )</li> <li>Select the sampling amount in sampling mode (increased)</li> <li>Setting of serial number mode</li> </ol>
8	LOI	Enter to HI-LO checking mode for LO limit	
9		Tare	<ol> <li>To enter to pre-tare mode</li> <li>To enter to auto tare mode</li> <li>JIK-8 User Manual 7</li> </ol>

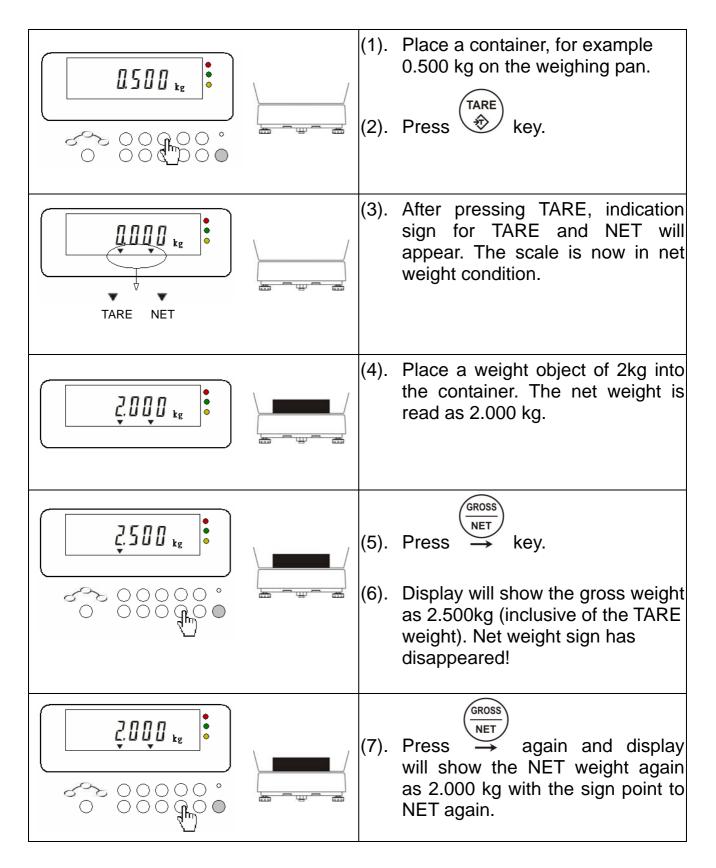
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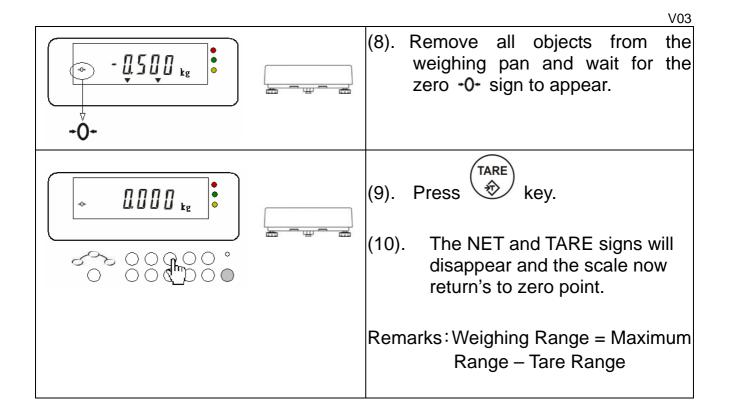
10	ZERO →O¢	Zero	<ol> <li>Select the initial unit</li> <li>Move the cursor to left when in parameter setting mode</li> </ol>
11	SMPL S.NO	Sampling average	<ol> <li>Setting of serial number mode</li> <li>Setting of maximum serial number</li> </ol>
12		Gross/Net Weight	1. Move the cursor to right when in parameter setting mode
13			<ol> <li>Selection of memory (increased)</li> <li>Enter to parameter mode</li> </ol>
14	ITEMP SCALE 1-2		1. Selection of memory (decreased) or switch key when connect to two platforms.

# [ ZERO ]

	<ul> <li>(1). The indicators zero point -0- sign is shown in the left diagram. When the display is at zero, this sign will appear.</li> </ul>
	<ul> <li>(2). Press to return to zero when the display is without the -0- sign.</li> </ul>
	(3). Now, the <b>-0-</b> sign appear and the scale is in zero point.
-Ö-	Remarks: The range of zero point is +/- 2% of the max capacity. Example : the zero range of 60kg is +/- 1.2kg

# [ TARE ]





### [ PRE-TARE ]



	(1). Under normal weighing mode, press for 3 seconds, display will show the pre-tare mode with first digit blinking. At the operation message display "上口"
	One can also switch from $Er \square \sim Er \Upsilon$ by press or $(TEM)^{SCALE}$ now.
	(2). Use $\overset{ZERO}{\leftarrow}$ or $\xrightarrow{BET}$ key to move the cursor to the desired digit for change. For example : $\underset{UUUkg}{UUUkg}$
	(3). Press (M+) key to change the digit in increasing manner and (M-) DATE key in decreasing manner. For example : 近近kg, number 5 will be blinking.
TARE PRESET NET	(4). Press key to complete one set of TARE data and return to normal weighing mode. Now the display will show -0500kg, arrow pointing to TARE, PRE-TARE and NET. Zero sign will appear on the display.

	V03
(5). Place the container(0.500 weight mass of 2.000kg weighing pan. The disp show 2.000kg, the zero s disappear and this 2.000 be the NET weight.	on the lay will sign will
(6). Press → key, now the will show 2.500kg, arrow p to NET disappear .This 2 will be the Gross Weight weight mass with the we container.	cointing 2.500kg t of the
<ul> <li>(7). Press → key once aga you will see the Net 2.000kg again.</li> </ul>	
(8). Remove the weight ma container, display show –0.500kg .	ss and will
(9). Press key, arrow ( to Net, Tare, Pre-Tare dis The scale return to weighing mode with the Ze appearing now.	appear. normal
Remark : Weighing Range : Range – Tare Range	= Max.

