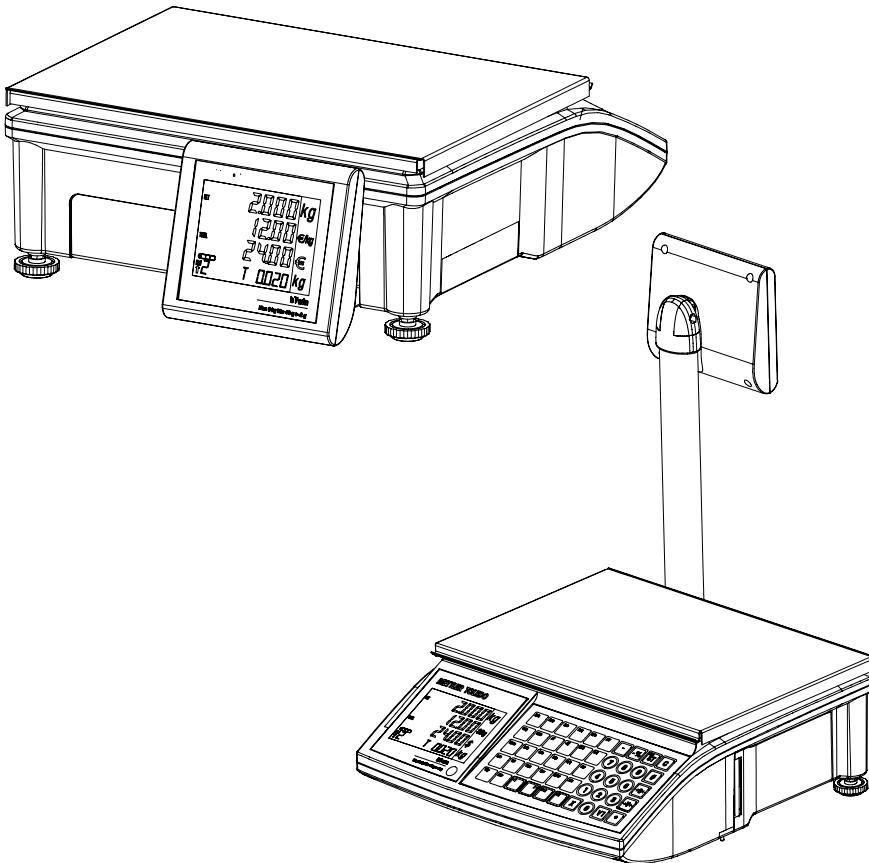
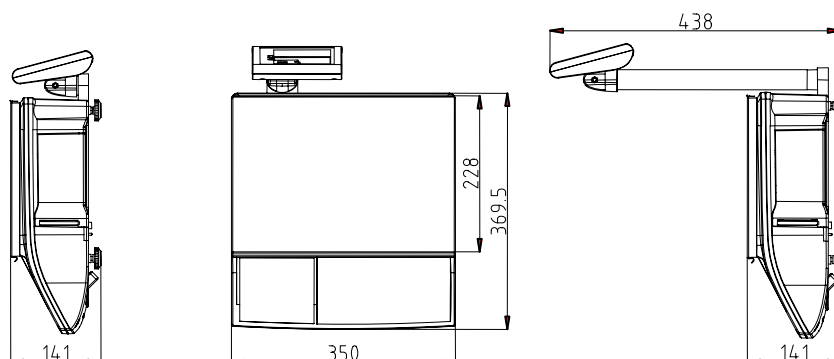


RS Series

Service Manual

GB





INTRODUCTION

This publication is provided solely as a guide for individuals who have purchased the OHAUS RS Series scale product.

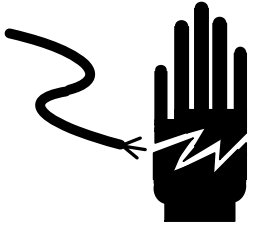

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OHAUS RESERVES THE RIGHT TO MAKE REFINEMENTS OR CHANGES WITHOUT NOTICE.

Precautions

READ this manual
BEFORE operating or
servicing this equipment.

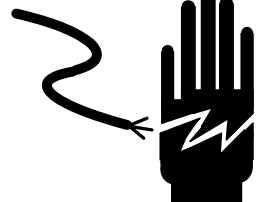

	 WARNING ONLY PERMIT QUALIFIED PERSONNEL TO SERVICE THIS EQUIPMENT. EXERCISE CARE WHEN MAKING CHECKS, TESTS AND ADJUSTMENTS THAT MUST BE MADE WITH POWER ON. FAILING TO OBSERVE THESE PRECAUTIONS CAN RESULT IN BODILY HARM.
---	---

FOLLOW these
instructions carefully.

	 WARNING FOR CONTINUED PROTECTION AGAINST SHOCK HAZARD CONNECT TO PROPERLY GROUNDED OUTLET ONLY. DO NOT REMOVE THE GROUND PRONG.
---	---

SAVE this manual for
future reference.

DO NOT allow untrained
personnel to operate,
clean, inspect, maintain,
service, or tamper with
this equipment.

	 WARNING DISCONNECT ALL POWER TO THIS UNIT BEFORE REMOVING THE FUSE OR SERVICING. FAILURE TO DO SO MAY RESULT IN BODILY INJURY OR PROPERTY DAMAGE.
--	---

ALWAYS DISCONNECT
this equipment from the
power source before
cleaning or performing
maintenance.

 CAUTION BEFORE CONNECTING/DISCONNECTING ANY INTERNAL ELECTRONIC COMPONENTS OR INTERCONNECTING WIRING BETWEEN ELECTRONIC EQUIPMENT ALWAYS REMOVE POWER AND WAIT AT LEAST THIRTY (30) SECONDS BEFORE ANY CONNECTIONS OR DISCONNECTIONS ARE MADE. FAILURE TO OBSERVE THESE PRECAUTIONS COULD RESULT IN DAMAGE TO OR DESTRUCTION OF THE EQUIPMENT OR BODILY HARM.	
---	--

CALL OHAUS for parts,
information, and service.

 CAUTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.



GEO-Value

The GEO-Value of verified balances explains for which location of use the balance has been verified. This GEO-Value is shown on the balance total price display shortly after the balance is turned on. Further details are shown in the "GEO-Value table" below.

GEO-Value table

Country	Geo-Width	Geo-Value (default)
Austria	46°22' – 49°01'	18
Belgium	49°30' – 51°30'	20
Bulgaria	41°41' – 44°13'	16
Croatia	42°24' – 46°32'	18
Czechia	48°34' – 51°03'	20
Denmark	54°34' – 57°45'	23
France	41°20' – 51°00'	19
Finland	59°48' – 70°05'	25
Germany	47°00' – 55°00'	20
Greece	34°48' – 41°45'	15
Hungary	45°45' – 48°35'	19
Ireland	51°05' – 55°05'	22
Iceland	63°17' – 67°09'	26
Italy	35°47' – 47°05'	17
Latvia	55°30' – 58°04'	23
Luxembourg	49°27' – 50°11'	20
Liechtenstein	47°03' – 47°14'	18
Lithuania	53°54' – 56°24'	22
Netherlands	50°46' – 53°32'	20
Norway	57°57' – 71°11'	24
Poland	49°00' – 54°30'	21
Portugal	36°58' – 42°10'	15
Romania	43°37' – 48°15'	18
Sweden	55°20' – 69°04'	24
Switzerland	45°49' – 47°49'	18
Slovakia	47°44' – 49°46'	19
Slovenia	45°26' – 46°35'	18
Spain	36°00' – 43°47'	15
Turkey	35°51' – 42°06'	16
United Kingdom	49°00' – 62°00'	21

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1 Introduction

1.1 Overview

The RS Series, with integrated printer, has the family appearance of Tiger series scales.

The target customers for RS Series are:

- Small store business (i.e. Fruit & Vegetables, cooked meat, cheese, etc.)
- Bakery

All our equipment is assembled, tested and packed with great care. If you find something that does not meet your expectations, please contact OHAUS immediately.

The RS Series scale is a high precision weighing instrument, which has to be approved and stamped by Weights and Measures. This scale is stamped in our production plant or by your local Weights & Measures office. Please check the stamping stickers on the scale before use.

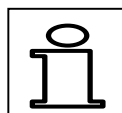
Please read this instruction manual carefully.

If properly used and maintained, this scale will provide years of accurate weighing. Please handle it as you would any piece of fine electronic equipment.

1.2 Specification

Model	RS-3S-000E	RS-6S-000E	RS-15S-000E	RS-30S-000E
Capacity	3kg/1g	6kg/2g	15kg/5g	30kg/10g
Overload weight	4.5kg	9kg	22.5kg	40kg
Load cell capacity	4.5kg	15kg	30kg	40kg
Display	LCD with backlight; 6-digit weight, 6-digit unit price, 7-digit total price, 5-digit tare and 12 14-segment characters for instruction			
Customer display	Adjustable			
Key	50 membrane keys			
Preset key	30: Store up to 60 PLUs			
Stainless steel platter	342mm x 242mm			
PLU quantity	1000			
Transaction quantity in one ticket	Max. 100			
Vendor quantity	4			
Group quantity	20			
Power	100~240VAC, 50/60HZ or 12VDC/5Ah lead-acid rechargeable battery (option)			
Gross weight/ Net weight	Gross weight: 7.7kg; Net weight: 5.6kg			
Shipping Box (L x W x H)	533mm x 471mm x 230mm			
Working environment	Temperature: -10oC~40oC; Humidity: 85%RH, non-condensation			
Storage environment	Temperature: -25oC~50oC; Humidity: 85%RH, non-condensation			
Report delete	Delete report automatically (keep 3-business day reports) or manually.			

Metrological instructions



Important note
on legal-for-trade scales in EEC
countries



Factory verified scales carry this identification on the label applied on the package.



Scales identified by the green "M" label applied on the identification plate, can be operated immediately.



Scales calibrated in two stages carry the opposite identification on the label applied on the package

These scales have already been verified in the first step (declaration of conformity according to EN 45501-8.2) and should receive the second step at their working place.

This second step must be performed by the certified OHAUS after-sales service.

Please contact your local OHAUS agency.

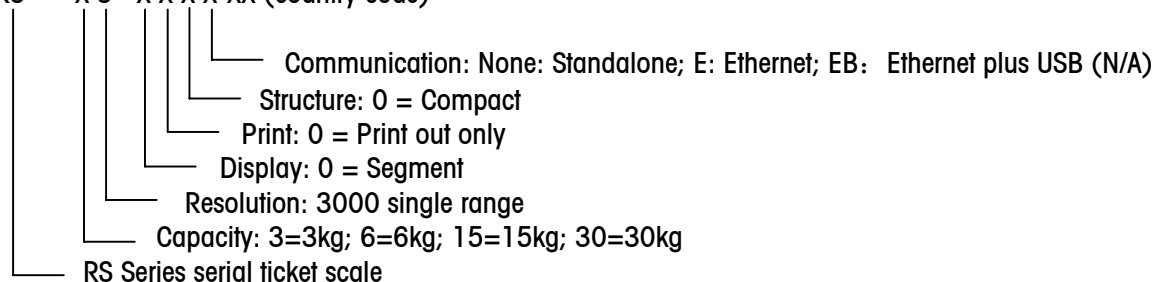
Retail scales, used for legal trade, must be submitted for calibration and verification.

Do respect the current metrological directives in your country.

Reports	<ul style="list-style-type: none"> ✍ Sales report ✍ PLU report ✍ Promotion report ✍ Group report ✍ Group hourly report 	<ul style="list-style-type: none"> ✍ Hourly report ✍ Settle report ✍ Store/ sell/ inventory report ✍ Void/ ST report ✍ Vendor report 	<ul style="list-style-type: none"> ✍ Cash drawer report ✍ Weekly report ✍ Monthly report ✍ Yearly report ✍ Log
Checkout function	<ul style="list-style-type: none"> Cancel transaction Refund Open Cash drawer Suspend 	<ul style="list-style-type: none"> Discount Rebate Raffle Gift 	<ul style="list-style-type: none"> Settle amount Multi-payment methods ECR checkout method
Paper	Ticket or label, the thickness should be less than 0.12 mm		
Weighing function	Zero, tare, Large weight input, 100g		
Other functions	Date/ time display, work as a calculator and quick key function		
Password and relevant authority	Flexible password management make privilege management easier		
Communication	2 RS-232, 1 Ethernet (option), 1 USB (option), 1 cash drawer port		
PC software	bServ for data management		
SW update	Through RS-232 or Ethernet		

1.3 Model Configurature

RS – X S - X X X X-XX (country code)



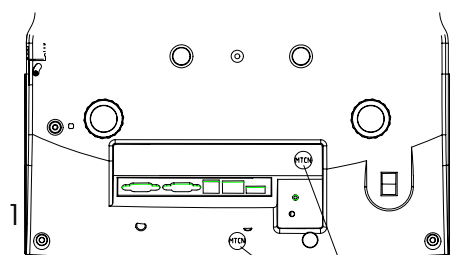
1.4 Approval

- ✍ OIML
- ✍ CB Report

1.5 Option

Description	CIMF number
Tower kit	72182129
Lead acid rechargeable battery	72173948
Ticket scroll, Internal dia. 12mm, outside dia. 68mm	72181866
Label scroll, Internal dia. 12mm, 500 labels	72181868

1.6 Sealing



After installation is completed, legal-for-trade applications require sealing the enclosure so the settings cannot be changed. Security Sticker Ø 15mm, material Vinyl wcllicke 3690 E UL, color red, text color black. There are two labels that are used for sealing.

OHAUS

2 Installation

2.1 Precautions

Before you install your RS Series scale, identify the best location for the equipment. The proper environment enhances the operation and longevity of the scale. Keep in mind the following factors, which might have a negative influence on the scale's operation:

- ☞ Vibration diminishes the scale's ability to measure accurately. Excessive vibration from equipment such as conveyors can cause inaccurate and non-repeatable readings.
- ☞ Be sure the scale is leveled properly.
- ☞ Air currents can also diminish a scale's performance. Avoid placing the scale in front of or directly under air vents.
- ☞ Other than items being weighed, keep the scale free from objects rubbing or pressing against the platter.

2.2 Contents of Packaging

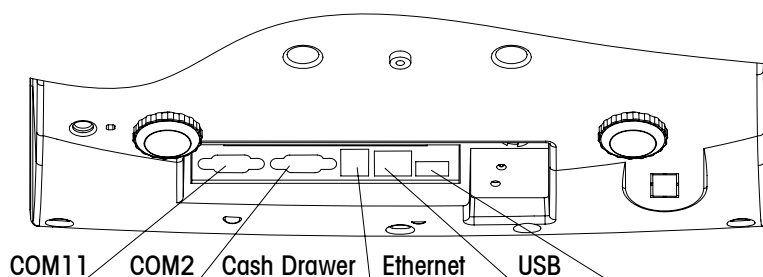
Package contents for all RS Series units include:

- ☞ RS Series scale
- ☞ Stainless steel platter
- ☞ Power cord
- ☞ Operation manual
- ☞ One ticket roll
- ☞ Quick operation guide

2.3 Interface

The communication interface is located on the front of scale bottom. There are 5 ports as follows:

- ☞ COM1 (male DB9 RS-232): to connect with scanner
- ☞ COM2 (male DB9 RS-232): to connect with PC
- ☞ Cash Drawer* (RJ11): to connect with cash drawer
- ☞ Ethernet port (RJ45): network (option)
- ☞ USB: to connect with PC or scanner (option)



* The requirement on the cash drawer is as follows:

Rating Voltage(VDC)	Loop DC resistor(Ω) T=20°C	Under rating voltage		Electrified time under Max. voltage(ms)	
		Max. electrified time(ms)	Current(mA)	max	Continue rate
12	12	200	1000	200	10%

2.4 Installation of Scale

1. Open the box, carefully remove the packing material, and take all items out of the carton.
2. *Install the tower, if it is a tower version.
3. *Install the ticket or label roll.
4. *Install the battery, if it has a battery.
5. Remove the shipping protection screw (3kg only) as illustrated in the left picture, and then put the platter on the top of the scale.
6. To connect a cash drawer to RS Series, plug the cable of the cash drawer into the socket on the scale.
7. Set the scale base on a sturdy, level surface. Level the scale by turning the adjustable feet on the bottom of the unit. Adjust the feet until the level bubble is in the center of the circle.

Bubble indicator:

Correct



Wrong

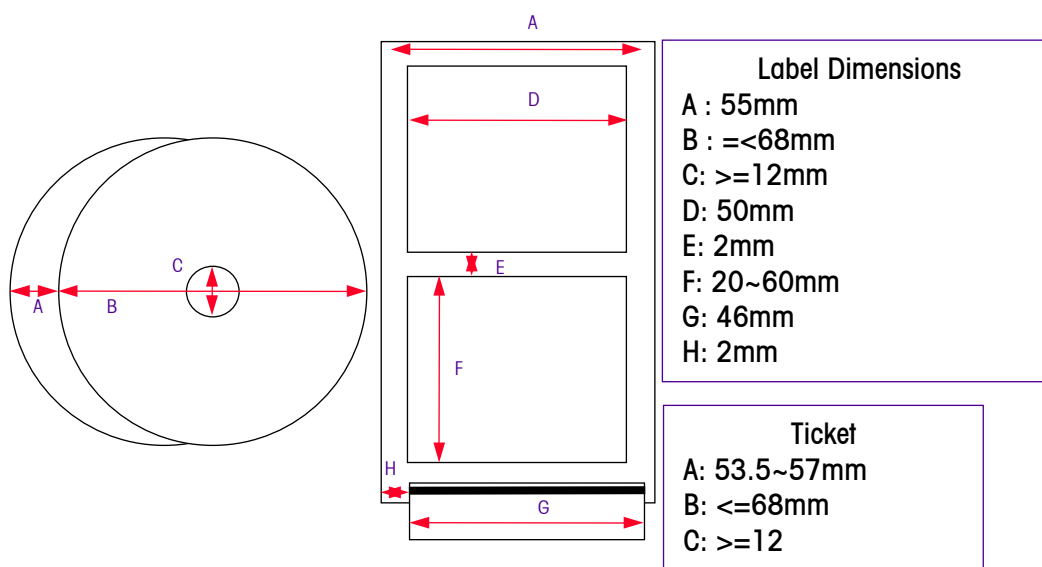


8. Connect the power cord to the scale base and AC power socket.

* The following 3 sections will describe how to install.

2.5 Installation of Paper Roll

The requirements of the tickets and labels are as follows:



The thickness of ticket or label plus liner should be less than 0.12mm.

Notice: If paper is not long enough to print the whole ticket, install a new paper roll and print the whole ticket again.

The procedures to install a ticket roll are as follows:

- 1) To open the printer door, push the switch of the printer door backward to the customer side with thumb. This switch is located on the bottom of the scale.
- 2) Open the door wider.
- 3) Take the paper roll out (if needed). Put the new roll on the metal column.
- 4) Pull out some paper and position it between the two metal brackets on black roll bar.
- 5) Close printer door and tear off excess paper.
- 6) Press key [Mode], then [X] to test paper.



The procedures to install label are as follows:

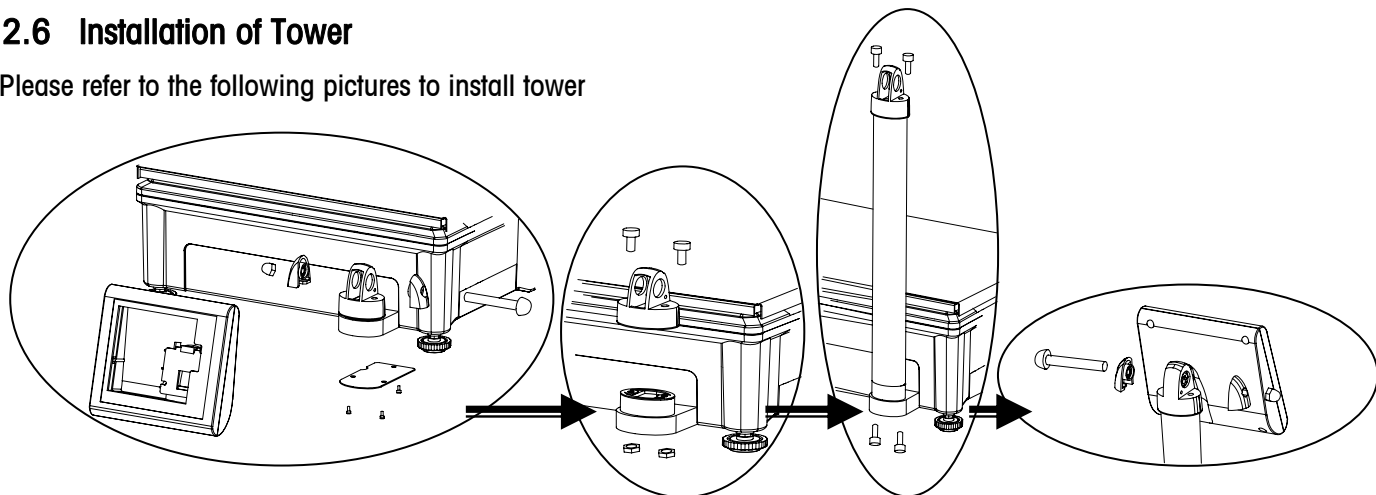
- 1) Push the switch of the printer door backward to the customer side with thumb, the door will open.
- 2) Open the door wider.
- 3) Take the paper roll out (if needed). Put the new roll on the metal column.
- 4) Peel off the first two labels.
- 5) To limit the movement of the label, adjust the bar located at the top of the plastic guide, so the label fits snugly in place.
- 6) Take liner and insert through the plastic guide located behind the tear bar on the side of scale.
- 7) Pull liner trough and ensure the bottom edge of the liner is located directly above the metal bracket on the bottom of the black roll bar.
- 8) Close printer door.
- 9) Press [MODE] and [X] to test the label for scale to get some relevant data.



Notice: To avoid damage to the printer, don't slam the printer door.

2.6 Installation of Tower

Please refer to the following pictures to install tower



2.7 Installation of the Battery

RS Series has a charge function and uses 12V/5Ah rechargeable lead-acid batteries. It is an option and is not in the scale when shipped.

To remove the battery from the battery holder:

- 1) Remove the platter.
- 2) To take the cover up away, push the fixing button of the battery cover to the right and forward.
- 3) Remove the harness from the two electronic poles.
- 4) Hold the middle of the battery in one hand. With the other hand, hold the pole connector of the battery to take the battery out of the holder.

☞ To install the battery:

- 1) Remove the platter.
- 2) Put the battery in the holder, and make sure that the harness is outside,
- 3) Connect the harness with the electric poles of the battery



Notice: Red harness should connect to the positive pole (red or +), and black harness should connect to the negative pole (black or -), If not installed properly, the battery may be damaged.



Notice of lead rechargeable battery

- ☞ The battery (12V/5Ah rechargeable lead-acid battery) service life will be affected by the charge and discharge conditions. When used properly, it can withstand 300 cycles;
- ☞ The new battery can provided about 30 hours work after fully charge. A fully charged battery normally lasts 12 hours. The charge time will be shorter if the battery is not discharge fully. It is recommended to charge the battery every day.
- ☞ Do not short the positive pole (+) and negative pole (-) when replacing the battery.
- ☞ Charge the battery at least every 3 months to keep it in good condition.
- ☞ The work hours of the battery are shorter than normal if the battery is not used for a long time (i.e. more than 2 months). At this time, please cycle battery at least 3 times by charging it and using it until fully discharged to make the battery recover to normal condition.
- ☞ The battery is not warranted due to the fact that its service time is greatly influenced by individual.
- ☞ The number of work hours will decrease as the battery ages. This is normal for rechargeable batteries.
- ☞ Don't let the battery touch chemical solvent, oil, water, etc. Don't let it near fire. Don't open the battery, or it may cause explosion or damage to the battery.

2.8 Power up and Turn off the Scale

Plug the cord into a properly grounded AC power outlet and press the switch in the middle of the left bottom of the scale. The scale will go through a series of self-tests and then will proceed to normal operating mode. The power-up sequence is as follows:

Display sequence	Description	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	All segments are lit on the display.	888.888	888.888	8888.888	888888888888	All cursors
Step2	From top to bottom, it displays the part number of the software, version number, country code and GEO value	179403	1.0	EU 20		
Step3	Ready to weigh	0.000	0.00	0.00	V1 TICKET	

Press the power switch to turn off the scale.

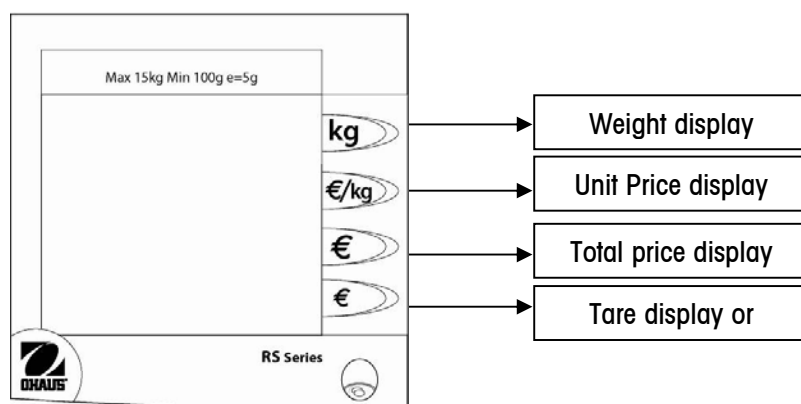
Note: Before switching on the RS Series scale, please ensure that there is nothing on the platter.

2.9 Option

- ☞ 12V/5Ah rechargeable lead-acid battery
- ☞ Tower column

3 Operation Interface

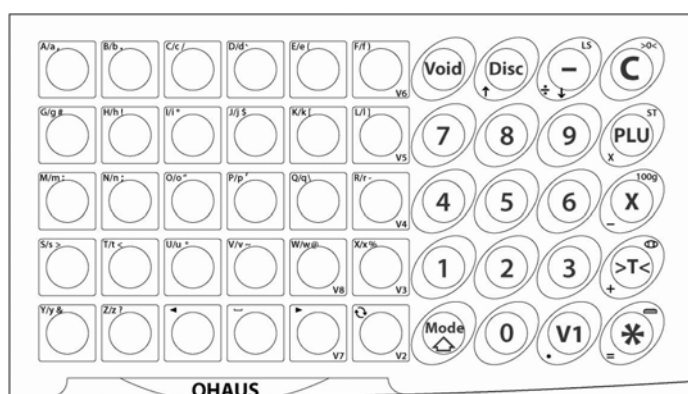
3.1 Display



3.2 Cursor

Cursor	Instruction of lit cursor	Cursor	Instruction of lit cursor
→0←	The weight is gross 0	NET	The weight is net weight
Prepack	Scale is in prepack status	LS	Scale is in large sale status
ST	Scale is in ST mode	PLU	The data on the right is PLU #
X	Scale is in by count mode	Fix	The unit price, tare or PLU will not disappear when items are removed or accumulated into total
100g	The weight unit of the price is 100g	⚡	The current power is AC
🔋	Lit: The power is battery Flash and lit ⚡: Charging Flash and no ⚡: Low battery, needed to charge or change battery	🔌	3 lit blocks: the scale is master, and connects with at least one slaver 2 lit blocks: the scale is a slave, and connects with master. Off: scale is standalone or does not connect to other scales

3.3 Keyboard



3.4 Key Function in Weighing Mode

3.4.1 20 Function Keys

☞ Main function




Press the key to complement its main function

Key	Key name	Function
[Disc]	Discount key	Input the discount percentage or discount price
[-]	Rebate key	Input the rebate to total price
[PLU]	PLU key	Recall PLU or input unit price manually

[X]	By count key	Access to by count mode
[→T←]	Tare key	Tare the scale
[*]	Print key	Show total or print ticket and open cash drawer
[V1],[V2],[V3],[V4]	Vendor key	Subtotal transactions
[C]	Clear key	Clear input
[Void]	Void key	To cancel transaction
[0]~[9]	Number key	To input digits
[Mode/↑]	Mode/Shift key	To get into/out of setting mode or complete the shift function of some keys
[↑] or [↓]		Select the wanted transaction in void mode

☞ Shift function (on the top right corner of key)

Press and hold [Mode/↑] key, then press the following key to complete function written on its top right corner.

Key	Shift function		Function
[Disc]	C	Time key	Access to or exit date/time showing mode
[-]	LS	Large item key	Access to large weight input mode
[C]	→0←	Zero key	Zero scale
[PLU]	ST	Refund key	Access to or exit refund (ST) mode
[X]	100g	100g key	Toggle between 100g unit price unit and kg unit price unit
[→T←]		Suspend key	Suspend or take out of transactions
[*]		Cash drawer key	Open cash drawer
[V1]		Calculator key	Access to or exit calculator mode

☞ Key function in calculator mode (on the bottom left corner of key)

Key function in calculator mode (On the bottom left corner of key)			
Key	Function on the bottom left corner	Example: $3 \times 5 + 5.67 = 20.67$	
[→T←]	[+]: plus key	Key operation	Display shows as follows
[X]	[-]: minus key	[3][x]	3
[PLU]	[x]: multiply key	[5]	5
[-]	[/]: divide key	[+]	15
[*]	[=]: equal key	[5][.][6][7]	5.67
[V1]	[.]: point key	[=]	20.67000
[C]	Clear key to clear input		

3.4.2 30 Preset Keys

☞ Press the key or double click the key to recall PLU.

☞ 3 keys, [R], [X] and [↺] can be set as vendor keys, [V4], [V3] and [V2]. In this case, they have the same functions as [V1], but they can not be used to recall PLU.

4 Operation

4.1 Zero

There are two ways to re-zero the scale:

☞ Power-up zero

The scale will automatically capture zero when it is turned on. The power-up zero capture range is $\pm 10\%$ of the scale capacity. When the scale is turned on with a weight on the platter, which is more than $\pm 10\%$ of the capacity, the scale will not capture zero and the weight display will show "-----". After removing the weight, the scale will capture "zero".

☞ Pushbutton zero

Press and hold key [Mode], then press [$>0<$] to re-zero the scale within the range of $\pm 2\%$ of the scale capacity. To use this function, the scale must be in the gross weighing mode (NET cursor must be off) and in a no motion condition. When the weight on the platter is more than $\pm 2\%$ of the scale capacity, scale can not be re-zeroed.

4.2 Tare

Tare is a subtract tare. When tare exists, the most the scale can weigh is its full capacity minus tare.

Tare can not be cleared unless the net weight is equal to gross weight. Tare function is enabled only when the displayed weight value is positive.

4.2.1 Pushbutton Tare

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Put the container (20g) on the platter		0.020	0.00	0.00	V1 TICKET	
Step2	Tare and show tare 0.020kg	[$\rightarrow T \leftarrow$]	0.000	0.00	0.00	T 0.020KG	NET
Step3	Remove the container from the platter		-0.020	0.00	0.00	T 0.020KG	NET
Step4	Clear tare and get back the gross weighing mode	[$\rightarrow T \leftarrow$]	0.000	0.00	0.00	V1 TICKET	

4.2.2 Input Preset Tare Manually

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Gross weight should be zero		0.000	0.00	0.00	V1 TICKET	
Step2	Please input the tare value	[$\rightarrow T \leftarrow$]	0.000	0.00	0.00	TARE 0.000	
Step3	Input the tare value 1.000kg	[1][0][0][0]	0.000	0.00	0.00	TARE 1.000	
Step4	Get tare	[$\rightarrow T \leftarrow$]	-1.000	0.00	0.00	PT 1.000KG	NET
Step5	Clear tare and get back the gross weighing mode	[$\rightarrow T \leftarrow$]	0.000	0.00	0.00	V1 TICKET	

The tare value is a multiple of the increment. If the tare value entered is not a multiple of the increment, then the value will be rounded (up or down) to the closest multiple.

e.g. If the increment is .005lb and the tare value entered is .007lb, then the scale will use a tare value of .005.

4.2.3 Tare Display

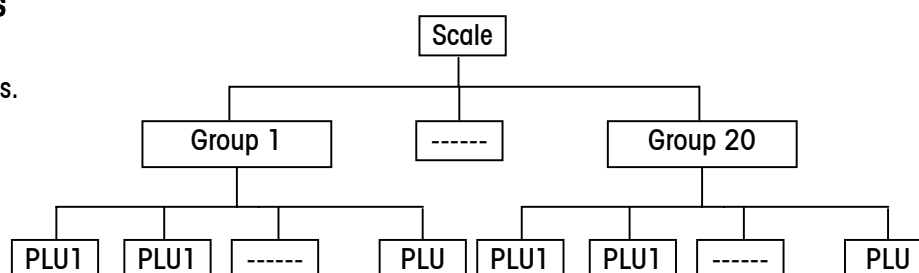
Tare will be shown on the bottom line. "T" means pushbutton tare, "PT" means preset tare including the tare in PLU

If tare exists, when key [V1] is pressed, the bottom line will show subtotal for about 1~2 minutes, then show tare.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Put the container (20g) on the platter		0.020	0.00	0.00	V1 TICKET	
Step2	Tare is 20g	[$\rightarrow T \leftarrow$]	0.000	0.00	0.00	T 0.020KG	NET
Step3	Recall PLU1 without tare	[1]	0.000	9.80	0.00	PLU 1 T 0.020KG	NET
Step4	Put the item on the platter		0.500	9.80	4.90	PLU 1 T 0.020KG	NET
Step5	Show subtotal 4.90\$ on the bottom line	[V1]	0.5 00	0.00	0.00	V1 P1 R 4.90	NET
Step6	Show vendor # and tare 0.020kg	1~2 seconds later	0.5 00	0.00	0.00	V1 T 0.020	NET
Step7	Remove the container from the platter		-0.020	0.00	0.00	V1 T 0.020	NET
Step8	Clear tare and show the subtotal 4.90\$	[$\rightarrow T \leftarrow$]	0.000	0.00	0.00	V1 P1 R 4.90	

4.3 Item Management Levels

There are 1000 PLUs and 20 groups.



4.4 Vendor Log in and Log out

When vendor's password exists, transactions can be accumulated only after this vendor logs in. The procedures to log in and log out are as follows:

Log in: e.g. vendor 1 logs in

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	TICKET	
Step2	Please input password of vendor 1	[V1] for 5 seconds				PW	
Step3	Input the password	[1][2][3]				PW ***	
Step4	One beep means vendor 1 has logged in	[*]				V1 LOG IN	
Step5	Weighing mode, V1 means V1 has logged in	About 1 second later	0.000	0.00	0.00	V1 TICKET	

If 4 vendors have logged in, the display is as follows:

-----	V1234 means 4 vendors have logged in		0.000	0.00	0.00	V1234 TICKET	
-------	--------------------------------------	--	-------	------	------	--------------	--

Log out: i.e. vendor 1 logs out

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	V1 has logged in		0.000	0.00	0.00	V1234 TICKET	
Step2	"V1 log out" shows about 2 seconds	[V1] for 5 seconds				V1 LOG OUT	
Step3	No V1 means V1 has logged out	About 1 second later	0.000	0.00	0.00	V234 TICKET	

When scale is turned off, all vendors will automatically be logged out.

4.5 Recall PLU (item information) or Input Unit Price and Compute Price

There are 3 ways to recall PLU or input unit price.

☞ When automatically recalling PLU is enabled (Default status when you get scale)

1) Press PLU # to recall PLU. E.g.: Recall PLU 21. Its tare is 0.020kg, unit price is 2.00\$/kg and etc.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Recall PLU 21	[2][1]	-0.020	2.00	-0.04	PLU 21 PTO.020KG	NET
Step3	Calculate total price	Put on items	1.000	2.00	2.00	PLU 21 PTO.020KG	NET

2) Input the unit price manually

To by weight type item, e.g. input a unit price 2.00\$/kg.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Input unit price	[PLU][2][0][0]	0.000	2.00	0.00		
Step3	Calculate total price	Put on items	1.000	2.00	2.00		

To by count type item, e.g. input a unit price 2.00\$/PCS

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Input the price value: 2.00\$	[PLU][2][0][0]	0.000	2.00	0.00		
Step3	Initiate the by count mode and get price	[X]	CN 1	2.00	2.00		X
Step4	Calculate the total price of 3 items	[3]	CN 3	2.00	6.00		X

☞ When PLU is recalled by PLU key (which can be set in setting 403: by PLU key)

1) Press PLU # and then key [PLU] to recall PLU. e.g. 21, its unit price is 2.00\$/kg, preset tare is 0.020kg and etc.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Recall PLU 21	[2][1][PLU]	-0.020	2.00	-0.04	PLU 21 PTO.020KG	NET
Step3	Calculate total price	Put on items	1.000	2.00	2.00	PLU 21 PTO.020KG	NET

2) Input the unit price manually.

To by weight type item, e.g. input a unit price 2.00\$/kg.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Input the unit price 2.00\$/kg	[2][0][0]	0.000	2.00	0.00		
Step3	Calculate total price	Put on items	1.000	2.00	2.00		

To by count type item, e.g. input a unit price: 2.00\$/1PCS.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Input the price value: 2.00\$	[2][0][0]	0.000	2.00	0.00		
Step3	Initiate the by count mode and get price	[x]	CN 1		2.00		X
Step4	Calculate the total price of 3 items	[3]	CN 3	2.00	6.00		X

☞ Recall information with scanner

e.g. recall the information of one bag of wash powder, its PLU # is 8, and item # is printed on the bag

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Scan bar code and get its information		-0.020	2.00	0.00	PLU 21 PT 0.020KG	NET
Step3	Calculate total price	Put on items	1.000	2.00	2.00	PLU 21 PTO.020KG	NET

In weighing mode, if the scanner can not scan the bar code on the bag, you may input the item number manually to recall the item information by pressing key [PLU], item number, and then [PLU] key.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	To recall item information through item #.	[PLU][1][2][3][4][5][6] [PLU]	CN 1	2.00	2.00	PLU 21	
Step3	Calculate the total price of 3 items	[x][3]	CN 3	2.00	6.00	PLU 21	X

4.6 Operation in Ticket Printing Mode

4.6.1 Print Ticket

For Example: One customer buys 2 items, PLU1 (0.5kg) and PLU6 (2 PCS), the procedure to print ticket is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Ready for weighing		0.000	0.00	0.00	V1 TICKET	
Step2	Recall PLU1	[1]	0.000	9.80	0.00	PLU 1	
Step3	Put the item 1 on the platter		0.500	9.80	4.90	PLU 1	
Step4	Accumulate this transaction into subtotal of V1. V1 means vendor 1, P1 means 1 transaction, A4.90 means the amount subtotal is 4.90\$	[V1]	0.5 00	0.00	0.00	V1 P1 A 4.90	
Step5	Remove item1 away from the platter and recall PLU3	[3]	CN 1	3.36	3.36	PLU 3	
Step6	Put the item 2 on the platter	[x]2	CN 2	3.36	6.72		
Step7	Subtotal, now has 2 transactions, amount is 11.62	[V1]	0.000	0.00	0.00	V1 P2 A 11.62	
Step8	Show total amount	[*]	V1	TOTAL	11.62	PAY 11.62	
Step9	Input the cash paid by customer	[1][2][0][0]	V1	TOTAL	11.62	PAY 12.00	
Step10	Show change and print ticket	[*]	V1	TOTAL	11.62	CHANGE 0.38	

In setting item 222, the change function can be disabled. In this case in step 8, after [*] is pressed, the ticket will be printed directly.

Notice

- If total amount is more than 7 digits, character V on the right will disappear and the total amount will be shown as "nnnnnnn"
- When ticket printing is not finished, but the paper is used up, please install a new paper roll, then press [*] to print the ticket again.

In total amount display mode, the following operation will return the scale back to weighing mode.