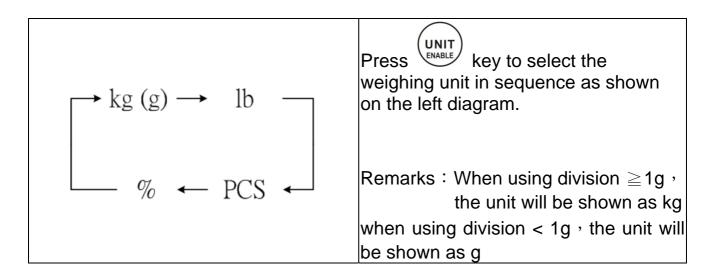
### [AUTO TARE]

#### Er@~Er¥ 5sets available

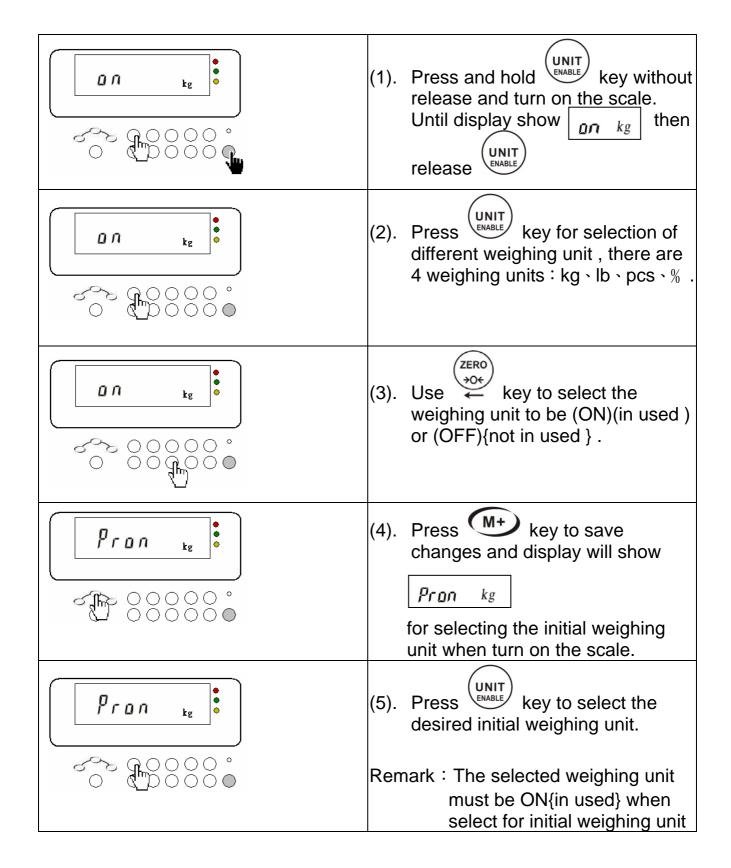
(1). Under normal weighing mode ,press $(H)^{H}$ , display enter to Hi / Lo setting mode. The H indication will appear on the top right corner .The operation message display show $"H^-U"$ . If instead a $"ErU"$ displayed, skip (2) and jump to (3).
<ul> <li>(2). Press key now and you may set the HI limit of Auto Tare . The  indication will appear on the top right corner .The operation message display show "上r □".</li> </ul>
One can also switch from $Er \square \sim Er \square$ by press or $r \square \sim Er \square$ now.
(3). Press $\xrightarrow{\text{GROSS}}$ or $\xleftarrow{\text{ZERO}}$ key to move the cursor to the desired digit for change. Exp: : $tro$
(4). Press $(M^+)$ key to change the digit in increasing manner and $(M^-)$ press $DATE$ key to change the digit in decreasing manner. For example : $(M^-)$ number 5 will be blinking .

(5). Press key now and you may set the LO limit of Auto Tare . The loo indication will appear on the right corner .The operation message display show "tru".
<ul> <li>(6). Repeat steps (3) (4), and complete the LO limit for Auto Tare. Exp: "CUUUg" .</li> </ul>
(7). Press key to save and return to normal weighing mode. The arrow pointing to Auto Tare will appear on the display.
(8). To cancel the Auto Tare function , press (HIT) or (LOT) key . The operation message display will show $\frac{L}{L}rx$ .
(9). Press key to confirm cancel the Auto Tare function and return to normal weighing mode.

### [ SELECTION OF WEIGHING UNIT ]



# [UNIT IN USE AND INITIAL WEIGHING UNIT SETTING ]



	(6). Press (M+) key to save changes and return to normal weighing mode.
--	---

V03

# [ ACCUMULATION ]

<ol> <li>Place an object on the p for the stable sign and pr key.</li> </ol>	
2). Display will show "ACC then the weight of the ob the operation message of you can see "	oject . At
<ul> <li>Remove the first object at the next object on the part object on the part of the</li></ul>	
4). The display will show " and the weight of the object. At the operation r display , you can see "	second nessage
5). Repeat procedures (3) ar for the desired accumulati	
6). Press (MR) key now, will show the weight of object. The operation r display at left will sho (flashing) ∘ For example are 10 accumulations , it v [ ]].	the last nessage w [ xx if there

	V03
	(7). Press (HIT) or (LOT) key now and you will see (7) (11) or (11) indicates all the 10 accumulations or the weight of the 9th object!
	(8). To delete accumulations, press Hit or tot key to recall the respective accumulation or all accumulation. For example: # 10 or [0].
	(9). Press DATE and when the display show $dEL - n$ (meaning to delete all the accumulations) or $dEL - n$ (to delete the respective accumulation) .Press DATE key
	to confirm delete (10). If all the accumulations are deleted, the display will return to normal weighing mode. When there is only one single accumulation that has been deleted, the small indication will blink and you need to press key to return to normal weighing mode. You can also repeat procedures(6)~(10) for deleting other accumulations. Remarks : Maximum number of accumulation is 99 units

•

### [ ACCUMULATION MODE ]

ΚΕΥ       ΚΕΥ       Γ	(1). Under normal weighing mode press (M+) key, display will show FEY. Operation message display will show FEL.	
	(2). Use Hit or Lot key to select the accumulation mode(please refer to chart below ).	
	(3). Press (M+) key to complete the setting and return to normal weighing mode.	
<ul> <li>Accumulation mode:</li> <li></li></ul>		
	is workable without enable the HI-LO	

# [ MAX ACCUMULATION SETTING ]

(1).	Press for 3 seconds, display will show $33$ (this is the default maximum number of accumulation). The upper right corner will show and the operation massage mode show "ACC".
(2).	Press $\overset{ZERO}{\leftarrow}$ or $\overset{GROSS}{\rightarrow}$ key to move the cursor to digit wish to be changed.
(3).	Use M+ or DATE key to change the maximum accumulations. For example setting to 20 maximum accumulations.
(4).	Press key to return to normal weighing mode.
(5).	When the accumulations reach 20 times, the internal alarm will beep and no more accumulations are allowed. The display will show ACC20 (flashing) as a signal indicating that maximum accumulations is reached (this function applied to all accumulation mode).

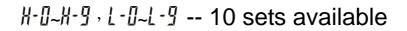
## [ SIMPLE COUNTING ]

(1). Press (UNIT) key to select the <b>pcs</b> as weighing unit.
<ul> <li>(2). Place the sampling quantity on the pan. (You can choose the sampling quantity as 10 \ 25 \ 50 \ 100 pcs only!)</li> </ul>
(3). Press (SMPL) key, display show the number of the sampling as 10 <b>pcs</b> (flashing) and the operation message display will show "[[[[]]]].".
<ul> <li>(4). Press (HIT) or (LOT) key to select the sampling quantity. For example, if you select 50pcs for sampling quantity. 50<i>pcs</i> (flashing) will be displayed on the screen.</li> </ul>
(5). Press key to complete the sampling procedures. Now the scale is ready for simple counting. Put the same objects on the pan for counting.
Remarks: If the sampling quantity's unit weight for 1pcs is ≦0.8 x division , indication of insufficient unit weight will point to <b>uw</b> .

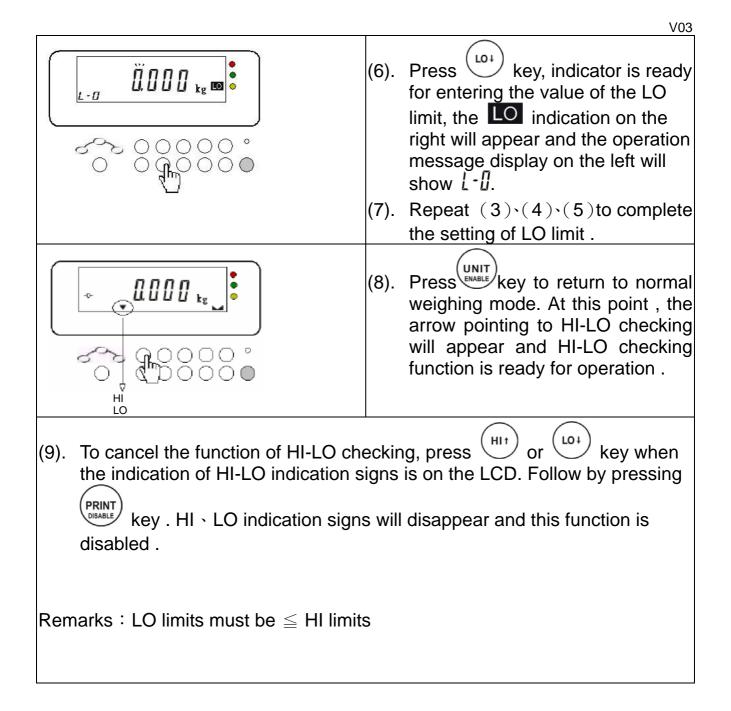
# [ PERCENTAGE % ]

	(1). Press key to select % as weighing unit .
	<ul> <li>(2). Place the sampling quantity on the pan.(You can choose the sampling quantity as 10   25  50 or 100 %)</li> </ul>
	(3). Press (SMPL s.NO key, display show the number of it as 10 % (flashing) and the operation message display will show "[[]]" indicate now is in sampling mode.
	(4). Press (HIT) or (LOT) key to select the sampling quantity. For example, if you select 50 % for sampling quantity; 50 % (flashing) will be displayed on the screen.
	(5). Press key to complete the sampling procedures. Now the scale is ready for percentage weighing. Put object on the pan for percentage weighing

#### [ HI / LO CHECKING ]



(1). Under normal weighing mode press Hit key, display enter to Hi / Lo setting mode. The Hi indication will appear on the top right corner .The operation message display show "H-II".
(2). If the operation message display does not show H-II, press key to make sure you can read H-IIat the operation message display.
<ul> <li>(3). press ← or → key move the cursor to the digit you want to change.</li> </ul>
(4). Press (M+) or (M-) enter the number. key to
(5). Repeat (3) (4) to complete the setting of HI limit .



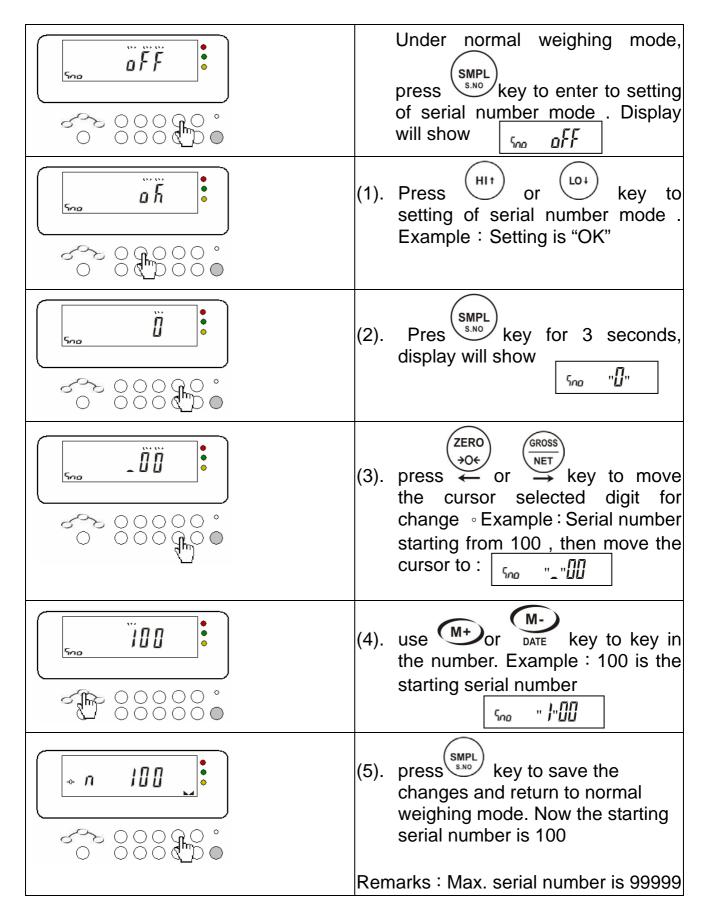
### [ SERIAL NUMBER ]

ĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨĨ	(1). Press (אשר swo) key display will show אין אין (flashing) and operation message display will show החם.
	(2). Press HIT or to select the desired serial number mode. Please refer to below diagram.
	(3). After select, press (SMPL) key to return to weighing mode, display will now show n l for serial number, except if the setting is in
<ul> <li>Mode of serial number :</li> <li>         aFF : No action .</li> <li>         SLRLE : The serial number plus 1 (+1) when the stable sign appear.     </li> </ul>	

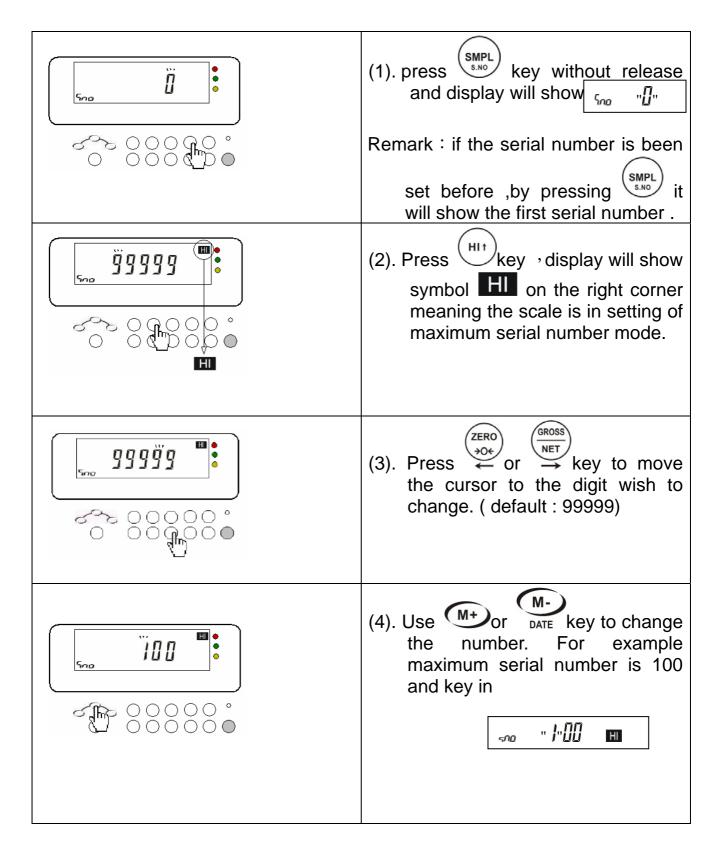
ьĥ	: Serial number plus 1 (+1) when the weight is in between
	HI –LO checking limits. This function is valid even if the HI-LO
	checking function is disabled