☞ Input PLU number

☞ Press tare

☞ Press key [C]

The format sample of the ticket is listed below:

Vendor: Susan		Ticket No.: 0001	
2005-02-08 15:56		Scale No.:01	
<hr/>			
PLU TEXT			
Kg(PCS)	\$/kg(PCS)		\$
<hr/>			
eel			
0.005	9.80		4.90
Apple			
2	3.36		6.72
<hr/>			
P	2	Total	11.62
Cash			12.00
Change			0.38
<hr/>			
YOU ARE WELCOME			

4.6.2 Multi-payment Way

Enable multi-payment way first as follows:

Procedure	Description	Key operation	Display on 1st line	Display on 2nd line	Display on 3rd line	Display On the bottom line	Lit cursor
Step1	In weigh mode		0.000	0.00	0.00	V1 TICKET	
Step2	Waiting to insert ID code	[Mode] [2]				SETUP/SHIFT	
Step3	Insert manager's id code [2]					PW	
Step4	Insert manager's password	[6][6][6][6][6][6]				PW *****	
Step5	Access to setup mode, in group 1	[*]	GR 01		-----	INFO INPUT	
Step6	Access to setting item 443	[4][4][3]	S 443		-----	MULTI-PAY	
Step7	Default is to only use cash for payment	[*]	S 443		0	CASH ONLY	
Step8	Select multi-payment way	[→T←]	S 443		1	MULTI-PAY	
Step9	Confirm selection and go to next step	[*]	S 401		-----	RESTORE DEF	
Step10	Return scale to weighing mode	[Mode][Mode]	0.000	0.00	0.00	V1 TICKET	

After multi-payment way takes effect, the following 3 keys will be automatically defined as payment key:

[Y]: Voucher key

[Z]: Credit card key

[◀]: Cheque key

At this time, including cash key [*], there are 4 keys for payment.

a) Use credit card for payment operation

Procedure	Description	Key operation	Display on 1st line	Display on 2nd line	Display on 3rd line	Display On the bottom line	Lit cursor
-----	Have done 2 transactions	-----[V1]	0.000	0.00	0.00	V1 P2 R 11.62	
next	Print ticket directly no matter "change function" is	[Z]	V1	TOTAL	11.62	2 CREDIT CARD	

	enabled or not, and show "2 credit card" to indicate it is paid by credit card. Don't open cash as well						
--	---	--	--	--	--	--	--

On the ticket credit card will be printed on the left of the paid amount as follows:

Credit card 11.62

b) Use cheque for payment operation

Procedure	Description	Key operation	Display on 1st line	Display on 2nd line	Display on 3rd line	Display On the bottom line	Lit cursor
-----	Have done 2 transactions	-----[V1]	0.000	0.00	0.00	V1 P2 R 11.62	
next	Print ticket directly no matter "change function" is enabled or not, and show "3 cheque" to indicate it is paid by credit card. Don't open cash as well	[]	V1	TOTAL	11.62	3 CHEQUE	

On the ticket cheque will be printed on the left of the paid amount as follows:

Cheque 11.62

3) Use voucher for payment operation

Procedure	Description	Key operation	Display on 1st line	Display on 2nd line	Display on 3rd line	Display On the bottom line	Lit cursor
-----	Have done 2 transactions	-----[V1]	0.000	0.00	0.00	V1 P2 R 11.62	
next	No matter "change function" is enabled or not, press voucher key to get into total display mode	[Y]	V1	TOTAL	11.62	V PAY 11.62	
next	Input voucher value 12.00€	[1][2][0][0]	V1	TOTAL	11.62	V PAY 12.00	
next	* Press cash key to give cash change and print ticket	[*]	V1	TOTAL	11.62	C CHG 0.38	

On the ticket voucher will be printed on the left of the paid amount as follows:

Voucher 12.00

Cash change 0.38

* If press voucher key [Y] at this time, the change will be voucher also, the display will be as follows:

next	* Press voucher key to give voucher change	[Y]	V1	TOTAL	11.62	V CHG 0.38	
------	--	-----	----	-------	-------	------------	--

On the ticket printed content will be as follows:

Voucher 12.00

Voucher change 0.38

If input amount of voucher is less than total, the operation procedure is as follows:

Procedure	Description	Key operation	Display on 1st line	Display on 2nd line	Display on 3rd line	Display On the bottom line	Lit cursor
-----	Have done 2 transactions	-----[V1]	0.000	0.00	0.00	V1 P2 R 11.62	
next	Input voucher value 10.00€	[Y][1][0][0][0]	V1	TOTAL	11.62	V PAY 10.00	
next	* Press cash key [*] to pay the remained by cash	[*]	V1	REMAIN	1.62	C PAY 1.62	
next	Input cash value 2.00€	[2][0][0]	V1	REMAIN	1.62	C PAY 2.00	
next	Press cash key to give cash change and print ticket	[2][0][0]	V1	TOTAL	11.62	C CHG 0.38	

* Other payment key can be used at this time.

One example of the printed content is as follows:

Voucher 10.00

Cash 2.00

Cash Change 0.38

Or:

Voucher 10.00

Credit card: 1.62

4.6.3 Multi-vendor Operation

Vendor quantity (up to 4) can be set in setting item 409. If one vendor operates the scale, and one vendor wants to recall his own total when another vendor's total is displayed on the bottom line, the procedure is as follows:

☞ When only bottom line has content, the other lines are blank.

Procedure	Description	Key operation	Display on 1st line	Display on 2nd line	Display on 3rd line	Display on the bottom line	Lit cursor
-----	Only on bottom line shows V1's total					V1 P2 R 11.62	
Step1	Press [V2] to recall V2's total	[V2]				V2 P1 R 5.62	
Step2	Show V2's total amount and print his ticket	[*]	V2	TOTAL	11.62		

When unit price is not zero

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	Vendor 1's total is shown on the bottom line		0.400	15.80	6.72	V1 P2 R 11.62	
Step1	Clear unit price or PLU	[C]	0.400	0.00	0.00	V1 P2 R 11.62	
Step2	Press [V2] to recall V2's total	[V2]				V2 P1 R 5.62	
Step3	Show V2's total amount and print his ticket	[*]	V2	TOTAL	11.62		

4.6.4 Print Copy of the Ticket

In setting item 206, printing a copy of ticket can be set to enable. In this case, after printing the ticket, press [*] again, a copy of the ticket will be printed, and characters "COPY" will be shown on that ticket.

4.6.5 Save Ticket

In order to save a ticket, in setting item 203, you may select to accumulate transactions and not print the ticket.. This setting item has 3 parameters as follows:

0: print ticket: print ticket

1: No ticket: don't print ticket

2: Ticket: you may select whether to print or not

When parameter 2 is selected, after [*] is pressed, the procedure will be as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display On 3 rd line	Display on the bottom line	Lit cursor
-----	Show V2's subtotal		V2	TOTAL	11.62		
Step1	Default is to print ticket	[*]	V1	TOTAL	11.62	PRN T TICKET	
Step2	Select not to print ticket	[→T←]	V1	TOTAL	11.62	NO TICKET	
Step3	Don't print ticket	[*]	0.000	0.00	0.00	V1 TICKET	

4.6.6 Ticket Format

The default is to print discount price as follows:

Ling Discount -10%			
1.000	2.50	2.50	
	2.25		

If you want to use the below format, you may find it in setting item 229 by selecting parameter 0 (DISC UP/TP).

Ling Discount -10%			
1.000	2.50	2.50	
	2.25	2.25	

4.6.7 Suspend Transactions

One vendor can suspend transactions one time. The procedure to suspend or recall suspended transactions is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	Accumulate one transaction to subtotal	[V1]	0.500	0.00	0.00	V1 P2 R 11.62	
Step1	Remove items. Initiate suspend function	[MODE]+[Ⓢ]	0.000	0.00	0.00	SUSPEND	
Step2	Suspend the transaction of V1. Two continuous beeps will indicate suspend finished	[V1]	0.000	0.00	0.00	SUSPEND V1	
Step3	V1 may begins treating another customer	[1]	0.000	9.80	0.00	PLU 1	
Step4		-----				V1 P3 R 8.50	
Step5	Print the ticket	[*]	V1	TOTAL	8.50		
Step6	Recall the suspended transactions	[MODE]+[Ⓢ]	0.000	0.00	0.00	SUSPEND	
Step7	Recall V1's suspended transactions, then V1 can continuously treat that customer	[V1]	0.000	0.00	0.00	V1 P2 R 11.62	
Step8	Print the ticket	[*]	V1	TOTAL	11.62		

If one vendor has the suspended transactions and the current subtotal of this vendor is not zero, when you press [MODE]+[Ⓢ], "no more susp" will be shown for 1 second to indicate that this operation will be invalid.

4.6.8 Void Transaction

Before ticket is printed, any transactions can be cancelled.

For example: One customer bought 2 items, PLU 1: 0.5kg, and PLU 3: 0.4kg. Before ticket was printed, he wanted to cancel PLU 1. The procedure is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Recall PLU1	[1]	0.000	9.80	0.00	PLU 1	
Step3	Put item on the platter		0.500	9.80	4.90	PLU 1	
-----	Two transactions were finished		0.500	0.00	0.00	V1 P2 R 11.62	
next	Default to cancel the last transaction, here is PLU 3	[VOID]	0.500	-9.80	-4.90	PLU 3 VOID	
next	Use [↑] or [↓] to select the transaction needed	[↑]	0.500	-9.80	-4.90	PLU 1 VOID	
next	Confirm to void PLU1 and go back to weighing mode	[*]	0.500	0.00	0.00	V1 P1 R 4.62	

4.6.9 Cancel All Transactions

Before the ticket is printed, all transactions of one vendor can be cancelled. Notice, do not cancel the pending transaction of this vendor.

E.g.: One customer bought 4 items, then decided not to purchase before the ticket was printed. The following procedure will cancel the transaction:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	4 transactions had been accumulated	[V1]	0.000	0.00	0.00	V1 P4 R 44.90	
Step1	Cancel the last transaction	[Void]	0.400	-16.80	-6.72	PLU 3 VOID	
Step2	Cancel all transactions, and print void ticket	[V1]				VOID ALL	
Step3	1 second later scale goes back to weighing mode		0.00	0.00	0.00	V1 TICKET	

4.6.10 ST

After ticket is printed, items can be refunded.

One customer made a purchase and the printed ticket contains PLU2: 0.600kg, 8.90\$/kg, total 5.34\$, and etc. The procedures to refund are as follows:

Procedure	Description	Key operation	Display On 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step4	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step5	Initiate ST function, ST will shown in the bottom line	[MODE]+[ST]	0.000	0.00	0.00	V1 TICKET	ST
Step6	Recall PLU 2, but unit price is 10.80\$	[2]	0.000	-10.80	-0.00	PLU 2	ST
Step7	Change unit price	[PLU][8][9][0]	0.000	-8.90	0.00	PLU 2	ST
Step8	Put the item on the platter		0.400	-8.90	-5.34	PLU 2	ST
Step9	Accumulate this into total	[V1]	0.500	0.00	0.00	V1 P2 R -11.62	ST
Step10	Operate as normal transaction until finished	----					
Step11	Print the ST ticket	[*]	V1	TOTAL	-11.62	-11.62	ST
Step12	Return scale to sales mode	[*]	V1	TOTAL	-11.62	-11.62	ST

Pressing [MODE]+[ST] means pressing and holding [Mode] key, then pressing [Ⓢ] key

Notice

- The refunded items will be accumulated into Void/ST report only
- Only when subtotal and unit price is zero, the scale can exit ST mode and go back to sales mode by pressing [Mode]+[Ⓢ]

4.6.11 Discount Operation

Discount operation is related to the following setting items:

Setting item	422	423	424	425
Display	DISC KEY	DISC LOAD	DISC CHANGE	TEMP DISC
Description	Effecting of discount key	How to recall discount	[DISC] key change discount edited in setting item 116?	[DISC] set discount of PLU without edited discount

Parameters	0: Effect PLU and total 1: Effect unit price only 2: Effect total price only 3: Disabled	0: By discount key 1: Takes effect automatically	0: Can change 1: Can not change	0: May set 1: Can not set
Default parameter	0	0	1	0

For example: All related setting parameters are default, and one customer will buy two items:

PLU1: In S116, the set discount rate is -12%, unit price of PLU is 9.80\$, so the discounted unit price is 8.62\$.

PLU3: no discount set in S116. But -15% will be input

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Recall PLU1	[1]	0.000	9.80	0.00	PLU 1	
Step3	Put the item on the platter		0.500	9.80	4.90	PLU 1	
Step4	Discount takes effect	[DISC]	0.500	8.62	4.31	PLU 1	
Step5	Accumulate transaction	[V1]	0.500	0.00	0.00	V1 P1 R 4.31	
Step6	Remove item away from platter, and recall PLU3	[3]	0.000	16.80	0.00	PLU 3	
Step7	Please input the discount rate	[DISC]	0.000	16.80	0.00	DISC 0.00%	
Step8	Input discount rate: -15%	[1][5]	0.000	14.28	0.00	DISC -15%	
Step9	Put the item on the platter		0.400	14.28	5.71	PLU 3	
Step10	Accumulate transaction	[V1]	0.400	14.28	5.71	V1 P2 R 10.02	
Step11	Print ticket	[*]	V1	TOTAL	110.02		

4.6.12 Rebate

Rebate will be valid only on total amount. The related setting items are as follows:

Setting item	431	432	433	434
Display	DEFAULT CUT	CUT EFFECT	CUT KEY	CUT CHANGE
Description	Default rebate of total price	Default rebate becomes effect?	Key [-] enabled?	Key [-] can change default rebate?
	0: No rebate 1: Delete decimal fraction 2: Keep one digit decimal fraction 3: Keep two-digits decimal fractions	0: Become effect after [-] is pressed 1: Become effect automatically	0: Enabled 1: Disenabled	0: Can not change 1: Can change
Default	0	0	0	0

The procedures are as follows if all parameters are default:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	Weighing mode		V1	TOTAL	11.62	PAY 11.62	
Step1	The cent is deleted automatically	[-]	V1	TOTAL	11.60	CUT \$- 0.02	
Step2	Can not change the set rebate	[1][6][2]	V1	TOTAL	10.00	NO FUNCTION	
Step3	Default shows payment is the same as total amount	[*]	V1	TOTAL	10.00	PAY 10.00	
Step4	Print ticket and show change	[*]	V1	TOTAL	10.00	CHANGE 0.00	

4.6.13 Discount Card

Discount card is only valid for the total amount of the purchase. The same percentage will be discounted off the total amount. Once information of card is scanned, key [DISC] will be disabled. The card must be scanned before transaction, then all operation will be as normal, and discount rate will take effect automatically.

4.7 Operation in Label Printing Mode

4.7.1 Access to Label Printing Mode

To set the scale to print labels:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In ticket printing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Please input ID #	[Mode]				SETUP/SHIFT	
Step3	Input ID # 1 and password	[1][8][8][8][8][8]				PU*****	

	888888						
Step4	Access to setting 202	[*][2][0][2]	5 202		-----	PRIN TYPE	
Step5	Default is to print ticket	[*]	5 202		0	PRINTING TICKET	
Step6	Select to print label	[→T←]	5 202		1	PRINTING LABEL	
Step7	Confirm and access to next item	[*]	5 203		-----	PRINT?	
Step8	Go back to weighing mode	[Mode][Mode]	0.000	0.00	0.00	V1 LABEL	

4.7.2 Print Label

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 LABEL	
Step2	Recall PLU1	[1]	0.000	9.80	0.00	PLU 1	
Step3	Put item on the platter		0.500	9.80	4.90	PLU 1	

When press vendor key, there are 3 available results depending setting item 214.

1) When select parameter 0: Print label, but the transaction will not be accumulated

Step4	Print label	[V1]	0.500	9.80	4.90	PLU 1	
-------	-------------	------	-------	------	------	-------	--

2) When select parameter 1: Print label and the transaction will be accumulated, then press [*] may show Subtotal, and print total label.

Step4	Print label of this transaction	[V1]	0.500	9.80	4.90	V1 P1 R 4.90	
Step5	Print total label	[*]	V1	TOTAL	11.62		

3) When select parameter 2: Don't print label, but the transaction will be accumulated, and press [*] may show total amount, and print total label.

Step4	Don't print label	[V1]	0.500	9.80	4.90	V1 P1 R 4.90	
Step5	Print total label	[*]	V1	TOTAL	11.62		

Other operations in label printing mode are same as in the ticket printing mode.

4.7.3 Label Format

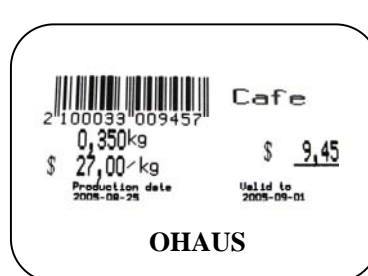
101#: 40x50 mm



102#: 40x50 mm



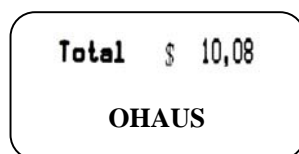
103#: 35x50 mm



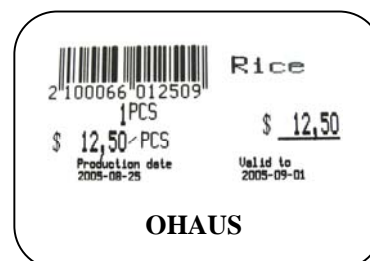
104#: 35x50 mm



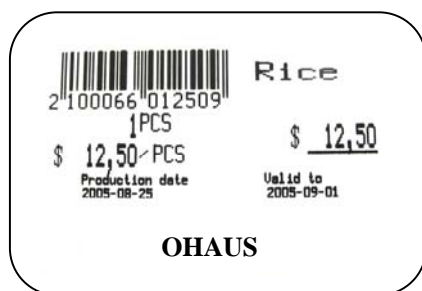
105#: 20x40 mm



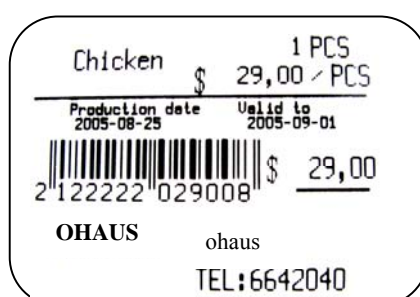
106#: 35x50 mm



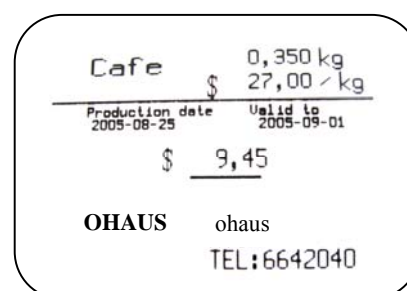
107#: 35x40 mm



108#: 35x40 mm



109#: 35x40 mm



4.8 Prepack

4.8.1 Access to Prepack Mode

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Sales mode		0.000	0.00	0.00	V1 LABEL	
Step2	Default is sales mode	[Mode][1][8][8][8][8][*]	GR 01		-----	INFO INPUT	
Step3	Default is sales mode	[4][1][9][*]	5 419		0	SALES	
Step4	Select prepack mode	[→T←]	5 419		1	PREPACK	
Step5	Go to next item	[*]	5 420		-----	W TO QTY	
Step6	Exit setting mode and go back to weighing mode	[Mode][Mode]	0.000	0.00	0.00	V1 TICKET	Prepack

4.8.2 Prepack in Ticket Printing Mode

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	Prepack
Step2	Recall by count type PLU 1	[1]	CN 1	2.00	2.00	PLU 1	Prepack
Step3	Accumulate transaction to V1	[V1]	CN 1	2.00	2.00	V1 P1 R 2.00	Prepack
Step4	Recall by weight type PLU 2	[2]	0.000	3.00	0.00	PLU 2	Prepack
Step5	Put the item on the platter		1.000	3.00	3.00	PLU 2	Prepack
Step6	Accumulates transaction to V1 automatically when weight becomes stable		1.000	0.00	0.00	V1 P2 R 5.00	Prepack
Step7	Print the ticket	[*]	V1	TOTAL	5.00		

4.8.3 Prepack in Label Printing Mode

☞ To by weight type PLU, prepack operation is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 LABEL	Prepack
Step2	Recall by weight type PLU 2	[2]	0.000	3.00	0.00	PLU 2	Prepack
Step3	Put the item on the platter		1.000	3.00	3.00	PLU 2	Prepack
Step4	Print the label and accumulate transaction to V1 automatically when weight becomes stable		1.000	3.00	3.00	PLU 2	Prepack

☞ To by count type PLU, prepack operation is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	Prepack
Step2	Recall by count type PLU 1	[1]	CN 1	2.00	2.00	PLU 1	Prepack
Step3	Please input the label quantity	[*]	CN 1	2.00	0	LABEL QTY 0	Prepack
Step4	Input the label quantity 8	[8]	CN 1	2.00	8	LABEL QTY 8	Prepack
Step5	Show the quantity of the printed label	[*]				PRINTING 5	

Step6	Go back to weighing mode when finished		0.000	0.00	0.00		Prepack
-------	--	--	-------	------	------	--	---------

4.9 Large Sale

If the weight of item to be weighed is more than the scale's capacity, you may input its weight value in large sale mode. The following shows how to get into and operate in large sale mode.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	√1 TICKET	
Step2	Recall PLU1	[1]	0.000	2.00	0.00	PLU 1	
Step3	Initiate large sale mode	[MODE]+[LS]	0.000	2.00	0.00	PLU 1	LS
Step4	Input the weight value: 35.000kg	[3][5][0][0][0]	35.000	2.00	70.00	PLU 1	LS
Step5	Accumulate transaction	[V1]	0.000	0.00	0.00	√1 P1 R 75.00	
-----	Continue other transactions						

4.10 100g Function

When setting 4xx is enabled this means 100g is enabled. Operation related 100g function is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	In weighing mode, recall PLU3		1.000	2.00	2.00	PLU 3	
Step1	The weight unit of unit price changes to 100g	[MODE]+[100g]	1.000	0.200	2.00	PLU 3	100g
Step2	The weight unit of unit price changes to kg	[MODE]+[100g]	1.000	2.00	2.00	PLU 3	

On ticket or label, weight unit of unit price is kg only, no 100g, even 100g can be shown.

4.11 Show Data and Time

☞ Sleep mode

If there is no key operation or weight change for about 3 minutes, the scale will go to sleep mode. At this time, the time and date will show on the display. This mode will save power. When the weight changes or any key is pressed, the scale will go back to weighing mode immediately.

☞ Show date/time

At any time, you may toggle between displaying date and time, or back to weighing mode by following the operation below:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	√1 TICKET	
Step2	Show date and time	[Mode]+[Disc]		08:08:00	04-06-18		
Step3	Back to weighing mode	[Mode]+[Disc]	0.000	0.00	0.00	√1 TICKET	

4.12 Backlight

Scale is equipped with a backlight for the display. If ambient lighting conditions are not sufficient, the backlight can be switched on to easily read the display.

To activate backlight, press and hold [C] key until a long beep is heard and the backlight turns on.

Use the same procedure to switch the backlight off, or simply turn the scale off.

When the scale is powered by battery, and not used for 1 minute, the backlight will automatically switch off. When weight is placed on the platter or a key is pressed, the backlight will switch on again.

When the power is AC power, the backlight will always be on.

5 Setup

Below is a description of all setting groups in the setup mode that be operated by the customer. A password is needed to access the set up mode. Once in set up mode, the authority given by the password will allow certain setting items to be edited.

5.1 Key Function in Setup Mode

Key	Function
[Mode/↑]	Setup mode key to access to or exit setup mode;
[x]	Go back to last step
[→T←]	Select parameter in one setting item, or go forward to next setting or next group
[*]	Enter key to confirm the selection and go to next step
[C]	Clear
[0]~[9]	Number key to Insert number
[A]~[Z]	Insert capital letter: A~Z Insert the Lower case letters: a~z Insert punctuations: e.g. [,], ? and so on
[↺↻]	Switch among capital, small letter and punctuation modes
[←]	Move cursor left to previous character
[→]	Move cursor right to next character
[]	Insert space
[↓]	Get the weight or go to the next line of the text
[↑]	Go to the last line of the text

5.2 Quick Key (on-the-fly function)

5.2.1 Quick Key Location

Quick keys are preset in the left 30 keys. The location is as follows:

PLU Edit	Print Promotion	Settle Amount	Group Report	Sales /Prepack	Quick Key List
PLU Price Change	Discount Edit	Combination Report	Group Hourly Report	Void/ST Report	Internal Parameter
Group Edit	Raffle Edit	Sales Report	Promotion Report	Weekly Report	
Purchase Edit	Gift Edit	PLU Report	Vendor Report	Delete Reports	Paper Test
Inventory Checking		Hourly Report	Purchase /Inventory /Sales Report	Delete All Reports	Paper Out

5.2.2 Function of the Quick Key

☞ 4 Function quick key

[Quick key list]: Press [Mode] and this key to print the location of all quick keys.

[Internal parameter]: Press [Mode] and this key to print the internal parameters of the scale.

[Test paper]: Press [Mode] and this key to test paper, especially test label.

[Paper out]: Press [Mode], and this key to print line by line until the paper is released by the scale.

☞ Printing quick key

Printing quick key includes various report quick keys and Print promotion. To print PLU report, please follow the steps below:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 LABEL	
Step2	Please press quick key	[Mode]				SETUP/SHIFT	
Step3	Press quick key	[PLU report]				ID	
Step4	Insert ID # and password	[1][8][8][8][8][8]				PU*****	
Step5	Print report and go back to weighing mode	[*]	0.000	0.00	0.00	V1 LABEL	

Setup quick key

All quick keys, except of function quick keys and printing quick keys, are setup quick key. Their operation is as follows. E.g. Edit PLU

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 LABEL	
Step2	Please press quick key	[Mode]				SETUP/SHIFT	
Step3	Press quick key	[Edit PLU]				ID	
Step4	Insert ID # and password	[1][8][8][8][8][8]				PU*****	
Step5	Access to edit PLU setting item directly	[*]	S 101		1	PLU NUMBER	
-----	Edit PLU						
Step6	Exit to weighing mode	[Mode]	0.000	0.00	0.00	V1 LABEL	

In setup mode, when "GR XX" is shown on the 1st line, press setup quick key or printing quick key, and scale will access the related setup item directly.

5.3 Access to Setup Mode

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Ready to weigh		0.000	0.00	0.00	V1 TICKET	
Step2	Waiting to insert ID code	[Mode]				SETUP/SHIFT	
Step3	Insert manager's id code [2]	[2]				PU	
Step4	Insert manager's password	[6][6][6][6][6][6]				PU *****	
Step5	Access to setup mode, in group 1	[*]	GR 01		-----	INFO INPUT	

Notice: Wrong Id or password will return scale back to weighing mode.

If there is not a password for an ID code, access setup mode directly after that ID is entered.

Please refer to Group 8 "password" for detail.

5.3.1 Access to Some Item

After accessing setup mode, there are 3 ways to get to an item.

- 1) Insert item # to get to an item.
- 2) Use [→T←] and [*] to get to an item.
- 3) Press quick key to get to an item.

With regard to item #, please check the setting item list.

For example: to get to setting item 602

Insert item no. to get to setting item

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	In setup mode, "GR XX" is shown. e.g. "Gr 01"		GR 01		-----	INFO INPUT	
Step1	Insert item #	[6][0][2]	S 602		-----	SALES REPORT	
Step2	Access to item 602 directly	[*]	S 602		05-05-25	TODAY	

Use keys [→T←] and [*] to get to setting item

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	In setup mode, "GR XX" is shown. e.g. "Gr 01"		GR 01		-----	INFO INPUT	
Step1	Get to group 6	[→T←] 5times	GR 06		-----	REPORT	
Step2	Access to 1st item (601) of group 6	[*]	S 601		-----	RPT DEFAULT	

Step3	Select 2nd item (602) of group 6	[→T←]	S 602		-----	SALES REPORT	
Step4	Access to item 602 directly	[*]	S 602		05-05-25	TODAY	

Press quick key to get to setting item

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	In setup mode, "GR XX" is shown. e.g. "Gr 01"		GR 01		-----	INFO INPUT	
Step1	Access to item 602 directly	[Sales report]	S 602		05-05-25	TODAY	

5.3.2 Exit Setup Mode

Press [Mode] several times in setup mode to exit.

5.4 Setting Group**5.4.1 Data Entry (Group 1)**

This group is used to insert all data for normal operation. The chart below contains all setting items in this group.

Item #	Shown on the display	Description
101	PLU EDIT	Edit PLU information
102	PRICE CHANGE	Change PLU price only
103	PLU CONTENT	Set which items of PLU are visible
104	GROUP EDIT	Edit group information
105	VENDOR EDIT	Edit vendor information
106	DATE/TIME	Edit date and time
107	SHOP EDIT	Edit store name
108	SCALE NO.	Edit scale #
109	HEAD/FOOTER	Edit header and footer of the ticket
110	EXTRA TEXT	Edit extra information
111	TARE EDIT	Edit tare information
112	BAR CODE	Edit bar code format
113	BAR C VS T/L	Edit relationship between bar code format and ticket/label/total label format
114	INVENTORY	Update Purchase information
115	SETTLE	Settle inventory
116	DISCOUNT	Edit discount information
117	GIFT EDIT	Edit gift information
118	DISC CARD	Edit discount card information
119	RAFFLE	Edit raffle information
120	PRN PROMOTE	Print promotion information
121	PRODUCT DATE	Change production date
122	PRINT PLU	Print PLU list

5.4.1.1 Edit PLU Information (Setting item 101)**The structure of PLU**

A PLU includes following 13 items:

- | | | |
|--------------------|--|--------------------|
| 1) PLU number | 6) Unit price | 11) BEST before |
| 2) Item number | 7) Quantity (by count type PLU only) | 12) Label format # |
| 3) Description | 8) Fix weight (by count type PLU only) | 13) Extra text # |
| 4) Group number | 9) Tare # | |
| 5) Unit price type | 10) Sell before | |

When editing a PLU, some items can be seen and some may not be seen. This depends on the setting in setting item 103.

When an item is on in setting item 103, it can be edited in default mode. Only the following items may be edited:

- PLU
- Description
- Unit price type
- Unit price

Edit PLU

E.g. Edit Berry's information

PLU #	Description	Unit price type	Unit price
88	Berry	By weight	\$1.80/kg
100	Apple	By count	\$0.5/pcs

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to item 101 to edit PLU information	[1][0][1]	5 101		-----	PLU EDIT	
Step3	Begin to edit PLU. Please insert PLU #	[*]			1	PLU NUMBER	5 101
Step4	Insert PLU# 88, valid date is 1~9999	[8][8]			88	PLU NUMBER	5 101
Step5	Please insert description. L* means the insert letters will be capital; 1 means insert character is the 1st character.	[*]	L	1		-	
Step6	Insert description: Berry	[B][↺] [e][r][r][y]	5	6		BERRY	
Step7	Select price type. Default is by weight, by count is available by pressing [→T←] key	[*]				BY WEIGHT	
Step8	Please insert unit price	[*]			0.00	UNIT PRICE	
Step9	Insert unit price: \$1.80/kg	[1][8][0]			1.80	UNIT PRICE	
Step10	Please save PLU. Press [→T←] key may abort this edition, show "PLU abort"	[*]				PLU SAVE	
Step11	*Print edited PLU information and edit next PLU	[*]			89	PLU NUMBER	
Step12	Insert PLU# 100	[1][0][0]			100	PLU NUMBER	
Step13	Please insert description	[*]	L	1		-	
Step14	Insert description: Apple	[A][↺] [p][p][l][e]	5	6		APPLE	
Step15	Select price type	[*]				BY WEIGHT	
Step16	Select by count price type	[→T←]				BY COUNT	
Step17	Please insert unit price	[*]			0.00	UNIT PRICE	
Step18	Insert unit price: \$0.50/pcs	[5][0]			0.50	UNIT PRICE	
Step19	Please save PLU	[*]				PLU SAVE	
Step20	Print and edit next PLU	[*]			101	PLU NUMBER	
Step21	Exit item 101, and go to next item 102	[Mode]	5 102		-----	PRICE CHANGE	

Notice: If you exit before saving PLU, the edited content of this PLU will abort.

The unit price you can input for one PLU is from 0 to 9999.99.

* Printing or not printing edited content depends on setting item 404. "Print edit content", default is to print the edited content.

＝ To insert text:

In text edit mode, there are 4 ways to insert text. Press [↺] to switch between these options.

"L" on the 1st line means the inserted character will be capital;

"S" means the inserted characters will be lower case;

"," means the inserted characters will be punctuation.

"C" means the character can not be inserted directly; Unicode will be inserted for character. "m" on the bottom line shows one character has been inserted.

In Unicode status, [↓] is used to move flashing cursor up and down.

＝ To Insert a Space:

When "L" or "S" or "," is shown, press [↓] to add one space behind the character. You may also insert a space by pressing [▶] when the cursor is to the right of the characters.

Notice: In Unicode status, a space can not be inserted.

PLU List		
Scale No.: 1 2005-3-12 08:30:00		
PLU No.	Description	\$/kg(PCS)
88	Berry	1.80\$

--End--		

Preset PLU into preset key

⇒ One Preset Key Stores One PLU

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Press and hold preset key for about 3 seconds	[A]			L 1	PLU 0	
Step3	*Insert PLU #	[8][8]			L 1	PLU 88	
Step4	Two continuous beeps indicate the PLU has been preset.	[*]	0.000	0.00	0.00	V1 TICKET	

⇒ One Preset Key Stores Two PLUs

If "One preset key stores two Plus" is enabled in setting item 405, and the default is "disabled", one PLU can be preset in one preset key by following the above 4 steps.

To preset two PLUs in the same preset key, please follow the steps below:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00	V1 TICKET	
Step2	Press and hold preset key for about 3 seconds	[A]			L 1	PLU 0	
Step3	After "PLU 0" is shown, release the key, then press same key again until see "L 2"	[A]			L 2	PLU 0	
Step4	**Insert PLU #	[8][8]			L 2	PLU 88	
Step5	Two continuous beeps indicate the PLU has been preset.	[*]	0.000	0.00	0.00	V1 TICKET	

** "L 1" means 1st level PLU, "L 2" means 2nd level PLU

**If PLU number is 0, then no PLU is in this preset key.

⇒ Recall PLU

Press a preset key to recall PLU stored in level 1. Double click a preset key twice to recall PLU in level 2.

5.4.1.2 Change PLU Price only (102)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	In setup mode, "GR XX" is shown. e.g. "Gr 01"		GR 01		-----	INFO INPUT	
Step1	Confirm PLU #, please change price.	[1][0][2]	S 102		-----	PRICE CHANGE	
Step2	Edit PLU's price	[*]	S 102	3.00	PLU 1	BERRY	
Step3	Insert PLU #, show its current price and description	[8][8]	S 102	1.80	PLU 88	BERRY	
Step4	Insert new price	[*][5][0][0]	S 102	5.00	PLU 88	UNIT PRICE	
Step5	Print the change and proceed to next existing PLU	[*]	S 102	9.00	PLU 89	BEEF	
Step6	Insert PLU #, show its current price and description	[3]	S 102	8.00	PLU 3	STEAK	
Step7	Insert new price	[*][6][5][0]	S 102	6.50	3	UNIT PRICE	
Step8	Continue until finished	-----				GETTING PLU	
Step9	Press [mode] to exit and go to next setting item.	[Mode]	S 103		-----	PLU CONTENT	

The price change list is as follows:

PLU Price Change List			
Scale No:1 2005-3-12 08:30:00			
PLU No.	Description	Original	New
1	Steak	5.23	5.00
2	Apple	9.00	8.00
--End--			

5.4.1.3 Define the Content of PLU (103)

11 items of a PLU can be defined as visible (can be seen) or invisible (can not be seen) when editing a PLU in setting item 101.

Id #	Items in a PLU		Parameter	
	Displayed on the bottom line	Description	Default displayed on the bottom line	Description
1	ITEM NO.	Item no.	OFF	invisible
2	DESCRIPT	Description	ON	Visible
3	GROUP	Group no.	OFF	invisible
4	PRICE	Unit price	ON	Visible
5	QUANTITY	Quantity	ON	visible
6	FIX WT	Fix weight	OFF	invisible
7	TARE NO.	Tare no.	OFF	invisible
8	SELL BY	Sell by	OFF	invisible
9	BEST BEF	Best before	OFF	invisible
10	LABEL NO.	Label format no.	OFF	invisible
11	EXT TEXT	Extra text	OFF	invisible

Notice: the sell offset and best before days can be set from 0 to 999;

The fix weight can be set from 0 to 999999.

E.g.: Let group # be visible when editing PLU information.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1		-----	GR 1		-----	INFO INPUT	
Step2	Off: Invisible	[1][0][3][*]	S 103		ID 1	ITEM NO. OFF	
Step3		[*][*]	S 103		ID 1	GROUP OFF	
Step4	Change to On: Visible	[→T←]	S 103		ID 3	GROUP ON	
Step5	Confirm	[*]	S 103		ID 4	PRICE ON	
Step6	Change other items if needed	----	----		----	----	
Next	Exit and print, then go to next setting item	[*]	S 103		---		
Next			S 104			GROUP EDIT	

PLU content list lists all visible items. For example:

PLU content List	
Scale No.: 1 2005-3-12 08:30:00	
2	Description
3	Group No.
4	unit price
5	Count
--End--	

5.4.1.4 Edit Group Information (104)

There are 20 groups. To edit group information, please see below:

VAT

VAT can be edited when editing group is enabled. VAT can be enabled or disabled through the setting in setting item 410.

Edit group

e.g.:

Group #	Description	Tax
8	FOOD	6.00%

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit Cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	VAT is disenabled	[4][1][0][*]	S 410		1	NO VAT	

Step3	VAT is enabled	[→T←1]	S 410		0	VAT PERMIT	
Step4	Confirm and go to next item	[*]	S 411		-----	TARE/P CLEAR	
Step5	Get to setting 104. Default is group 1	[Mode][1][0][4] [*]	S 104		GRP 1	GROUP NO.	
Step6	Insert group no. 8	[8]	S 104		GRP 8	GROUP NO.	
Step7	Please insert description of group 8	[*]	L	1			
Step8	Insert description "FOOD"	[F][0][0][D]	L	5		FOOD	
Step9	Please insert VAT rate	[*]			0.00	INPUT VAT %	
Step10	Insert tax rate 6.00%	[6][0][0]			6.00	INPUT VAT %	
Step11	Print and begin next group edit	[*]			GRP 9	GROUP NO.	
Step12		-----					
Step13	Exit and go to next item	[Mode]	S 105		-----	VENDOR EDIT	

Print edited group information

Group List		
Scale No.: 1 2005-3-12 08:30:00		
Group No.	Description	VAT
1	FOOD	6.00%
--End--		

5.4.1.5 Edit Vendor Information (105)

There are 4 vendors. The procedure to edit is as follows. E.g.: Vendor 1, name is SUSAN.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step5	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INSERT	
Step6	Get to setting 105. Default is Vendor 1	[1][0][5] [*]	S 105		1	VENDOR NO.	
Step7	Please insert name	[*]	S 105	L 1			
Step8	Insert name (at most 19 characters)	[S][U][S][A][N]	S 105	L 6		SUSAN	
Step9	Print and begin to edit next one	[*]			2	VENDOR NO.	
Step10		-----					
Step11	Exit and go to next item	[MODE]	106		-----	DATA/TIME	

Printed edited vendor information

Vendor List	
Scale No.: 1 2005-3-12 08:30:00	
#	Name
1	Susan
2	Mary
--End--	

5.4.1.6 Edit Data and Time (106)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. E.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to setting 106. And show date type	[1][0][6] [*]	S 106		04-08-18	YY-MM-DD	
Step3	There are 3 kinds. YY: year, MM: month, DD: day. Select MM-DD-YY	[→T←]			08-18-04	MM-DD-YY	
Step4	Change date to 03-23-05	[*][0][3][2][3][0][5]			03-23-05	MM-DD-YY	
Step5	Change time	[*]	S 106	08:18:00		HH-MM-SS	
Step6	Exit and go to next item	[*]	S 107		-----	SHOP EDIT	

Very Important Notice

In step 5 or step 6, if the new input date or time is earlier than the current, once it is confirmed, all transaction data will be deleted. So please be careful about it. Meanwhile more steps are added below to avoid misoperation.