Stap : Pause! No adding of serial number but display will still show the last serial number when there is nothing on the pan.

## [ SERIES NUMBER SETTING ]

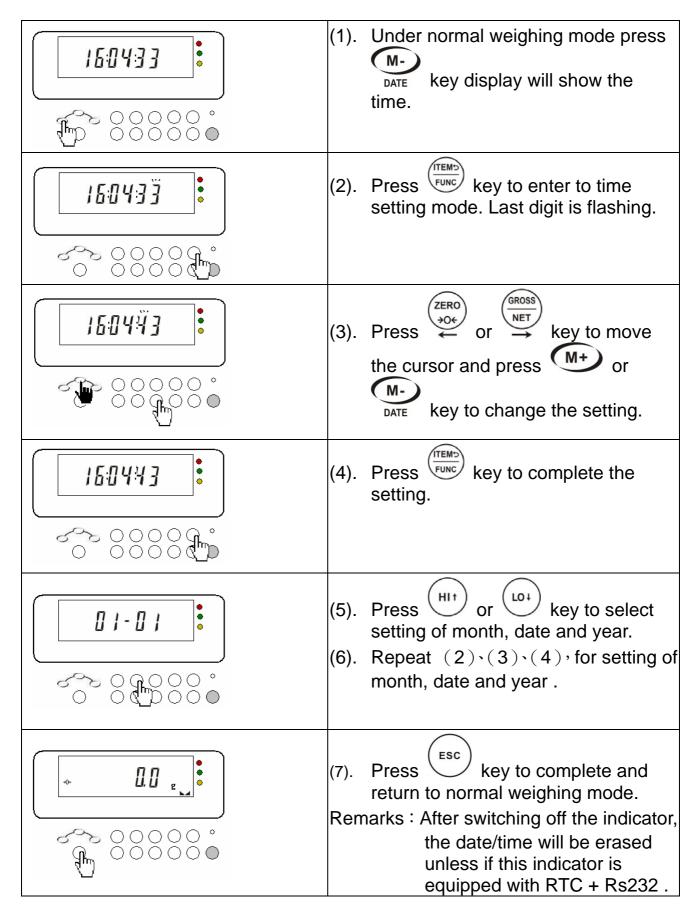


### [ MAX SERIAL NUMBER SETTING ]

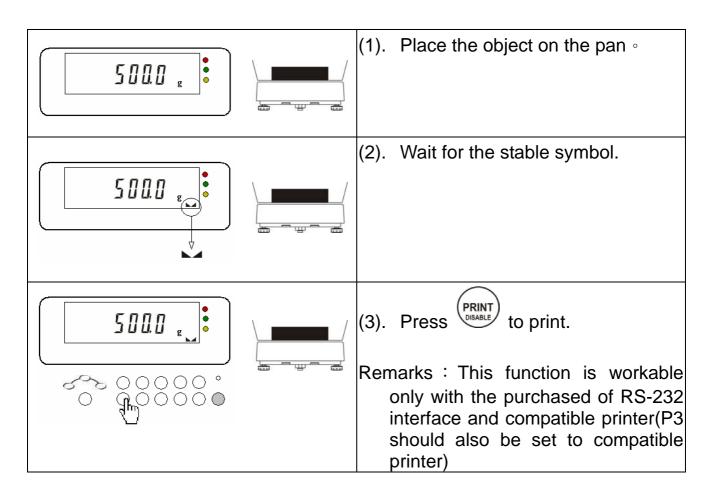


	(5). Press key to complete the setting and return to normal weighing mode. The operation message display will show the starting serial number.
	(6). When the serial number reaches the maximum serial number, it will restart from serial number 1 again.
Remark : max serial number mus	t > starting serial number