E.g.: The input date is earlier than current date. Same thing is to time.

	Please confirm. Default is not to change "NO"	[*]			04-04-18	CHANGE NO	
next	Go back to last step to input new date	[*]			04-05-18		

If select to change, the operation is as follows:

	Please confirm. Select to change "YES"	[→T←]			04-04-18	CHANGE YES	
next	Confirm and do to next step	[*]		08:18:00		HH-MM-SS	

5.4.1.7 Edit Store Name (107)

E.g.: Store address is:

OHAUS
PINE BROOK NJ

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to setting 107.	[1][0][7]	S 107		-----	SHOP EDIT	
Step3	Please insert the 1st line	[*]	L	1 1			
Step4	Insert 1st line	[O][H][A][U][S]	L	1* 15**		OHAUS	
Step5	Press [↓] to edit 2nd line	[↓][P][U][N][E][L][B][R] [O][O][K] [L][N][J]	L	2 6		PINE BROOK NJ	
Step6	Finish edit and go to next item	[*]	S 108		-----	SCALE NO.	

* It is the line number of the text.

** It is the character number of one line.

Notice: you can input 32 characters each line and you can input 69 characters in total.

The printed address

Store Address
OHAUS
PINE BROOK NJ

5.4.1.8 Edit Scale Number (108)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to setting 108.	[1][0][8][*]	S 108		-----	SCALE NO.	
Step3	The default No. is 1	[*]	S 108		1	SCALE NO.	
Step4	Insert the scale number (1~99)	[5]	S 108		5	SCALE NO.	
Step5	Finish edit and go to next item	[*]	S 109		-----	HEADER/FOOT	

5.4.1.9 Edit Header and Footer of the Ticket (109)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to setting 109.	[1][0][9]	S 109		-----	HEADER/FOOT	
Step3	Default to edit header, press [→T←] may select to edit footer	[*]	S 109	1 1		HEADER TEXT	
Step4	Default to edit 1st line of header	[*]	L	1 1			
Step5	Insert OHAUS	[O][H][A][U][S]	L	1 15		OHAUS	
Step6	Edit footer	[*]				FOOTER TEXT	
Step7	Insert the 1st of the footer	[*][Y][O][U][L][A][R][E] [W][E][L][C][O][M][E]	L	1 16		YOU ARE WELCOME	
Step8	Edit the 2nd line	[1][T][E][L][C][O][N] [6][6][4][2][0][4][0]	L	2 12		TEL 6642040	

Step9	Finish edit and go to next item	[*]	110	-----	EXTRA TEXT	
-------	---------------------------------	-----	-----	-------	------------	--

Notice: you can input 32 characters each line and you can input 139 characters in total.

The printed header and footer

Header	OHAUS
Footer	YOU ARE WELCOME TEL:6642040

5.4.1.10 Edit Extra Text (110)

There are 50 extra texts.

Procedure	Description	Key Operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to setting 110	[1][1][0]	S 110		-----	EXTRA TEXT	
Step3	Default to edit extra 1, insert No. 3.	[*][3]	S 110		TEXT 3		
Step4	Edit the 1st line of the extra text	[*]	L	1 1			
Step5	Insert TEMP: -5°C	[B][E][E][F]	L	1 5		BEEF	
Step6	Edit 2nd line	[↓][T][E][M][P][.][↶] [↶][.][↶][↶][5] [↶][↶][U][↶][↶][C]	L	2 10		TEMP -5°C	
Step7	Print the edited and go to edit the next	[*]			TEXT 4		
Step8	Exit and go to next item	[mode]	S 111		-----	TARE EDIT	

Print the edited extra text as follows:

Extra Text
#3:
BEEF
TEMP: -5°C
--End--

5.4.1.11 Edit Tare Information (111)

There are 20 tare values

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to setting 111	[1][1][1]	S 111		-----	TARE EDIT	
Step3	Default to edit tare 1	[*]	S 111		TARE 1	TARE NO.	
Step4	Edit tare 3	[3][*]	S 111		TARE 3	TARE NO.	
Step5	Please insert tare value		S 111	0.000	TARE 3	TARE 0.000	
Step6	Insert tare 0.200kg	[2][0][0]	S 111	0.000	TARE 3	TARE 0.200	
Step7	Edit tare 5	[*][5][*]	S 111	0.000	TARE 5	TARE 0.000	
Step8	The weigh is 0.560kg	Put the container on the platter	S 111	0.560	TARE 5	TARE 0.000	
Step9	Take the weight as tare value	[↓]	S 111	0.560	TARE 5	TARE 0.560	
Step10	Edit next	[*]	S 111		TARE 6	TARE NO.	
Step11	Exit and go to next item	[MODE]	S 112		-----	BAR CODE	

Notice: tare can be set from 0 to 999.999g.

The edited tare information will be printed as follows:

Tare List
Scale No.: 1 2005-3-12 08:30:00
tare
3 0.200kg
5

0.560kg

--End--

5.4.1.12 Edit Bar Code Format (112)

There are 7 bar code formats, including EAN13, EAN8 and code 39, code 25, ean128, upc8, 13+5 code. The following lists all available parameters in the format structure.

Parameter	Instruction	Remark	Available format
0~9	Digits	Up to 12 digits	
A	Item #	4, 5 or 6 up to 12 digits	
B	Amount	4, 5, 6 or 7 digits	The digits behind decimal point may be 0,1,2 or 3
C	Check sum	1 digit	
N	Ticket #	4 digits	
P	PLU#	4 digits	
Q	Weight /Quantity	4 or 5 digits	Weight: The digits behind decimal point may be 2 or 3 Quantity: 0,1,2,3,4
W	Group #	2 digits	

If the actual digits are less than the defined quantity, 0 will be added in front of the data.

For example:

Bar code type	Example	Remark
EAN 13	21AAAAABBBBBC=21+5-digit item #+5-digit amount+1digit check sum	13 digits

Notice: If the first 2 characters of the format are fixed number, e.g. 21AAAAABBBBBC, those two digits are regarded as identification code (ID code), which can not be repeated. If it is repeated, "rept bar" will be shown to indicate the ID code has been used, please use another one.

The procedure to edit is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "GR 01"	-----	GR 01		-----	INFO INPUT	
Step2	Get to setting 112 by inserting item #	[1][1][2] [*]	S 112			BAR CODE	
Step3	Default to edit bar code 1 (1~12)	[*]	S 112	BAR 1			
Step4	Default is EAN13, press [→T←] to select other format	[*]	S 112	BAR 1	EAN 13		
Step5	Insert content	[2][1][A][A]---	S 112	BAR 1	EAN 13	21AAAAABBBBBC	
Step6	Right shift of A: 2 bites	[*][▶][▶]	S 112	BAR 1	2*	A SHIFT	
Step7	Left shift of B: 1 bite	[*][◀]	S 112	BAR 1	-1*	B SHIFT	
Step8	Check sum type: 1 (1: normal, 2: reverse)	[*]	S 112	BAR 1	1	C- PARITY*	
Step9	Print and edit next one	[*]	S 112	BAR 2	EAN 13		
Step10	Edit other bar code if needed	-----	S 112	-----	-----	-----	
Step11	Exit and got to next item	[MODE]	S 113				

When one bar code contains parameter Q, in the step to select shift, you will see Q/W and Q/Q. Q/W is for by weight PLU, and Q/Q is for by count PLU.

If a format contains 2 digits (0~9) at the beginning, we call these 2 digits as ID code. This ID code can not be used again in other formats. If this ID code is used by other barcode format or discount card, "REPT BAR XX" (it means this ID code has been used by bar code format XX) or "REPT CARD G" (it means this ID code has been used by gold card) or "REPT CARD S" (This means this ID code has been used by silver card) will be shown.

* Positive data means right shift, negative data means left shift, and the default is 0. Each parameter of bar code is related to the others, so the content will not be saved until you go to the last step.

** When decode, if one bar code format contains A or P, follow the rule in the format edit to shift the bites according to PLU's price type by weight or by count.

There are 12 bar code formats (1~12). The default format for ticket is 1, for label it is 2.

The printed bar code format.

Bar Code Format List			
Scale	1	2005-03-12-	08:30:00
#	Type	Format	
1	EAN13	21AAAAAABBBBC	
2	EAN13	23AAAAAABBBBBC	
--End--			

5.4.1.13 The Relationship between Label/Ticket Format and Bar Code Format (113)

The procedure to edit bar code format is as follows:

Procedure	Description	Key operation	Display On 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INSERT	
Step2	Access to item 113	[1][1][3]	S 113		-----	BAR C VS T/L	
Step3	Select ticket	[*]	S 113		TICKET		
Step4	Select label	[→T←]	S 113		LABEL		
Step5	Insert the ticket format #	[*]	S 113		LABEL 1		
Step6	Insert the bar code format #	[*][3]	S 113		LABEL 1	BAR CODE 3	
Step7	Save and edit next	[*]	S 113		LABEL 2		
Step8	Exit the last level	[Mode]	S 113		LABEL		
Step9	Exit and go to next item	[Mode]	S 114		-----	INVENTORY	

There are 10 fixed label formats (101~110) and 10 free label formats (1~10)

The Printed corresponding relationship

Label/Ticket VS Bar Code Format List		
Scale No.: 1 2005-3-12 08:30:00		
	Bar code #	Type
Ticket 1	1	EAN 13
		23AAAAABBBBBBC
Label 101	1	EAN 13
		23AAAAABBBBBBC
--End--		

5.4.1.14 Update Stock (114)

E.g.: One store stocks the following goods in the morning, and wants to insert the data into scale, and clear all stock before doing so:

PLU #	Description	Weight (kg)/Quantity (PCS)
1	Cooked bean curd bun	200
3	Beef	10kg
4	Stick	50kg

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to item 114	[1][1][4]	S 114		-----	INVENTORY	
Step3	Default is No, which means to add stock	[*]				CLEAR NO	
Step4	Select yes to clear all stock	[→T←]				CLEAR ALL	
Step5	Insert PLU #, default is 1	[*]		0	PLU 1	*+ 0	

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Step6	Insert the quantity of PLU 1: 200	[*][2][0][0]		0	PLU 1	+ 200	
Step7	Edit the next PLU.	[*]	0.000	0.000	PLU 2	+ 0.000	
Step8	Insert the PLU #: 3	[3][*]	0.000	0.000	PLU 3	+ 0.000	
Step9	The weight will show in the weight window	Put on the items	10.000	0.000	PLU 3	+ 0.000	
Step10	Take the weight as stock insert	[↓]	10.000	0.000	PLU 3	+ 10.000	
Step11	Remove the items and edit next PLU	[*]		0.000	PLU 4	+ 0.000	
Step12	Insert the weight via keyboard directly	[*][5][0][0][0][0]	0.000	0.000	PLU 4	+ 50.000	
Step13	Edit next PLU	[*]		0.000	PLU 5	+ 0.000	
Step14	Exit and go to next item	[MODE]	115			---	

Notice: the purchase quantity is : 0~999.999(by weight), 0~999999(by count).

The printed stock list

Purchase List		
Scale 1	2005-03-12	08:30:00
Inventory	Add	Total
PLU1 COOKED BEANCURD BUN		
0	200	200
PLU3 BEEF		
0	10	10
PLU4 STICK		
0	50	50
Weight: kg; QTY: PCS		
--End--		
Signature:		

5.4.1.15 Settle the Inventory (115)

E.g.: When business is over, employees begin to settle the inventory, and use the actual data as stock.

PLU #	Description	Actual Weight (kg)/Quantity (PCS)
1	Cooked bean curd bun	20
3	Beef	2kg
4	Stick	3kg

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Begin to settle, and "update NO" means not to use the actual inventory as the stock.	[1][1][5][*]	S 115			UPDATE NO	
Step3	Select yes, which means to use actual data as stock	[→T←]	S 115			UPDATE YES	
Step4	Settle first PLU: PLU 1	[*]		20*	PLU 1	0	
Step5	Insert the actual quantity: 20	[*][2][0]		20	PLU 1	20	
Step6	Default is to edit next PLU, insert PLU # 3	[*][3]		0.950	PLU 3	0.000	
Step7	Please insert the weight of PLU 3	[*]	0.000	0.950	PLU 2	0.000	
Step8	Put the items on the platter .The weight display window will show the weight		0.050	0.950	PLU 2	0.000	
Step9	Take the weight as insert	[↓]	0.050	0.950	PLU 2	0.050	
Step10	Edit next PLU	[*]		0.950	PLU 3	0.000	
Step11	Exit and go to next item	[Mode]	S 116		-----	DISCOUNT	

* This data is the calculated inventory based on the stock and sales.

Notice: the update quantity is: 0~999999(by count) and 0~999.999(by weight).

The printed inventory check list

Inventory Check List		
Scale No:1	2005-03-24	08:30:00
Calculated	Actual	Error

PLU1 BEANCURD BUN			
20	20	0	
PLU3 BEEF			
0.95	0.05	0.9	
	Weight: kg; QTY: PCS		
--End--			
Signature			

Notice: The lost rate in the report "Stock/sale/inventory report" is based on the inserted data here.

5.4.1.16 Edit Discount Information (116)

There are two types of discount, percentage and new price. To total price, all items or group, only percentage discount is available. For one item, you may select percentage discount or new price.

For example: Date: from 04-05-18 to 05-05-18 Time 9:30:00~19:30:00 (If date or time is 0, it means no limit)

The priority of discount (from highest to lowest) is PLU, then group, and then all items

	Total price	All Item	Group	Grape	Apple
		All items	Group 4	Plu 1	Plu 14
Discount		-12%	-15%	-20%	New price: 15.00
*Condition		N/A	N/A	>=2.000kg	>=2pcs

*0 means no condition; N/A means this step is not available.

Procedure	Description	Key operation	Display On 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Please insert the beginning date	[1][1][6][*]	S 116		00-00-00	FROM YY-MM-D	
Step3	Insert the date 04-05-18	[0][4][0][5][1][8]	S 116		04-06-18	FROM YY-MM-D	
Step4	Please insert the beginning time	[*]	S 116	00:00:00		FROM HH-MM-S	
Step5	Insert the time: 09:30:00	[0][9][3][0]	S 116	09:30:00		FROM HH-MM-S	
Step6	Please insert the end date	[*]	S 116		00-00-00	TO YY-MM-DD	
Step7	Insert the date 05-05-18	[0][5][0][5][1][8]	S 116		05-06-19	TO YY-MM-DD	
Step8	Please insert the end time	[*]	S 116	00:00:00		TO HH-MM-SS	
Step9	Insert the time: 18:30:00	[1][8][3][0]	S 116	18:30:00		TO HH-MM-SS	
Step10	Discount to all items	[*]	S 116			ALL ITEMS	
Step11	Discount to some group	[→T←]	S 116		GROUP	GROUP	
Step12	Discount to some PLU	[→T←]	S 116		PLU	PLU	
Step13	Discount based on total amount	[→T←]	S 116		TOTAL \$	TOTAL \$	
Step14	Clear all discounts	[→T←]	S 116		CLEAR ALL	CLEAR ALL	
Step15	Choose "All Items"	[*]	S 116		- 0	PERCENT %	
Step16	Insert discount percentage -12%	[1][2]	S 116		- 12	PERCENT %	
Step17	Back to last level	[*]	S 116			ALL ITEMS	
Step18	Discount to some group	[→T←]	S 116			GROUP	
Step19	Edit the discount of group1	[*]	S 116		GRP 1	INSERT NUMBER	
Step20	Insert the group #: 4	[4]	S 116		GRP 4	INSERT NUMBER	
Step21	Insert the discount percentage: -10%	[*] [1][5]	S 116		- 15	PERCENT %	
Step22	Edit the next group's discount	[*]	S 116		GRP 5	INSERT NUMBER	
Step23	Back to last level	[MODE]	S 116			GROUP	
Step24	Edit discount to PLU	[→T←]	S 116			PLU	
Step25	Edit the discount of PLU 1	[*]	S 116		PLU 1	INSERT NUMBER	
Step26	Insert the discount percentage	[*]	S 116		- 0	PERCENT %	
Step27	Insert the percentage discount: -20%	[2][0]	S 116		- 20	PERCENT %	
Step28	Insert discount condition	[*]	S 116		0.000	CONDITION>=W	
Step29	Insert condition: Weight is more than 2kg	[2][0][0][0]	S 116		2.000	CONDITION>=W	

Step30	Edit the next PLU's discount	[*]	S 116		PLU 2	INSERT NUMBER
Step31	Insert PLU #: 14	[1][4]	S 116		PLU 14	INSERT NUMBER
Step32	Insert the discount percentage	[*]	S 116		- 0	PERCENT %
Step33	Insert the new price	[→T←]*	S 116		0.00	NEW PRICE
Step34	Insert the new price: 15.00	[1][5][0][0]	S 116		15.00	NEW PRICE
Step35	Insert discount condition	[*]	S 116		0	CONDITION>=0
Step36	Insert condition: Quantity not less than 2 PCS	[2]	S 116		2	CONDITION>=0
Step37	Edit the next PLU's discount	[*]	S 116		PLU 15	INSERT NUMBER
Step38	Back to last level	[MODE]	S 116			PLU
Step39	Edit discount based on the total amount	[→T←]	S 116		-----	GIFT EDIT
Step40	Insert the discount percentage	[*]	S 116		- 0	PERCENT %
Step41	Insert the discount percentage: -10%	[1][0]	S 116		- 10	PERCENT %
Step42	Insert the condition	[*]	S 116		0.00	CONDITION>=Q
Step43	Insert the condition: not less than 50\$	[5][0][0][0]	S 116		50.00	CONDITION>=Q
Step44	Back to last level	[*]	S 116			TOTAL \$
Step45	Exit and go to next item	[MODE]	S 117		-----	GIFT EDIT

* Alternative is available only when discount is 0. 0 means no discount or no new price.

5.4.1.17 Edit Gift (117)

One PLU or total amount can contain up to 3 kinds of gifts. Only 20 PLUs can have gifts.

For example: Date: from 04-05-18 to 05-05-18 Time 9:30:00~19:30:00 (If any date or time is 0, it means no limit)

	PLU	Total amount
	Grape: PLU34	Total amount
Condition	>5.000kg	>=\$50.00
Gift 1	Soap: 2 PCS (PLU31)	Washing powder: 0.1kg (PLU30)
Gift 2	Washing powder: 0.1kg (PLU30)	
Gift 3		

Procedure	Description	Key operation	Display On 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Input the setting item #	[1][1][7]	S 117		-----	GIFT EDIT	
Step3	Insert the beginning date	[*]	S 117		00-00-00	FROM MM-YY-D	
Step4	Insert the date 04-05-18	[0][4][0][5][1][8]	S 117		04-06-18	FROM YY-MM-D	
Step5	Insert the beginning time	[*]	S 117	00:00:00		FROM HH-MM-S	
Step6	Insert the time: 09:30:00	[0][9][3][0]	S 117	09:30:00		FROM HH-MM-S	
Step7	Insert the end date	[*]	S 117		00-00-00	TO YY-MM-DD	
Step8	Insert the date 05-05-18	[0][5][0][5][1][8]	S 117		05-06-19	TO YY-MM-DD	
Step9	Insert the end time	[*]	S 117	00:00:00		TO HH-MM-S	
Step10	Insert the time: 18:30:00	[1][8][3][0]	S 117	18:30:00		TO HH-MM-S	
Step11	Edit gift of some PLU	[*]	S 117			PLU	
Step12	Edit gift based on the total amount	[→T←]	S 117			TOTAL \$	
Step13	Clear all edited gift	[→T←]	S 117			CLEAR ALL	
Step14	Default edit PLU 1's gift	[*]	S 117		PLU 1		
Step15	Insert PLU #: 34	[3][4]	S 117		PLU34		
Step16	Insert the condition to provide gift	[*]	S 117		0.000	CONDITION >W	
Step17	Condition is weight is not less than 5kg	[5][0][0][0]	S 117		5.000	CONDITION >W	
Step18	Edit gift 1: Its PLU # is 31	[*] [3][1]	S 117	GIFT 1	PLU 31		
Step19	Insert the quantity of gift 1	[*]	S 117	GIFT 1	0	GIFT Q	
Step20	The quantity is 2	[2]	S 117	GIFT 1	2	GIFT Q	
Step21	Insert the unit of gift	[*]	L	1			
Step22	Insert PCS	[P][C][S]	L	1	PCS		

Step23	Edit gift 2	[*]		GIFT 2	PLU 0	INPUT NUMBER	
Step24	Insert the PLU # of gift 2: 30	[3][0]		GIFT 2	PLU 30		
Step25	Please insert the weight of gift 2	[*]		GIFT 2	0.000	GIFT W (KG)	
Step26	The weight of gift 2 is 0.1kg	[1][0][0]		GIFT 2	0.100	GIFT W (KG)	
Step27	Edit gift 3	[*]		GIFT 3	PLU 0	INPUT NUMBER	
Step28	Back to last level	[*]				PLU	
Step29	Select to edit gift based on total amount	[→T←]				TOTAL \$	
Step30	Insert the condition	[*]			0.00	CONDITION>\$	
Step31	Condition: total amount is not less than \$50	[5][0][0][0]			50.00	CONDITION>\$	
Step32	Insert the PLU # of gift 1: 30	[*][3][0]		GIFT 1	PLU 30		
Step33	Insert the weight of gift 1	[*]		GIFT 1	0.000	GIFT W (KG)	
Step34	The weight of gift 1 is 0.1kg	[1][0][0]		GIFT 1	0.100	GIFT W (KG)	
Step35	Edit gift 2	[*]		GIFT 2	PLU 0	INPUT NUMBER	
Step36	Edit gift 3	[*]		GIFT 3	PLU 0	INPUT NUMBER	
Step37	Back to last level	[*]				PLU	
Step38	Exit and go to next item	[MODE]	S 118		-----	DISC CARD	

5.4.1.18 Edit Discount Card (118)

Edit card is valid only to total amount. E.g.: The card with AC as first 2 digits is Gold card.

Be care that the used ID code here can not be used in bar code format as ID code. If ID has been used by barcode format as an ID code, "REPT BAR XX" will be displayed to indicate that it has been used by bar code format XX.

	Gold card
Discount rate	-12%
ID code	AC

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Edit discount card	[1][1][8]	S 118		-----	DISC CARD	
Step3	Edit silver card	[*]	S 118			SILVER CARD	
Step4	Edit golden card	[→T←]	S 118			GOLD CARD	
Step5	Insert the discount rate: -12%	[*][1][2]	S 118	GOLD	-12%	PERCENT %	
Step6	Insert the identification content: AC	[*][A][C]	S 118	GOLD		AC	
Step7	Edit golden card	[*]	S 118			GOLD CARD	
Step8	Exit and go to next item	[MODE]	S 119		-----	RAFFLE	

5.4.1.19 Edit Raffle (119)

For example: Date: from 04-05-18 to 05-05-18 Time 9:30:00~19:30:00 (If any date or time is 0, it means no limit)

Condition: One raffle every 20 tickets with total amount not less than \$50, Gifts (up to 3 gifts) are as follows: one bag of washing powder (PLU 30).

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Access to raffle edit, insert the date and time with the same way as in edit discount	-----					
Step2	Insert the amount condition	[*]	S 119		0.00	TOTAL \$>=0.00	
Step3	Insert the total amount condition: >=\$50.00	[5][0][0][0]	S 119		50.00	TOTAL \$>=0.00	
Step4	Insert the ticket quantity: 20	[*][2][0]	S 119		20	TICKET QTY	
Step5	Edit gift 1, insert the PLU # of gift: 30	[*][3][0]	S 119		PLU 30	GIFT 1 PLU	
Step6	Insert the quantity of gift 1: 1	[*][1]	S 119		1	GIFT 1 (QTY)	
Step7	Insert the unit of gift 1: bag	[*][B][A][G]	L	4		BAG	
Step8	Edit gift 2	[*]			PLU 0	GIFT 2 PLU #	
Step9	Exit and go to next item	[Mode]	S 120		-----	PROMOTION	

5.4.1.20 Print Promotion Information (120)

To print all edited promotion information and all related setting:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----------	-------------	---------------	---------------------------------	---------------------------------	---------------------------------	----------------------------	------------

Step39		-----					
Step40	Access to setting 121	[1][2][0]	120		-----	PRN PROMOTE	
Step41	Print information	[*]				PRINT YES	
Step42	Don't print	[→T←]				PRINT NO	
Step43	Exit and go to next item	[*]	121		-----	PRODUCT DATE	

Promotion Information	
Scale 1 2005-03-12 08:30:00	
Discount	
From: 2004-06-18 09:30:00	
T o: 2005-06-19 18:30:00	
PLU 1 Beef	-12%
Condition: Weight>=2.000kg	
Group 1: Meat	-10%
Other:	-20%
Gift	
Time: any time	
PLU 1 Salted Duck	
Condition: Weight>=3.00kg	
Gift 1: PLU 2 Apple	
2PCS	
Discount Card	
Raffle	
Time: any time	
Condition 1: Total amount>=100.00\$	
Condition 2: Raffle one time every 20 tickets	
Gift 1: Apple	1 PCS
Discount Setting	
[Disc]: Enabled to PLU and total	
Preset discount: Effective automatically	
[Disc]:can't change preset discount	
[Disc]:set discount to item w/o preset discount	
Discounted items don't enjoy Raffle	
discounted items don't enjoy total discount	
Discount card is effective only on the item w/o discount	
Gift by total \$ is effective on all items	
Total Price Rounding	
No rounding	
Total Price Reduction	
No reduction	
[-]: Enabled	
Preset total reduction: effective automatically	
[-]:can't change preset total reduction	
--End--	

5.4.1.21 Change Production Date (121)

In this setting item, production date can be changed. It only effects the date printed on the labels.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "GR 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to production date edit	[1][2][1]	S 121		-----	PRODUCT DATE	
Step3	Show current date	[*]	S 121		05-08-12	CURRENT +0	
Step4	The production date is 2 days later than	[▶][▶]			05-08-14	*CURRENT +2	

	current date						
Step5	Exit and go to next item	[*]	S 122		-----	PRINT PLU	

* Positive date means the date is later than the current date. . Negative date means the date is earlier than the current date.

5.4.1.22 Print Edited PLU (122)

Print the edited PLUs as needed

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display On 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to setting 122	[1][2][2]	S 122		-----	PRINT PLU	
Step3	Insert the beginning PLU#: default is 1	[*]	S 121		PLU 1	FROM 1-9999	
Step4	Insert the end PLU #: 80	[*][8][0]			PLU 80	TO 1-9999	
Step5	Print all edited PLU from #1 to #80 and go to next item	[*]	S 101		-----	PLU EDIT	

5.4.2 Ticket/Label Setting (Group 2)

Setting #	Content		Available parameters				Default
	Description	Display*	Parameter 0		Parameter 1 or other (need indication)		
			Description	Display*	description	Display*	
201	Restore default of group2	RESTORE DEF	Don't restore default	DEFAULT NO	Restore default	DEFAULT YES	0
202	Print ticket or label	PRN TYPE	Print ticket	PRINT TICKET	Print label	PRINT LABEL	0
203	Print ticket?	PRINT ?	Print	PRINT TICKET	3: Only Print the Weighting Ticket 4: Choose the Non-Weighting ticket	3:WEIGHTING T 4:NON-WEIGHT T?	0
204	Print content of ticket	PRN CONTENT	Print detail ticket	DETAIL TICKET	Print simple ticket	SIMPLE TICKET	0
205	Print stub	STUB?	Print stub	PRINT STUB	Don't print stub	NO STUB	1
206	Print ticket copy	PRN COPY	Print copy	PRINT COPY	Don't print	NO COPY	1
207	Way to print tickets	PRN METHOD	Print all at one time	ONE TIME PRN	Print one by one	LINE BY LINE	0
208	Ticket format	TICKET FORMA	Format 0	T FORMAT	1: format 1 2: format 2 3: format 3	1: T FORMAT 1 2: T FORMAT 2 3: T FORMAT 3	0
209	Default label format of by weight PLU	D L W FORMAT	W Format 101	There are 20 kinds label formats. Formats from 101 to 110 are fixed in scale, formats from 1 to 10 are free formats, can be downloaded from PC. Available parameters are 1~10 or 101~110			101
210	Default label format of by count PLU	D P Q FORMAT	Q format 102				102
211	Default prepack label format of by weight PLU	D P W FORMAT	PW format103				103
212	Default prepack label format of by count PLU	D P Q FORMAT	PQ format104				104
213	Format of total label	D L T FORMAT	T format 105				105
214	Reaction when press vendor key in label printing mode	ACT TO V1	Print label but don't accumulate	LABEL/NO TOT	1: Print and accumulate 2: Don't print but accumulate	1: LABEL/TOT 2: NO LABEL/TOT	0
215	Price in PLU is with VAT?	PLU VAT	With VAT	\$ WITH VAT	Without VAT	WITHOUT VAT	0
216	Print item # or PLU?	AFTER DESCRP	Don't print	TEM NO.	1: Print PLU # 2: Print item #	1:PLU 2: EMPTY	2
217	Print Scale # on the ticket?	PRN SCALE #?	Print	PRN SCALE NO.	Don't print	NOT PRN S NO.	0
218	Print vendor name on the ticket?	PRN VENDOR	Print	PRN VENDOR	Don't print	NOT PRN VEND	0
219	Print date and time in the ticket?	PRN DATE	Print	PRN DATE	Don't print	NOT PRN DATE	0
220	Print ticket serial number in the ticket	PRN S/N	Print	PRN S/N	Don't print	NOT PRN S/N	0
221	Print VAT in the ticket?	PRN VAT	Print	PRN VAT	Don't print	NOT PRN VAT	1
222	Print change in the ticket?	PRN CHG	Print	PRN CHANGE	Don't print	NOT PRN CHG	0
223	Print bar code in the ticket?	PRN BAR CODE	Print	PRN BAR CODE	Don't print	NOT PRN BAR	1
224	Print void information in the ticket?	PRN VOID	Print	PRN VOID	Don't print	NOT PRN VOID	0
225	Print logo in the ticket? (N/A)	PRN LOGO	Print	PRN LOGO	Don't print	NOT PRN LOGO	1
226	Print gift in the ticket?	PRN GIFT	Print	PRN GIFT	Don't print	NOT PRN GIFT	1
227	Print raffle in the ticket?	PRN RAFFLE	Print	PRN RAFFLE	Don't print	NOT PRN RAFFLE	1
228	Discount characters in the ticket?	DISC LOC	After description	AFTER DESCRP	On the next line	ON NEXT LINE	0
229	Way to show discounted price	DISC PRE PRN	Print discounted unit	DISC UP/TP	Print the discounted total	DISC TP ONLY	1

			price and total price		price only		
--	--	--	-----------------------	--	------------	--	--

* It means the content is displayed on the bottom line.

5.4.3 Data Deletion (Group 3)

The following is all setting items in group 3.

Setting items	301	302	303	304	305
Content	Delete PLU	Delete group	Delete reports	Delete all reports	Reset scale

5.4.3.1 Delete PLU (301)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to setting 301	-----[3][0][1]	S 301		-----	DELETE PLU	
Step3	Default beginning PLU # is 1	[*]	S 301		PLU 1	DEL FROM-----	
Step4	Insert the end PLU #: 3	[*] [3]	S 301		PLU 3	DEL TO ----	
Step5	Default is not to delete	[*]	S 301			SURE NO	
Step6	Select to delete	[→T←]	S 301			SURE YES	
Step7	2 means there are 2 PLUs from PLU 1 to PLU 3	[*]				DEL 2	
Step8	Edit again		S 301		PLU 1	DEL FROM-----	
Step9	Exit and go to next item	[MODE]	S 302		-----	DEL GROUP	

5.4.3.2 Delete Group (302)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to setting 302	[3][0][2]	S 302		-----	DEL GROUP	
Step3	Default beginning group # is 1	[*]	S 302		GRP 1	DEL FROM---	
Step4	Insert the end group #: 8	[*] [8]	S 302		GRP 8	DEL TO ----	
Step5	Default is not to delete	[*]	S 302			SURE NO	
Step6	Select to delete	[→T←]	S 302			SURE YES	
Step7	2 means there are 2 groups from group 1 to group 8	[*]	S 302			DEL 2	
Step8	Edit again		S 302		GRP 1	DEL FROM-----	
Step9	Exit and go to next item	[MODE]	S 303		-----	DEL REPORT	

Notice: make sure there isn't any PLU in the group before you delete this group, or there will be a mistake.

After one group is deleted, the PLUs in that group will be included into another group.

5.4.3.3 Delete Report (303)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step10	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step11	Access to setting 303	[3][0][3]	S 303		-----	DEL REPORT	
Step12	Default is not to delete	[*]	S 303			SURE NO	
Step13	Select to delete	[→T←]	S 303			SURE YES	
Step14	Exit and go to next item	[*]	S 304		-----	DEL ALL REPT	

Notice: Only weekly, monthly and yearly reports will not be deleted.

5.4.3.4 Delete All Report (304)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step15	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 1		-----	INFO INPUT	
Step16	Access to setting 304, delete all reports	[3][0][4]	S 304		-----	DEL ALL REPT	
Step17	Default is not to delete	[*]	S 304			SURE NO	
Step18	Select to delete	[→T←]	S 304			SURE YES	
Step19	Exit and go to next item	[*]	S 305		-----	RESET SCALE	

5.4.3.5 Reset Scale (305)

Notice: Please pay attention to this item because resetting scale will clear all edited information. Additionally, all parameters of setting items, with the exception of those in group 5 and setting item 702(Ethernet settings), will be restored into default.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	

Step2	Access to setting 305, reset scale	[3][0][5]	S 305		-----	RESET SCALE	
Step3	Default is not to reset scale	[*]	S 305			SURE NO	
Step4	Select reset	[→T←]	S 305			SURE YES	
Step5	In the process of resetting	[*]	S 305			CONFIG ACTIV	
Step6	Reset finish		S 305			-----OK-----	
Step7	Exit and go to next item	[MODE]	S 301		-----		

5.4.3.6 Liecence (306)

In order to get a license of some options like battery or/and Ethernet. You may use this to get a 20-character PID. Please send PID and your requirement on option to MT, MT can create and send you a LID. After input the LID, the relevant options will be enabled.

E.g.: One customer wants options battery and Ethernet enabled, he can use the following steps to find PID.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to setting 306 to get PID or input LID	[3][0][6]	S 306		-----	PID LID	
Step3	Show main board #	[*]	S 306		123456	MAIN BOARD	
Step4	Show license #, 1 means no option is enabled	[*]	S 306		1	LICENSE	
Step5	*Show PID. Send this 20-charcater PID to MT	[*]	S 306		PID	R6789908UHGF	
Step6	Please input LID	[*]	S 306		LID		
Step7	Print PID and return to weighing mode	[*]	0.000	0.00	0.00	V1 TICKET	

* Use key [◀] or [▶] to see the invisible characters

The customer sends the PID to MT and tells MT he wants Ethernet and battery functions enabled. MT will create and send him a 20-character LID. He follows the following steps to input the LID. After the LID is input, those 2 functions will be enabled, and the license number will become to 7 automatically.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to setting 306 to get PID or input LID	[3][0][6]	S 306		-----	PID LID	
Step3	Show PID	[*][*][*]	S 306		PID	R678990	
Step4	Please input LID	[*]	S 306		LID		
Step5	Input LID	[1][2][A]-----	S 306		LID	12A-----	
Step6	*Confirm input	[*]	S 306			---OK---	
Step7	Go to S301		S 301		-----	DELETE PLU	

* If LID is not right, "Input Error" will show on the display.

5.4.4 Operation Setting (Group 4)

5.4.4.1 All Setting Items

Setting #	Content		Parameter				Default
	Description	Display*	Parameter 0		Parameter 1 or other (need indication)		
			Description	Display*	Description	Display*	
401	Restore default?	RESTORE DEF	No	DEFAULT NO	Yes	DEFAULT YES	0
402	Recall PLU by PLU # or item #	CALL PLU TYP	By PLU	BY PLU	By item #	BY ITEM NO.	0
403	Way to recall PLU	LOAD PLU TYP	Automatically	AUTO LOAD	By PLU key	BY PLU KEY	0
404	Print edited content of group1?	PRINT EDIT C	Don't print	PRINT NO	Print	PRINT YES	1
405	Preset 1 or 2 PLU into one preset key	PRESET PLU	1 PLU	1 PLU	2 PLU	2 PLU	0
406	PLU price change enabled?	PRICE CHANGE	Enabled	PRC CHG YES	Disabled	PRICE CHG NO	1
407	PLU tare change enabled?	TARE CHG TYP	Enabled	TARE CHG YES	Disabled	TARE CHG NO	1
408	Manual price enabled	HAND PRICE	Enabled	HAND PRC YES	Disabled	HAND PRC NO	0
409	Vendor quantity	VENDOR QTY			1: 1 vendor 2: 2 vendors 3: 3 vendors 4: 4 vendors	1:VENDOR QTY=1 2:VENDOR QTY=2 3:VENDOR QTY=3 4:VENDOR QTY=4	1
410	VAT enabled	VAT	Enabled	VAT PERMIT	Disabled	NO VAT	1
411	Clear unit price, tare or PLU automatically when vendor key is pressed?	CLEAR AUTO	Clear		1: CLEAR MANUAL 2: FIX T W/O P	1.CLEAR MANUAL 2.FIX TARE WITHOUT PRICE	0
412	Sleep when no weight change and key operation	SLEEP MODE	No sleep	NO SLEEP	Sleep after 3 minutes later	3M LATER	0
413	Backlight setting (only available when battery is used)	LIGHT TYPE	Light backlight when weight change or key is pressed	LIT AS REQUI	Backlight always on	ALWAYS LIT	0
414	Refund enabled after ticket is printed?	ST	Enabled	ST YES	Disabled	ST NO	0
415	Cancel transaction before ticket is printed	VOID	Enabled	VOID YES	Disabled	VOID NO	0
416	Quantity of by count item	QTY FIX	Fixed as 1	QTY FIX 1	Not fixed	QTY NOT FIX	0
417	100g function enabled?	100G	Enabled	100G YES	Enabled	100G NO	0
418	Large sale enabled?	LS MODE	Enabled	LS YES	Enabled	LS NO	0
419	Switch among sales and prepack mode	MODE SWITCH	Sales mode	SALES	Prepack	PREPACK	0
420	Change by weight PLU to by count PLU when pressing [x] key (N/A)	W TO QTY	Enabled	W TO QTY YES	Disabled	W TO QTY NO	1
421	Settle amount enabled?	\$ SETTLE	Enabled	\$ SETTLE YES	Disabled	\$ SETTLE NO	0
422	Effecting of discount key	DISC KEY	Effect PLU and	PLU+TOTAL	1: Effect unit price only	1:PLU ONLY	0

			total		2: Effect total price only 3: Disabled	2: TOTAL ONLY 3: NO	
423	How to recall discount	DISC LOAD	By discount key	BY DISC KEY	Takes effect automatically	AUTOMATIC	0
424	[DISC] key change discount edited insetting 116?	DISC CHANGE	Can change	DISC CHG YES	Can not change	DISC CHG NO	1
425	Key [DISC] set discount of PLU without edited discount	TEMP DISC	May set	TEMP DISC YES	Can not set	TEMP DISC NO	0
426	Discounted items enjoy raffle?	DISC AND RAF	Can enjoy	DISC/RAF	Can not enjoy	DISC NO RAFF	0
427	Discounted items enjoy total discount	TOTAL DISC	Effective	DISC AGAIN	ineffective	NOT AGAIN	0
428	Discount card is effective on all items?	CARD DISC	On all items	DISC AGAIN	Only on those w/o discount	NOT AGAIN	0
429	Gift by total \$ is effective on all items?	TOTAL GIFT	On all items	GIFT AGAIN	Only on those w/o gift	NOT AGAIN	0
430	Total price rounding	SUM ROUND	No rounding	NO ROUND	1: Round 1~4 to 0, 5~9 to 10 2: Round 1~3 to 0, 4~7 to 5, 8~9 to 10 3: round 1~9 to 10	4 CUT 5 UP ROUND TO 0/5 ROUND UP	0
431	Default rebate of total price	DEFAULT CUT	No rebate	NO CUT DEFAULT	1: Delete decimal fraction 2: Keep one digit decimal fraction 3: Keep two-digits decimal fractions	1: CUT TO X.00* 2: CUT TO X.X0 3: CUT TO X.XX	0
432	Default rebate become effect?	CUT EFFECT	Become effect after [-] is pressed	CUT BY KEY	Become effect automatically	CUT AUTO	0
433	Key [-] enabled?	CUT KEY	Enabled	KEY ENABLE	Disabled	KEY DISABLE	0
434	Key [-] can change default rebate?	CUT CHANGE	Cannot change	CUT CHG NO	Can change	CUT CHG YES	0
435	**Way to delete report	REPORT DEL	Manually	RPT DEL HAND	Automatically at 00:00:00	RPT DEL AUTO	1
436	Rewind of paper liner (N/A)	LINER REWIND	Don't rewind	LINER NO REW	Rewind	LINER REWIND	0
437	Paper moves back little before printing (N/A)	LABEL BACK	Move back	LABEL BACK	Don't move back	NO LAB BACK	0
438	Printing speed	PRINT SPEED	Normal speed	SPEED NORMAL	1: fast 2: very fast	1: SPEED FAST 2: SPEED FASTER	1
439	Print contrast	CONTRAST	Lightest	CONTRAST 0-8	0->8 become heavier from 0 to 8	CONTRAST 0-8	4
440	1st day of the week	FIRST DAY TYP	Monday is the 1st day	MONDAY	Sunday is the 1st day	SUNDAY	0
441	Filter strength	FILTER TYPE	Light	FILT LIGHT	1: Normal 2: medium 3: Heavy 4: Heavier	1: FILT NORMAL 2: FILT MIDDLE 3: FILT HEAVY 4: FILT HEAVIER	1
442	ECR checkout way	ECR CHECKOUT	Disabled	ECR CKO NO	Enabled	ECR CKO YES	0
443	Multi-payment way	MULTI-PAY	Use cash only	CASH ONLY	Use multi-payment way	MULTI-PAY	0
444	Basket Function***	BASKET-FUNC	Disabled	FARM FUN	Enabled	FARM FUNCTION	0

				<i>DISABLE</i>		<i>ENABLE</i>	
445	Manual Tare***	<i>TA KEY</i>	Disabled	<i>MANUAL TARE DISABLE</i>	Enabled	<i>MANUAL TARE ENABLE</i>	0

* It means the content is displayed on the bottom line.