## [ TIME AND DATE SETTING ]

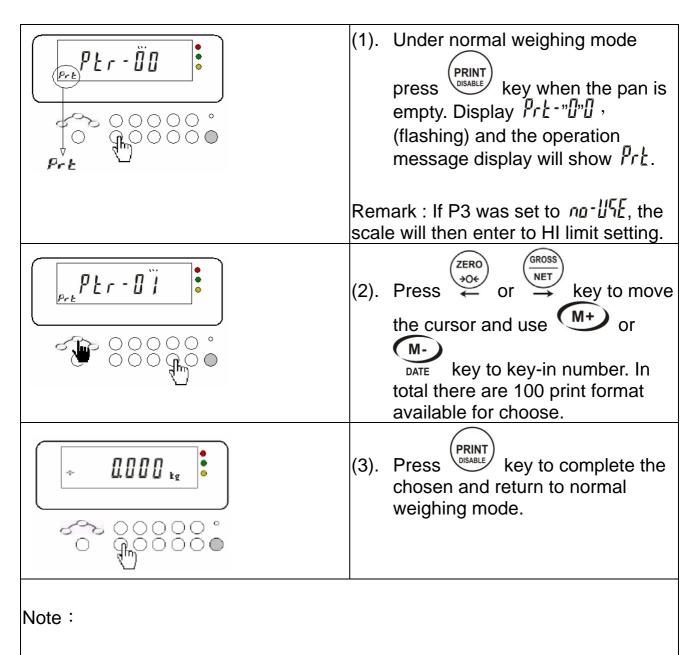


# [ PRINT ]



#### [ PRINTING FORMAT ]

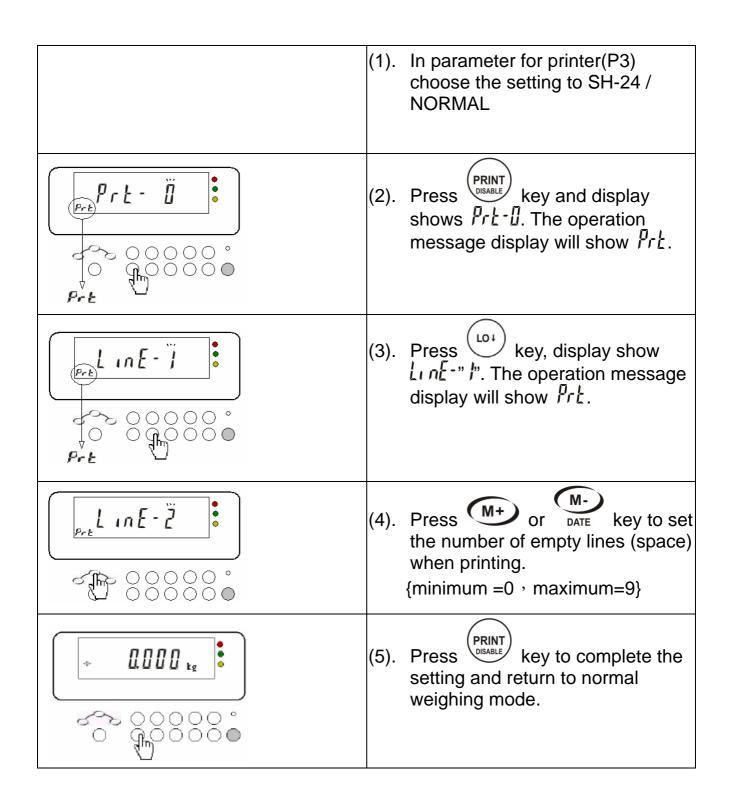
# This function is applicable only when the Parameter P3 - Printer Type is set to normal, SH-24, BP-443D or EZ-2P.



1. There are three options of printers available: SH-24 (dot-matrix printer), BP-443D (Label printer) or EZ-2P (Label printer).

#### [SPACE BETWEEN LINES WHEN PRINTING ]

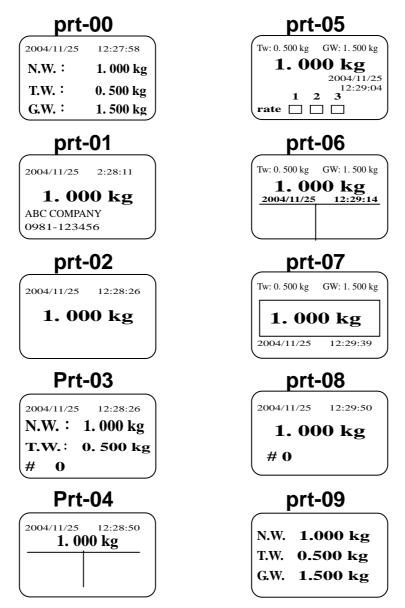
Only available for SH24 / normal



#### [PRINTING MODE ]

* This function is applicable only wh set to normal, SH-24, BP-443D or E2	nen the Parameter P3 - Printer Type is Z-2P.
PrE-ÖD PrE-ÖD PrE-E	(1). Press key. Display show
	(2). Press key. Display will show the printing mode . Example : TENDLE.
	(3). Use HIT or key to select the printing mode. (refer to the below mentioned chart)
	(4). Press (PRINT) key to save changes and return to normal weighing mode.
Display. הם : No action הבחבר : Print after stable syml	en connecting to PC or large LED

#### [ Samples of BP-443D / EZ-2P Printing Format]



\* 10 Print format are preset in printer by Manufacture \*

Note :

- Please contact your supplier/-dealer for additional EZ-2P & BP-443D print formats.
- (2) A memory card has to be installed in EZ-2P.(BP-443D memory card is standard)
- (3) The print formats are installed into the printers through PC. Please email your specific requirement to us and we will make the requested print format for you.

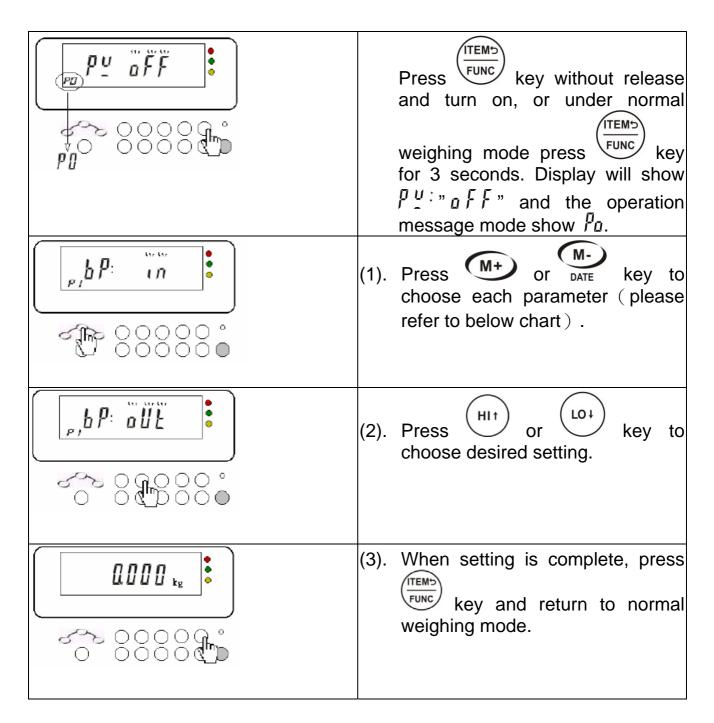
### [ Samples of SH-24 Printing Formats ]

		When RLL appear under display of accumulation,
Prt-00	0.379kg	press key the print-out will like as following.
Prt-01	2002/01/01 00:09:23 0.379kg	
Prt-02	#1 0.379kg	2002/01/01_00:09:23 (1) 0.100 kg (2) 0.100 kg
Prt-03	2002/01/01 00:09:23	(3) 0.100 kg
	#1 0.379kg	0.300 kg
Prt-04	N.W: 0.379 kg T.W: 0.100 kg G.W: 0.479 kg	0.300 kg
Prt-05	2002/01/01 00:09:23 N.W: 0.379 kg T.W: 0.100 kg G.W: 0.479 kg	
Prt-06	#1 N.W: 0.379 kg T.W: 0.100 kg G.W: 0.479 kg	
Prt-07	2002/01/01 00:09:23 #1 N.W: 0.379 kg T.W: 0.100 kg G.W: 0.479 kg	

Remark :

Without any commands, the printer are able to print format Prt00~Prt07 when connected to a parallel port printer.

### [ PARAMETER SETTING ]

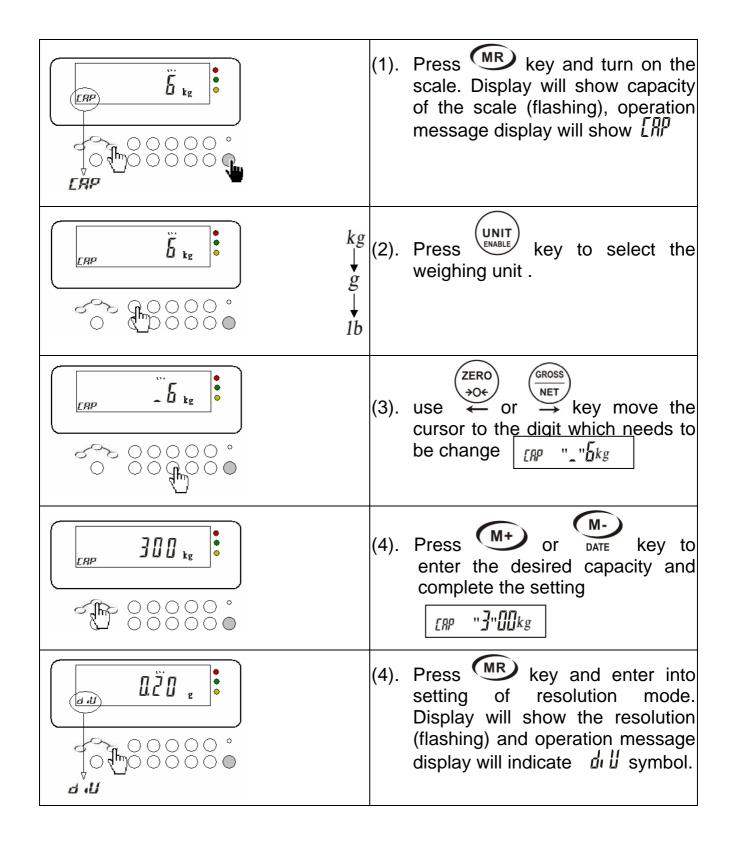


# [ PARAMETER ]

No	Function	Display	Detail
		oFF	Off (No action)
		5	5 minutes
PO	Auto Dower Off	Ш	10 minutes
FU	Auto Power Off (Weights > 20d)	30	30 minutes
		☆ <b>50</b>	60 minutes
		90	90 minutes
		Å IN	Scale : Enable the HI-LO checking functions , beeps when the range is
	Beeping	• • •	between HI & LO
	(The effect of this		Scale : Enable the HI-LO checking
P1	parameter is to	olik	functions, beeps when the range is out of HI & LO
		Ein	Option:Relay with light tower:beeps when the range is between HI & LO
		Eollt	Option : Relay with light tower : beeps when the range is out of HI & LO
		☆ oFF	No action of Hold
P2	HOLD (able to hold the displayed weight after load is remove)	מח	Able to hold the displayed weight and print at the same time after pressing print key (when there is loading). Press Key
			to clear.
	Printer type	AnoriAL	N/A
P3	Setting of this	58-24	Normal dot-matrix printer
	parameter determines the data format for the connected printer type		Label printer
	RS-232 Baud Rate	2400	
P4	Setting of this parameter determines RS-232 data	4800	
Г <b>4</b>		☆ <u>9500</u>	
	transmission rate.	19200	

	-			
	RS-232Data	☆	<u>n8  </u>	
	Format		<u>o8 (</u>	
P5	Setting of this		E8 (	
	parameter determines the RS-232		n]]	
	transmission data		o71	
	format.RS-232		F7:	
<b>P6</b>	Backlight		oFF	No Backlight
			ρn	Backlight is on always
		${\leftarrow}$	SRuE	Backlight when stable sign appear. Off automatically 3 seconds after stable weighing
			Ruto	Auto (backlight is actuated when weight loading is over 20e)
P7	Channel		}	Channel 1
			2	Channel 2
		$\overrightarrow{\lambda}$	1_2	Dual Channel

## [ CAPACITY/RESOLUTION SETTING ]



	(5). Repeat steps(3) (4) to complete setting of resolution. Exp: $d_{t,u}$ " $\zeta$ "
	<ul> <li>(6). Press Rey and display will show the internal self checking value and stop. This means that setting of capacity/resolution is completed.</li> <li>Example : 2058 13</li> <li>Turn off the scale and turn on again.</li> </ul>
Note :	

Maximum capacity to be set for this indicator is 400000kg.

Minimum division to be set for this indicator is 0.01g.

Whenever the capacity / resolution is set or changed, be sure to re-calibrate according to calibration procedure located in service manual.

### [ Division Configuration Chart ]

	Kg		g		lb
Max 5	000kg	Max	5000g	Max	500lb
2	2000kg		2000g		200lb
1	000kg		1000g		100lb
ų	500kg		500g		50lb
	200kg		200g		20lb
	100kg		100g		10lb
	50kg		50g		5lb
	20kg		20g		2lb
	10kg		10g		1lb
	5kg		5g		0.5lb
	2kg		2g		0.2lb
	1kg		1g		0.1lb
	0.5kg		0.5g		0.05lb
	0.2kg		0.2g		0.02lb
	0.1kg		0.1g		0.01lb
0	).05kg		0.05g		0.005lb
0	).02kg		0.02g		0.002lb
0	).01kg		0.01g		0.001lb

## [ TESTING MODE ]

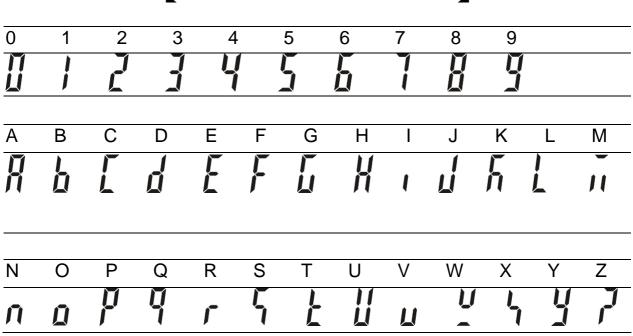
			(1). Press → key and turn on the scale. Display will show the internal count value and operation message display show
			(2). Press (M+) key , display will show the setting of capacity , the operation message display will show [M] ~
			(3). Press (M+) key and all segments in display are appearing. This is to check if the display is in good condition.
			(4). Press (M+) key , display show ℓ <sup>3</sup> , this is to check the key function condition.
5000000 000000			(5). After testing completed press
※ Relative position			
1 : Memory cancel	6	: pri	rint 11 : Sampling
2 : accumulation.	7	: HI	I limit 12 : Net/gross
3 : escape.	8	: LC	O limit 13 : Item/Function
4 : Memory recall	9	: Ta	are 14 : Item/Scale
5 : Unit.	10	: Ze	ero

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### [ERROR MESSAGES]

Error Message	Reasons / Possible Caused	Solutions
<b>E0</b> no EE	The CPU unable to read the EEPROM	Contact the manufacturer or nearest agent
E1 [RL-d	Unable to read the 3 points calibration range	Refer to "service manual" for calibration procedures
E2 7₩	Zero Point is too high	<ol> <li>Make sure the pan is empty when turn on the scale or perform the 3 points calibration.</li> <li>Check the connections of wiree</li> </ol>
E3 7Lo	Zero Point is too Low	<ul> <li>wires</li> <li>(1) Make sure the pan is on the scale or perform the 3 points calibration.</li> <li>(2) Check the connections of wires.</li> </ul>
<b>E4 U</b> n5 <i>ER</i> b	Unstable zero point	<ol> <li>Make sure there is no winds or vibration .</li> <li>Check the connections of wires.</li> </ol>
<b>E5</b> L[-oF	<ul><li>(1)Load cell spec. not</li><li>compatible.</li><li>(2)calibrating weights mistake</li></ul>	<ol> <li>Replace with a compatible load cell.</li> <li>Change with correct calibrating weights.</li> </ol>
<b>E6</b> no L[	Load cell read out always the same	(1)Check if load cell wire are connected correctly.
E10 [Lh-b Optional RS-232(RTC) batteries run out		Replace the batteries
E11 di FF	Unable to accumulate. Two objects are with different units.	Press DATE twice to clear all accumulation data or press and return to normal weighing mode.