** Once change the way to delete report , all reports except weekly, monthly and yearly will be deleted. Please think it over carefully before making any change.

*** Please check the Appendix B for details of Farm Function and Manual Tare.

5.4.5 Service (Group 5)

5.4.5.1 All Setting Items in Group 5

Before access to group 5, the sealing has to be broken.

Setting #	Content		Parameter				Default
			Parameter 0		Parameter 1 or other (need indication)		
	Description	Display*	Description	Display*	Description	Display*	
501	Country code	COUNTRY SEL	Europe	EUROPE	1: America 2: General export 3: China 4: Latin America 5: France 6: Germany 7: Spain 8: Italy	1:AMERICA 2:G EXPORT 3:CHINA 4:LATIN 5:FRANCE 6:GERMANY 7:SPAIN 8:ITALY	3
502	Restore default	RESTORE DEF	Don't restore default	DEFAULT NO	Restore default	DEFAULT YES	0
503	decimal point	DECIMAL POIN	Comma	COMMA	Point	DOT	1
504	Show zero cursor when gross weight is 0	ZERO CURSOR	Show zero cursor	>0< YES	Don't show	>0< NO	0
505	How to show negative weight	NEG WGT DISP	Show actual weight	ACTUAL DATA	Show uuuuuu	SHOW UUUUUU	0
506	Chain tare enabled?	CHAIN TARE	Enabled	CHAIN T YES	Disabled	CHAIN T NO	0
507	Preset tare enabled?	PRESET TARE	Enabled	PRESET T YES	Disabled	PRESET T NO	0
508	Normal weight or expanded weight?	WT DISP MODE	Normal weight	NORMAL WT	Expanded weight	EXPANDED WT	0
509	Allow to print when weight is among 2e and 20e	LESS 20E PRN	Enabled	PRN ENABLED	Disabled	PRN DISABLED	0
510	Cursor language	CURSOR LANG	English	CURSOR ENG	Chinese	CURSOR CN	1
511	Printing length	PRINT LENGTH	Show printing length	SHOW LENGTH	Print printing length	PRN LENGTH	0
512	Reset printing length	RESET LENGTH	Reset	RESET LENGTH	Don't reset	NOT RESET	1
513	GEO code	SET GEO	0~31				12
514	Calibration	CALIBRATION	Don't calibrate	NO CALIBRATION	Calibrate	YES CALIBRATION	NO

5.4.5.2 Country Code vs Default

#	Setting item	Default							
		China	America	Europe	G export	Latin	France	Germany	Spain
501	Country code								
502	Restore default	0	0	0	0	0	1	1	1
503	decimal point	1	1	0	1	1	0	0	0
504	Show zero cursor when gross weight is 0	0	0	1	0	0	1	1	1
505	How to show negative weight	0	0	0	0	0	0	0	0
506	Chain tare enabled?	0	0	0	0	0	0	0	0
507	Preset tare enabled?	0	0	0	0	0	0	0	0
508	Normal weight or expanded weight?	0	0	0	0	0	0	0	0
509	Allow to print when weight is among 2e and 20e	0	0	0	0	0	0	0	0
510	Cursor language	1	0	0	0	0	0	0	0
511	Printing length	0	0	0	0	0	0	0	0
512	Reset printing length	1	1	1	1	1	1	1	1
513	GEO code	12	15	20	12	12	19	20	15
514	Calibration	No	No	No	No	No	No	No	No

5.4.5.3 Printing Length

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Enter the setting item 511	-----	5 511		-----	PRINT LENGTH	
Step 2	Default indicate length (e.g. 3000m)	[*]	5 511	3000M	0	SHOW LENGTH	
Step 3	Select to print length	[→T←]	5 511	3000M	1	PRN LENGTH	
Step 4	Print and go to next item	[*]	5 512		-----	RESET LENGTH	

Printer should be reset after change the printing head in order to ensure the printing length is set to 0. If the main PCB is changed while the printer is not, the former data should be recorded and preserved for standby.

The list of printing length: Keep the latest 10 reset data.

Printing Length List	
OHAUS	
PINE BROOK NJ	
Scale:01 2005-03-08	15:56:55
Time	Printing Length
03-06-08~04-06-08	32.005
04-06-08~05-08-08	3.005
---End---	

5.4.5.4 Calibration

Capacity and Increment

Weight unit	Resolution	Capacity(kg)				Increment(g)			
Kg	3000	3	6	15	30	1	2	5	10
	6000	3	6	12	30	0.5	1	2	5
Lb	3000	6	15	30	60	2	5	10	20
	6000	6	12	30	60	1	2	5	10
Capacity of the load cell		6.5	15	30	40				

The follows is the location of the calibration switch. Please use a thin rod to press the calibration switch when the display show "Push cal key".



Calibration Button

The procedure to calibrate scale is s follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display On 3 rd line	Display on the bottom line	Lit cursor
Step1	Weighing mode		0.000	0.00	0.00		
Step2		[Mode]				SETUP/SHIFT	
Step3	Please input the service password	[plu]				PW	
Step4	Input service password 246813	[2][4][6][8][1][3]				PW*****	
Step5	Please press the calibration button	[*]				PUSH CAL KEY	
Step6	Two continuous beeps indication calibration		GR 01		-----	INFO INPUT	

	button has been pressed and access to setup mode						
Step7		[5][1][4]	5	514	-----	DATA INPUT	
Step8	Access to calibration setting	[*]	5	514	NO	CALIBRATION	
Step9	Select to calibrate the scale	[→T←]	5	514	YES	CALIBRATION	
Step10	Select the capacity	[*]	5	514	3.000	CAPACITY	
Step11	Select the increment	[*]	5	514	0.001	INCREMENT	
Step12	Capturing zero	[*]	5	514	-----	CAPTURE 0	
Step13	Count down from 5 to 0 and go to next step automatically. If scale is not stable, will show 5 and not count down until find zero	[*]	5	514	5	CAPTURE 0	
Step14	Capture half capacity.		5	514	0.000	ADD HALF	
Step15	Put the weight on the platter (*valid weight is about 1/2 capacity), then input the weight value.	[1][5][0][0]	5	514	1.500	ADD HALF	
Step16	Count down from 5 to 0	[*]	5	514	5	CAPTURE 0	
Step17	Capture SPAN		5	514	0.000	ADD FULL	
Step18	Put the weight on the platter (*valid weight is about full capacity), then input the weight value.	[3][0][0][0]	5	514	3.000	ADD FULL	
Step19	Count down from 5 to 0	[*]	5	514	5	CAPTURE 0	
Step20	Finish. Please shut down, then turn on.		5	514	DONE	SHUT DOWN	

* If the weight on the platter is too small or too big, it will be invalid. If the input data is too small or too big, it is also invalid.

5.4.6 Report (Group 6)

5.4.6.1 There Are 14 Reports and a Log as follows:

602: Sales Report	608: Settle Report	614: Monthly Report
603: PLU Report	609: Store/Sale/Inventory Report	615: Yearly Report
604: Promotion Report	610: Void/ST Report	616: Combination Report
605: Group Report	611: Vendor Report	617: Log
606: Group Hourly Report	612: Cash Drawer Report	
607: Hourly report	613: Weekly Report	

5.4.6.2 Two Ways to Delete Reports: Automatically or Manually

To delete reports automatically(Default mode)

Set the way to delete reports automatically in setting item 435.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	In setting mode, "GR XX" is shown. e.g. "Gr 01"		GR 01		-----	INFO INPUT	
Step1	Delete reports automatically	[4][3][5][*]	S 435		0	RPT DEL AUTO	
Step2	Abort selection	[*]	S 435		0	SURE NO	
Step3	Select to confirm it	[→T←]	S 435		0	SURE YES	
Step4	Setting process	[*]				---OK---	
Step5	Setting finished and go to next item		S 436		-----	LINER REWIND	

Once the way to delete reports is set as automatic, the scale will delete reports at 00:00:00 every day, and 00:00:00 will be the beginning time of the reports. Scale will keep 2 business days' of reports and a total report. You may select the date when editing reports' setting items. E.g.: editing sales report setting item 602.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setting mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to sales report setting item 602. Default is today, press [→T←] may select last business day (yesterday) or total reports of all reports	[6][0][2][*]	S 602		05-06-18	TODAY	
Step3	Select total reports	[→T←][→T←]	S 602		*05-06-16	TOTAL	
Step4	Default is detail report. press [→T←] may select simple report (Simple rpt)	[*]	S 602			DETAIL RPT	
Step5	Don't print	[*]	S 602			NOT PRINT	
Step6	Select printing	[→T←]	S 602			PRINT	
Step7	Print report and go to next item	[*]	S 603		-----	PLU REPORT	

Notice: Total reports can be deleted in setting item 303.

To delete reports manually

Set the way to delete reports manually in setting item 435.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
-----	In setting mode, "GR XX" is shown. e.g. "Gr 01"		GR 01		-----	INFO INPUT	
Step1	Delete reports automatically	[4][3][5][*]	S 435		0	RPT DEL AUTO	
Step2	Select to delete reports manually	[→T←]	S 435			RPT DEL HAND	
Step3	Abort selection	[*]	S 435		0	SURE NO	
Step4	Select to confirm it	[→T←]	S 435		0	SURE YES	
Step5	Setting process	[*]				---OK---	
Step6	Setting finished and go to next item		S 436		-----	LINER REWIND	

Once the way to delete reports is set as manual, the time to delete reports will be decided by you. You may delete all reports in setting item 303, except weekly, monthly and yearly reports. The time when reports are deleted will become the beginning time of the new reports.

5.4.6.3 Delete All Reports

You may delete all reports in the setting item 304. Resetting the scale in the setting 305 also can delete all reports, but

be careful, as it also deletes all data in the scale. Please think it over before resetting the scale.

5.4.6.4 Restore Default of Group 6 (601)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode	-----	GR 01		-----	INFO INPUT	
Step2	Access to 601 to restore default	[6][0][1]	S 601		-----	RESTORE DEF	
Step3	Don't restore	[*]	S 601			DEFAULT NO	
Step4	Select to restore	[→T←]	S 601			DEFAULT YES	
Step5	Confirm and go to next item	[*]	S 602		-----	SALES RPT	

5.4.6.5 Combination Report(616)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2		[6][1][6]	S 616		-----	COMBINE RPT	
Step3	*Default show 602 isn't included in combination report	[*]	S 616		602 NO	SALES REPORT	
Step4	Change no to yes to let 602 included	[→T←]	S 616		602 YES	SALES REPORT	
Step5	603 is not combined	[*]	S 616		603 NO	PLU REPORT	
Step6	To select which reports will be combined one by one	---					
Step7	Default is not to print report	[*]	S 616			NOT PRINT	
Step8	Don't print and go to next item	[*]	S 617		-----	PROMOTE RPT	

When printing combination report, all combined reports will be printed at one time.

* At this step, press [X] key to select to print all reports at one time, at this time, "ALL RANGE" will be shown on the display.

5.4.6.6 Log (617)

In this item, you may print 3 kinds of log: sales log, promotion log and void/ST log.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to log setting	[6][1][7]	S 617		-----	LOG	
Step3	Default to print sales log	[*]	S 617			SALES LOG	
Step4	Select promotion log	[→T←]	S 617			PROMOTE LOG	
Step5	Select to print void/ST report	[→T←]	S 617			RETURN LOG	
Step6	Beginning ticket #: 1*	[*][1]	S 617		1	FROM T NO.	
Step7	End ticket #: 100**	[*][1][0][0]	S 617		100	TO T NO.	
Step8	Don't print	[*]	S 617		SALE	NOT PRINT	
Step9	Go back to next step	[*]				SALES LOG	

* Default is the number of the first ticket, the date inserted should be more than this number..

** Default is the number of last ticket, the date inserted should be less than this number.

5.4.6.7 Setting Procedure/Setting Items/Default (602~614)

After accessing the relevant setting item, follow the steps below to edit report.

Procedure	Instruction		S 602	S 603	S 604	S 605	S 606	S 607	S 608	S 609	S 610	S 611	S 612	S 613	S 614	S 615	Default
	Available parameters	Display	Sales Report	PLU report	Promotion report	Group report	Group hourly report	Hourly report	Settle report	inventory report	Void/ ST report	Vendor report	Cash drawer report	Weekly report	Monthly report	Yearly report	
Settle amount	Settle amount	SETTLE YES							Step 1								SETTLE
	Don't settle amount	SETTLE NO															
**Select date	Today	TODAY	Step 1	Step 1	Step 1	Step 1	Step 1	Step 1	Step 2	Step 1	Step 1	Step 1	Step 1				TODAY
	Last valid day	YESTERDAY															
	Total report	TOTAL															
	Above 3 reports	ALL															
PLU range	The beginning PLU #	FROM PLU NO.		Step 2													ALL PLU
	All PLUs	ALL PLU															
	The end PLU #	TO PLU NO.		*													1
Group range	The beginning group #	FROM GRP NO.				Step 2	Step 2										ALL GROUP
	All groups	ALL GROUPS															
	The end group #	TO GRP NO.				*	*	*									1
Vendor Range	The beginning Vendor #	FROM V NO.										Step 2					ALL VENDORS
	All vendors	ALL VENDOR															
	The end vendor #	TO V NO.										*					1
Sort	Sort by #	SORT BY SUM		Step 3		Step 3	Step 3					Step 3					BY #
	Sort by Amount	SORT BY PLU															
content of report	Simple	SIMPLE RPT	Step 2			Step 4	Step 4		Step 3			Step 4					SIMPLE
	Complicated	DETAIL RPT															
Print?	Print Report	NOT PRINT	Step 3	Step 4	Step 2	Step 5	Step 5	Step 2	Step 4	Step 2	Step 2	Step 5	Step 2	Step 1	Step 1	Step 1	NOT PRINT
	Don't print report	PRINT															

* If select beginning # in this step, end # will appear or it will be skipped over.

** This step will appear only when the report is deleted automatically.

*** To sales report, the default is detail report

5.4.7 Communication (Group 7)

In this group, you may set all parameters related to communication with peripherals

5.4.7.1 All Setting Items

#	Content
701	RS-232
702	Ether Net

5.4.7.2 RS-232 (701)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INSERT	
Step2	Access to item 701 to set RS-232	[7][0][1]	S 701		-----	RS-232	
Step3	Default to set com1	[*]	S 701		COM1	UART COM	
Step4	Alternative is com2	[→T←]	S 701		COM2	UART COM	
Step5	Default baud rate is 115200, 2400~115200 is available	[*]	S 701		9600	UART BAUD	
Step6	Default data bit is 8, 7 is available	[*]	S 701		8	DATA BITS	
Step7	Default parity is none, odd and even also are available	[*]	S 701		NONE	UART PARITY	
Step8	Default stop bit is 1, 2 is available	[*]	S 701		1	STOP BITS	
Step9	Default flow control is none	[*]	S 701		NONE	FLOW CONTROL	
Step10	Exit and go to next item	[*]	S 702		-----	ETHERNET	

5.4.7.3 Ethernet (702)

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display On the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to setting item 702, Ethernet setting	[7][0][2]	S 702		-----	ETHERNET	
Step3	Default is host	[*]	S 702			HOST	
Step4	Alternative is slaver	[→T←]	S 702			SLAVER	
Step5	Insert the local IP address of slaver	[*]	S 702	SLAVER	LOCAL		
Step6	Insert the local IP address	[1][7][2][0][3][0] [0][0][0][7][2][1] [8]	S 702	SLAVER	LOCAL	172030007218	
Step7	Insert the mask code	[*]	S 702	SLAVER	MASK		
Step8	Insert the mask code	[2][5][5][2][5][5] [2][4][8][0][0][0]	S 702	SLAVER	MASK	255255248000	
Step9	Insert the idle time	[*]	S 702	SLAVER	0	IDLE (MS)	
Step10	Insert the idle time: 10s	[1][0]	S 702	SLAVER	10	IDLE (MS)	
Step11	Insert the IP address of this slaver's host	[*][1][7][2][4] [0][0][0][0]	S 702	SLAVER	HOST IP	172400000000	
Step12	Insert the IP of router	[*]	S 702	SLAVER	ROUTE IP	000000000000	
Step13	Insert the mask of route	[*]	S 702	MASK	ADDRESS	020305070901	
Step14	Default is not real-time output, real-time output is alternative.	[*]	S 702		NO	REAL-TIME	
Step15	Exit and go to next setting item	[*]	S 703		-----	RS232	

5.4.7.4 Work Modes (703)

RS Series has three work modes: Stand Alone, FV Slave and FV Master. Stand Alone is the traditional work mode, and the FV Slave and FV Master concern to the new one: Floating Vendor Function. For details, please check the Appendix A.

5.4.8 Password Management (Group 8)

Group 8 has two items: 801 password edit and 802 authority edit.

5.4.8.1 Password Management

There are 4 passwords; the related information is as follows:

Item	Vendor's password	Manager's password	Boss's password	Service's password
How to insert password	Insert the ID #, then password			
ID #	Vendor key. E.g. [V1] key	[2] key	[1] key	[PLU] key

Default password	No password	666666	888888	246813
Default authority	No	Can edit group 1,2,4,6,7	Can edit group 1,2,3,4,6,7,8	Can edit all setting items
Edit	The default can be changed in setting 801			Cannot be changed
Authority is given by	Boss	Boss	Service man	Cannot be edited
Can be changed by	Vendor/Manager/Boss/Service	Manager/Boss/Service	Boss/Service	

5.4.8.2 Password Edit (801)

For example: change boss's password to 123456

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step2	Access to setting 801	[8][0][1]	S 801		-----	PW MANAGER	
Step3	Default edit the password of manager	[*]	S 801		CHG PW	MANAGER PW	
Step4	Select to edit vendor's password	[→T←]	S 801		CHG PW	VENDOR PW	
Step5	Select to edit boss's password	[→T←]	S 801		CHG PW	BOSS PW	
Step6	Insert the new password	[*]	S 801	CHG PW	BOSS	NEW	
Step7	Insert the new password	[1][2][3][4][5][6]	S 801	CHG PW	BOSS	*NEW *****	
Step8	Insert the new password again	[*][1][2][3][4][5][6]	S 801	CHG PW	BOSS	**AGAIN*****	
Step9	Edit manager's password	[*]	S 801	CHG PW		MANAGER	

Notice: If the data inserted the second time is not the same as that inserted the 1st time, then "PW ERROR" will be displayed for a while for requirement again.