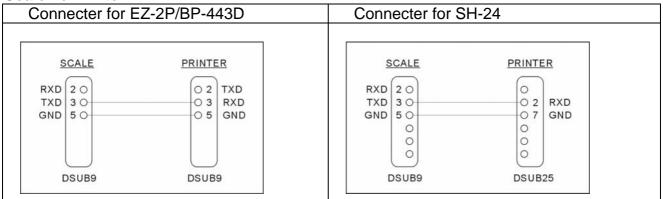
<b></b>		V03
E12 مى XX	Accumulation data exceed preset maximum	Press DATE twice to clear all accumulation data or press and return to normal weighing mode.
E13 LojKı	Hi / Lo setting incorrect	Press Hi / Lo value.
E20 XXXXX	External division over Maximum (XXXXX is external resolution)	Press (MR) and reset Capacity / Resolution
E21 dul XX	Capacity / Resolution Setting inaccurate.	Press EN/DIS and redo Calibration (make sure the calibrate weight is correct).
	Overload (Maximum display= max .capacity + 9e )	Remove the object from the weighing pan.
	Indicator unable to Switch On when pressing key	Use a tool to press the RESET key located at the back of the indicator to turn on the scale and clear the problem.



### [ LCD CHARACTERS ]

### [CONNECTER]

#### **Scale To Printer**



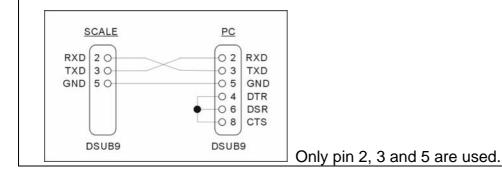
#### Scale To PC

When you want a scale to transmit data to PC continuously.

(1) Using a cable as following to connect Scale and PC

(2) Set printer mode as continue

(3) Scale data will be sent to PC continuously. (of course, you must have the receiving software on the PC)



### [DATA PROTOCOL]

#### • Output Data when Print Mode set as Continue

(header1: ST=STABLE US=UNSTABLE) (header2: NT=NET GS=GROSS) For example : ST /NT + 12.350 kg header1 header2 weight unit (8digits)

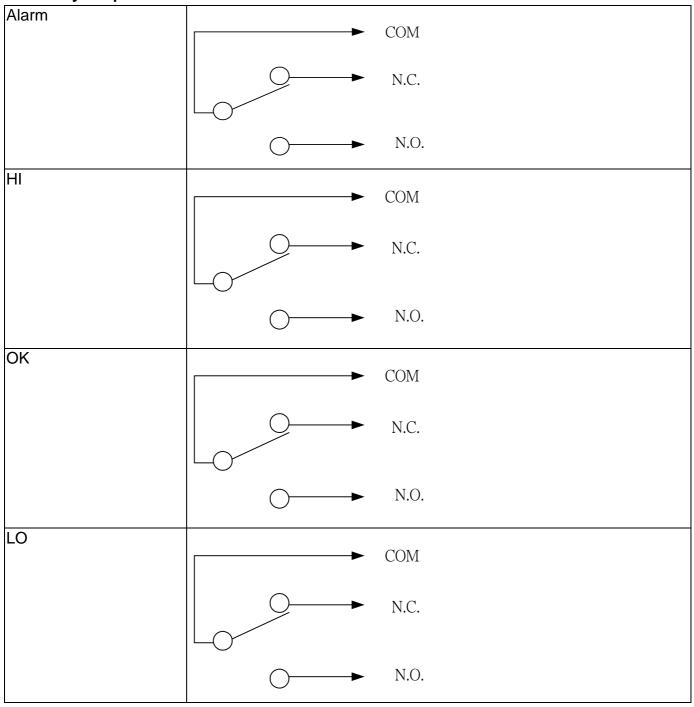
#### • Input commands

"T"=perform TARE function

"Z"=perform ZERO function

### [RELAY MODULE DIAGRAM]

■ Relay Output :



#### Relay Contact Spec

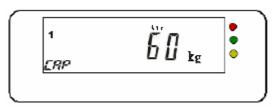
1A/24VDC , 0.5A/125VAC , 0.25A/250VDC

## [ DUAL PLATFORM OPERATION CH1,CH2 ]

### OPTIONAL

(1) Set parameter 7(P7) to  $l_2 l_2$ .

(2) Turn off the indicator. Restart the indicator with key pressed. Now you are entered to platform1 (CH1).



- (3) Set the capacity / Resolution and perform calibration of platform 1.
- (4) Press  $(17EM)^{SCALE}$  and switch to platform 2(CH2).
- (5) Set the capacity / Resolution and perform calibration of platform 2.
- (6) Turn off the indicator now and then restart.
- (7) Now the display is for platform 1(CH1).

(8) Press for switch between CH1 and CH2.

### Features:

(1) Each platform has respectively Serial Number and Max. Serial Number.

(2) Each platform has respectively 10 sets of Hi/Lo, 5 sets of Auto Tare and 5 sets of Pre Tare memories.

(3) Printing format for two platforms can be set to different one at the same time.

### Accumulation:

(1) Accumulation is only allow for either one platform.

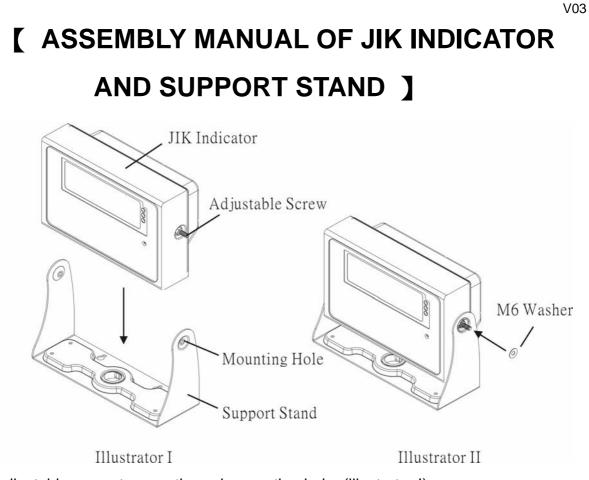
### **[PRODUCT SPECIFICATIONS]**

### 1. General

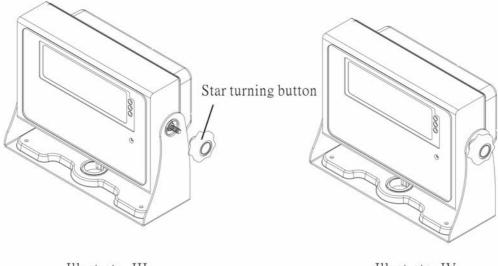
Enclosure	ABS	S/S		
Demensions	230(W) * 150(	H) * 90(D) mm		
Display	6digit 30mm(H) & 3digit 10mm	(H) LCD(include EL backlight)		
Units	kg or g, lb, 台斤.兩, 港斤.兩, pcs, %			
Power	Adaptor 9V/1A Recharging Battery 6V/3Ah	Adaptor 9V/1A Recharging Battery 6V/3Ah can be selected		
Weight(include Battery)	Approx. 2.5kg	Approx. 2.8kg		

### 2. ADC and Loadcell

Model		Advanced			
	Transform Mode	$\Delta$ – $\Sigma$			
ADC	Internal Resolution	Approx. 5,000,000 counts			
ALC	External Resolution	Max. 60,000d(non-OIML)			
	Conversion Speed	10 times/sec			
System Linearity		Within 0.01% of FS			
	Excitation	5VDC $\pm$ 6% , 120mA(drives up to 8 * 350 L.C. )			
Loadcell	Full Scale	-10 ~ 40mV(include dead load)			
	Input Sensitivity	Min. 0.1uV/d(non-OIML)			



- 1. Using adjustable screw to pass through mounting hole. (illustrator I)
- 2. Put M6 washer onto adjustable screw. (illustrator II)



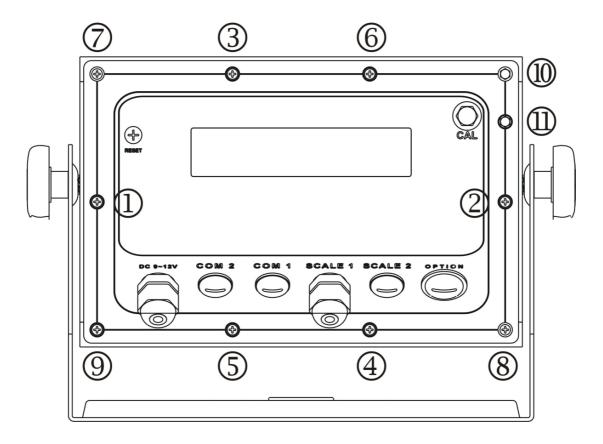
Illustrator III

Illustrator IV

3. Rotating the star turning button into adjustable screw. (illustrator III)

4. Adjust the indicator to the best view, and then rotate it tight via star turning button. (illustrator VI)

## [ FIXING SCREW INSTRUCTION FOR JIK-XSX ]



- After connecting load cell and optional devices (RS-232, RELAY), fix all screws attached fallow the above numeric sequence.
- If using an electric screwdriver, set the torque range to 5-7 kgf.cm.
- Sealing screws are to be located at sequence 10 and 11.

V03

# [ SINGLE POINT CALIBRATION FOR WEIGHT ]

Step I (Enter into calibration mode)
Turn on the scale by holding down (MR) key until CAP is shown on the lower left screen, i.e. the
scale has entered into the calibration mode.
Note: If the calibration unit, capacity, and resolution have been set, you may skip Steps II~IV and
press (MR) key to enter into Step V to perform zero point calibration.
Step II (Select Calibration Unit)
You may select calibration unit (kg, g) by use of $(HABLE)$ key.
Step III (Capacity Setting) $\begin{pmatrix} ZERO \\ +OC \end{pmatrix}$ $\begin{pmatrix} GROSS \\ NET \end{pmatrix}$
Press $\stackrel{\checkmark}{\leftarrow}$ or $\stackrel{\blacksquare}{\rightarrow}$ key to shift the flickering digit left or right; press $\stackrel{\blacksquare}{\rightarrow}$ , $\stackrel{\blacksquare}{\rightarrow}$ key to set
any value between 1-9; after setting, press (MR) key to enter into the next step.
Step IV (Resolution Setting) Press $\stackrel{(ZERO)}{\leftarrow}$ or $\stackrel{(\overline{GROSS})}{\rightarrow}$ key to shift the flickering digit left or right; press $\stackrel{(M+)}{\rightarrow}$ , $\stackrel{(M-)}{\rightarrow}$ key to set
any value between 1-9; after setting, press key to save and show the offset-value; press the
weighing pan gently, if the value changes, it's normal. <b>Note:</b> If you don't want to perform calibration, just power off and the setting are completed.
Step V (Zero Point Calibration)
Press (Rev to perform zero point calibration; when CAL on the lower left stops flickering,
zero point calibration is completed with CAL **kg shown.
Note: If the show value is very unstable, press key to enter into stb adjustment function,
use (HIT) key to extend the range of stb (it is recommended to adjust one segment each
time), after confirmation, press key to save setting and the zero point calibration
will be performed automatically.

**Step VI** (Single-point Calibration) Note: If to perform three-point calibration, skip this step.

Press  $\stackrel{(ZERO)}{\longrightarrow}$  or  $\stackrel{(\overline{MET})}{\longrightarrow}$  key to shift the flickering digit left or right; press  $\stackrel{(\overline{MET})}{\longrightarrow}$ ,  $\stackrel{(\overline{MET})}{\longrightarrow}$  to adjust the value; input the weight value to be calibrated, and put the correct weight onto the weighing pan, then press  $\stackrel{(\overline{MET})}{\longrightarrow}$  key to save and confirm, once PASS is shown, take away the weight on the weighing pan and restart the machine for normal

PASS is shown, take away the weight on the weighing pan and restart the machine for normal use.

Step VII (Three-point Calibration)

Press (HIT) key for 3 seconds until C-1 is shown at the lower left corner.

**First Point C-1:** Press  $\stackrel{(\text{GROSS})}{\leftarrow}$ ,  $\stackrel{(\text{M+})}{\rightarrow}$ ,  $\stackrel{(\text{M-})}{\rightarrow}$  and  $\stackrel{(\text{M-})}{\rightarrow}$  key to shift the flickering digit left or right and to set values; input the weight value to be calibrated, and put the correct weight onto the weighing pan, press  $\stackrel{(\text{M-})}{\rightarrow}$  key to confirm and perform calibration.

Second Point C-2: Put the weight to be calibrated onto the weighing pan, the weight value will be shown automatically on the screen; press  $\bigcirc$  key to confirm and perform calibration. Third Point C-3: Put the weight to be calibrated onto the weighing pan, the weight value will be shown automatically on the screen; press  $\bigcirc$  key to confirm and perform calibration. Once PASS is shown, take away the weight on the weighing pan and restart the machine for normal use.

Recalibration: If any error occurs during calibration, press (Key to return to zero point

calibration mode and perform calibration according to the calibration procedures.

Note: The weight value in three-point calibration shall comply with C-1 < C-2 < C-3.