If you don't insert anything when new password is required, and press [*], then the previous password will be deleted.

When editing vendor's password, vendor # is required as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step10	Edit vendor's password	[→T←]	S 801		CHG PW	VENDOR PW	
Step11	Default edit Vendor 1, insert 2	[*][2]	S 801	CHG PW	VENDOR 2	INPUT VENDOR	
Step12	Insert the new password	[*][1][2][3][4]		CHG PW	VENDOR 2	NEW *****	
Step13		-----		CHG PW			

5.4.8.3 Authority (802)

Setting item 802 is available only when you access setup mode with boss or service password.

For example: Access to setup mode with boss's password, set the authority of vendor as follows. The authority will include group 1 and setting item 801. After a vendor has this authority, he can access to any setting item in group 1 and setting item 801.

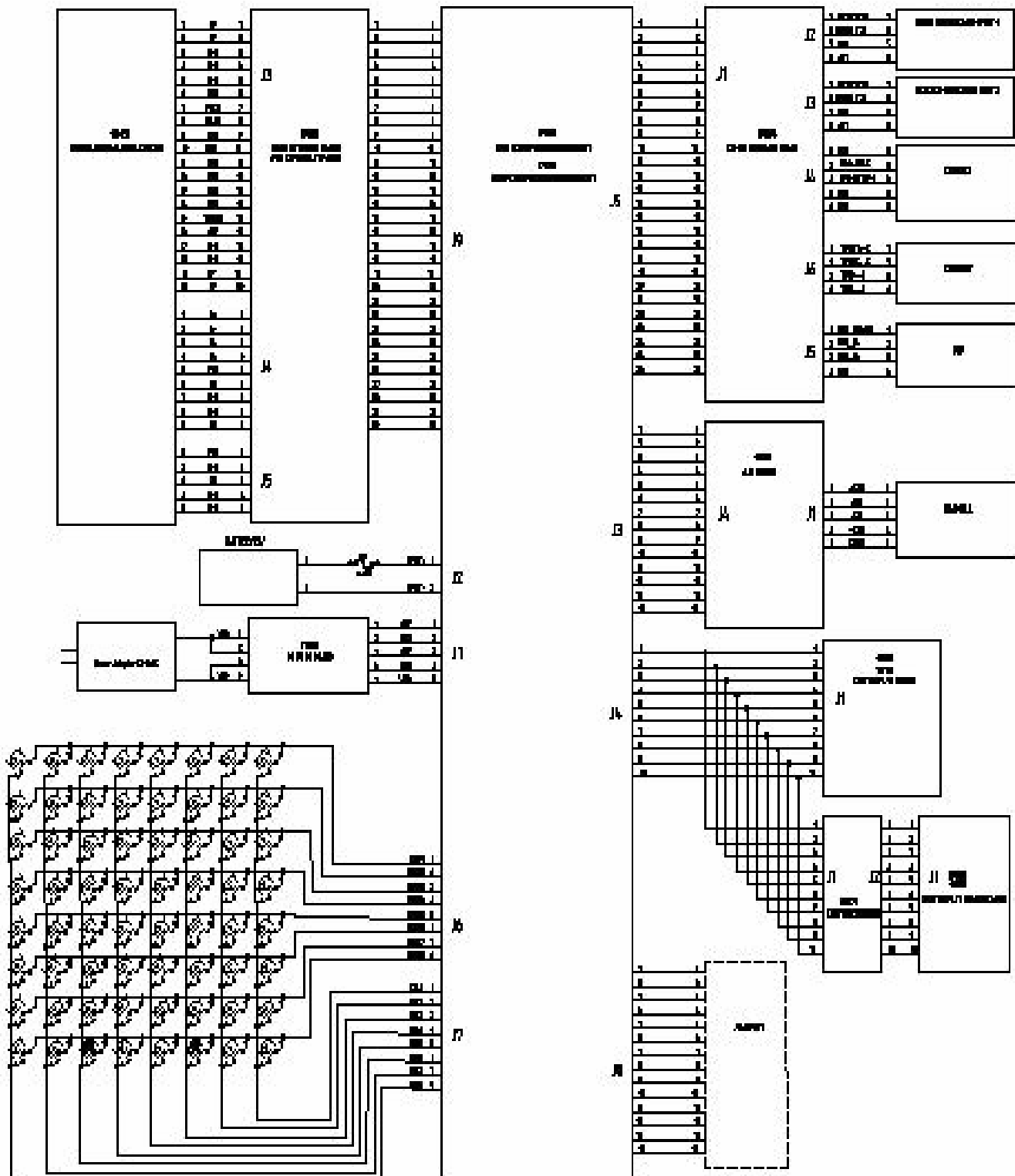
Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step14	In setup mode, "GR XX" is shown. e.g. "Gr 01"	-----	GR 01		-----	INFO INPUT	
Step15	Access to setting 802	[8][0][2]	S 802		-----	RIGHT LIMIT	
Step16	Default edit vendor's authority, press tare key may select to edit manager's.	[*]	S 802		RIGHT L	VENDOR	
Step17	Default authority is none.	[*]	S 802		VENDOR		
Step18	Add authority to edit group 1 and setting 801	[+][1][+][8][0][1]	S 802		VENDOR	*+1+801	
Step19	Edit manager's authority	[*]	S 802		RIGHT L	VENDOR	
Step20	Exit and go to next item	[MODE]	S 801		-----	PW MANAGER	

*+ means add authority, - means delete authority, "all" means all groups except group 5.

E.g.: +1-106 means add authority to edit all setting items in group 1 except item 106.

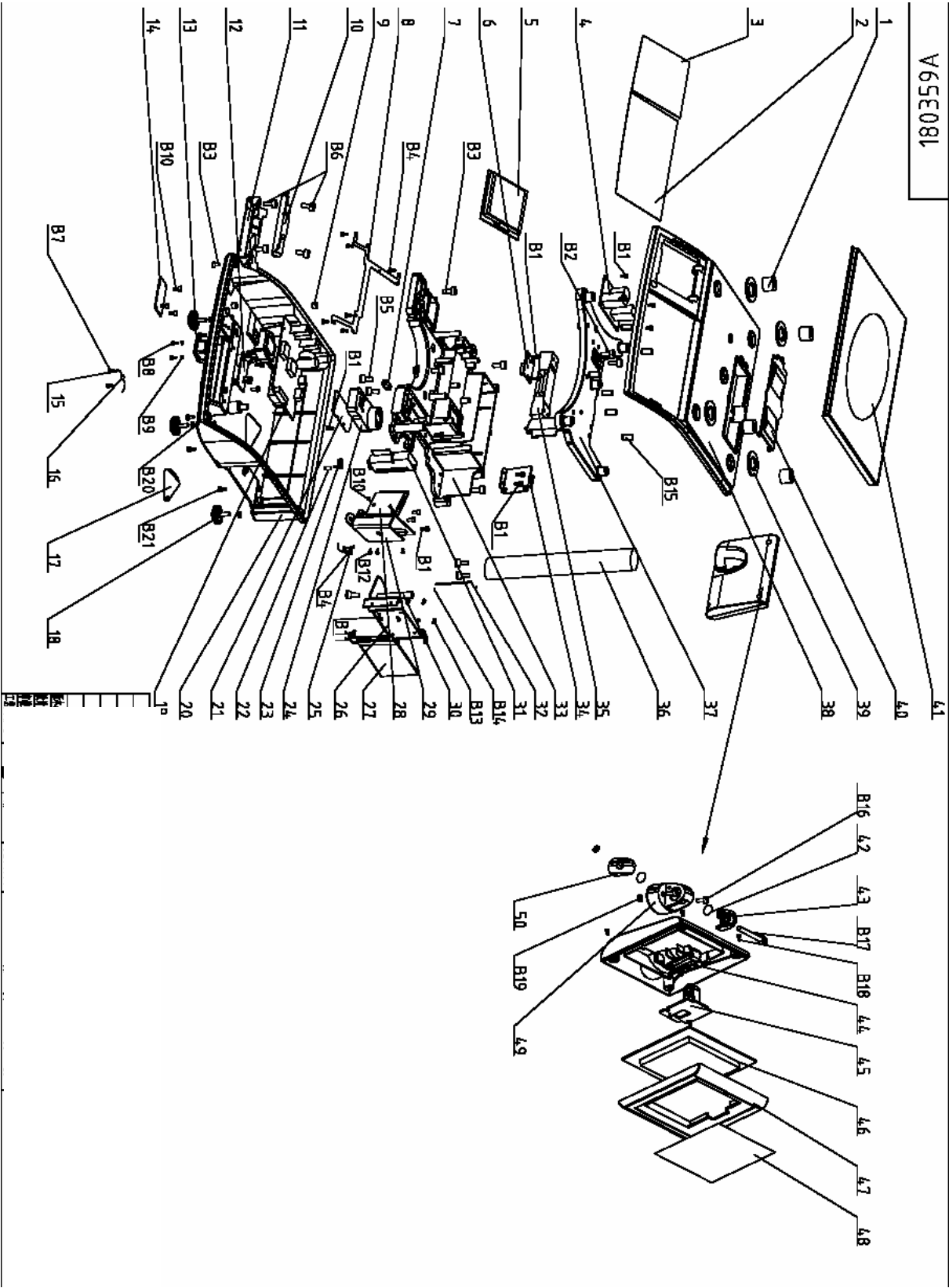
If inputted data is not valid, "input error" will be shown, and you must insert new data.

6 Connection Diagram








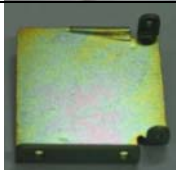





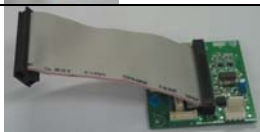

7 Scale Structure












7.1 Explosion Drawing




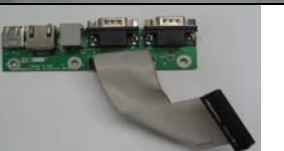











7.2 Parts list

ID	CIMF	Description	Picture
50	72174057	Right block, column top cover	
49	72174059	Top cover, plastic column	
48	72191898	RS Display filter, tower, 15kg, €	
47	72172326	Front cover, plastic, tower	
46	72181192	PCB subassembly, tower display	
45	72174118	Tie-in between tower display and tower	
44	72172327	Back cover, plastic, tower	
43	72174058	Left block, top cover of column	
42	72174563	Rubber washer, slip-proof, tower	
41	72172332	Platter	
40	72172320	Battery cover	
39	72135242	Cockroach ring	

38	72172317	Up cover		
37	72172334	Up spider		
36	72174316	Tower column		
35	71128575	AM1 (40KG) Load cell		
	71123143	AM1 (6KG) Load cell		
	71123142	AM1 (15KG) Load cell		
	71123141	AM1 (30KG) Load cell		
34	72172330	Backboard, printing structure		
33	72172319	Down spider		
32	72174318	Axle, fixing printing bracket		
31	72139925	Printer head		
30	72174317	Axle, fixing paper roll		
29	72172328	Bracket fixing printer head		
28	72167093	PCB subassembly, printing		
27	72172323	Plastic door, printing		

26	72172329	Bracket for plastic door	
25	72175035	Harness, load cell to main PCB	
24	72174116	Tower base	
23	72172322	Switch, open printer door	
22	72179583	Slipcover for a button	
21	72172333	Cover of tower base	
20	72172318	Scale base, plastic	
19	72177531	PCB assembly, main board	
18	72181191	Foot	
17	72179582	Plate for covering LC fixture hole	
14	72177107	PCB assembly, DC/DC	

13	72174570	Power harness		
12	72171837	PCB subassembly, A/D		
11	72174304	Bracket for communication PCB		
10	72167094	PCB subassembly, communication		
9	72148625	Level bubble $\phi 11 \times 7.5$		
8	72179571	Metal belt ground		
7	72179615	Padding, load cell		
6	72176974	PCB subassembly, display adapter		
5	72167091	PCB assembly, operator display		
4	72170662	Switch power		
	72172325	Display filter, operator, 15kg, \$		
3	72191896	RS Display filter, operator, 15kg, €		
2	72191900	RS Series Overlay with keys English		
1	72133149	Rubber Bumper		

8 Service

8.1 Very Important Notice

Before opening the scale, please assure to disconnect the power cord from the scale.

Only qualified serviceman may open the scale for service.

Be careful about static power by wearing static-proof wrist belt when touch PCB

8.2 Change Parts

8.2.1 Open Scale

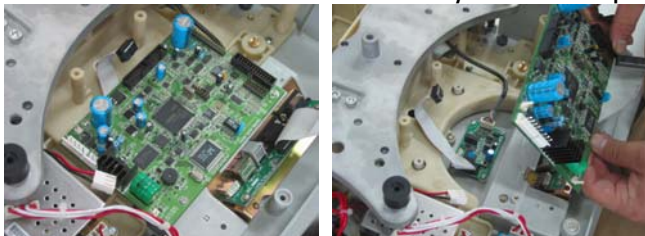
The procedure to open the scale is as follows:

1. Put the scale upside down
2. All fixing screws are in the holes circled in red
3. Unscrews all fixing screws (Don't press the scale heavily, specially for 3kg scale)
4. Put the scale upward, and open the up cover a little
5. Because the keyboard is connected with main PCB, please pull the display cable out, then remove the up cover



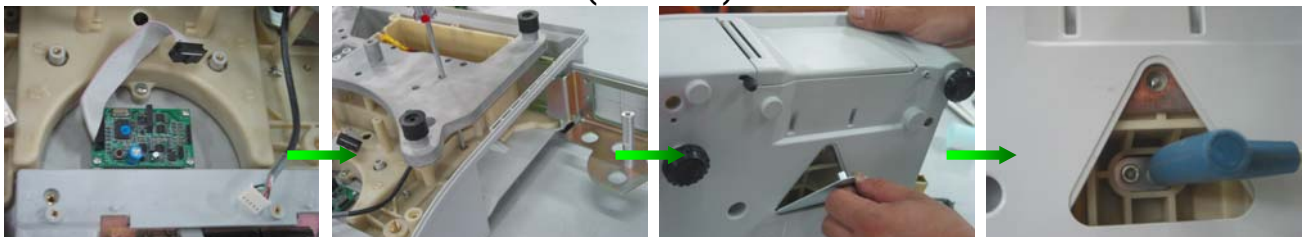
8.2.2 Change A/D PCB

1. Open the scale;
2. Disconnect all cables plugged in main PCB;
3. Remove main PCB to see A/D PCB;
4. Disconnect the load cell cable, and remove the old A/D board;
5. Install the new PCB in the same way with reverse procedure.



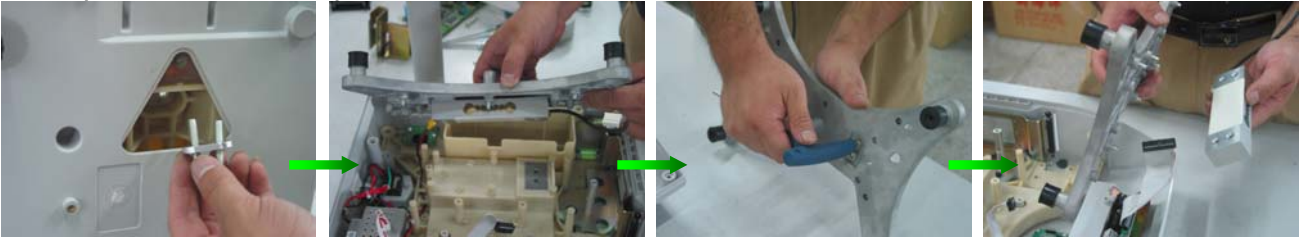
8.2.3 Change Load cell

1. Open the scale, remove main PCB
2. Pull the load cell cable out of A/D PCB
3. Put the plus driver through the hole in the spider to remove one screw which used to fix the triangle metal cover for load cell seal;
4. Put the scale right side down to remove the cover;
5. Use screw driver to unscrew the 2 Allen screws (M6x20mm)



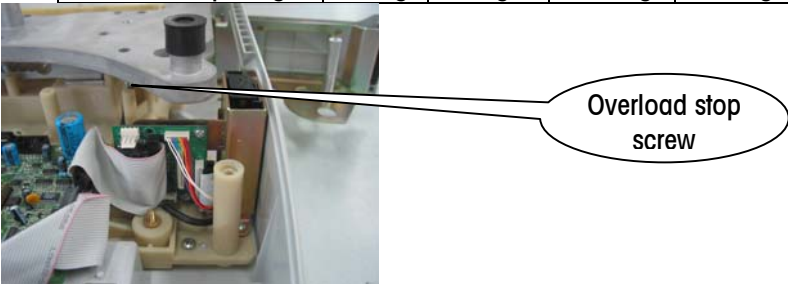
6. Take 2 Allen screws and one aluminum washer out. Be careful not forget to install this wash when install load cell;
7. Use Allen screw driver to unscrew the 2 Allen screws to fix load cell

8. Separate load cell from spider



- 9. Install a new one as the way in the last 2 slides, but reverse procedure
- 10. Put the rubber bumper on 4 columns on the corner of spider, and put the platter on the spider;
- 11. Adjust the shift of the load cell;
- 12. There are 6 overload stops, 4 on the 4 corners, 2 on the middle of spider
- 13. Adjust the overload gaps, the used weight is as follows:

Capacity	3kg	6kg	15kg	30kg
Overload stop weight	4.5kg	9kg	22.5kg	40kg



- 14. Put the weight on the following positions of the platter respectively, and adjust the overload stop screw under weight to assure the overload stop gap is just closed.
- 15. After overload gap adjustment finished, remove the platter
- 16. Connect load cell with A/D board, and connect all other cable well, install the up cover, put the platter on.

8.2.4 Change Power Switch

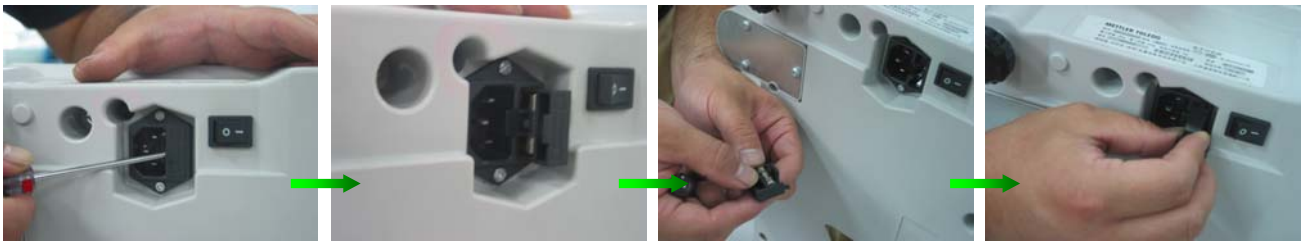
- 1. Open scale, remove all scales connected with power switch PCB;
- 2. Be careful that one fixing screw is under the spider. Please put the plus screw driver through a hole in the scale to unscrew it;
- 3. Remove the old one, put a new one on, and install all fixing screws, and connect all related cables;
- 4. Install the up cover.



8.2.5 Change Fuse

The Fuse is 125V/3A, The way to change it is as follows:

- 1. Fuse is in the power socket of the scale;
- 2. Use a screw driver to prize up the cover of the fuse box;
- 3. Take out the fuse with its box;
- 4. Remove the old one, and put a new one in
- 5. Put the fuse box back and cover the holder cover;
- 6. Press the cover heavily to assure it is fixed well.

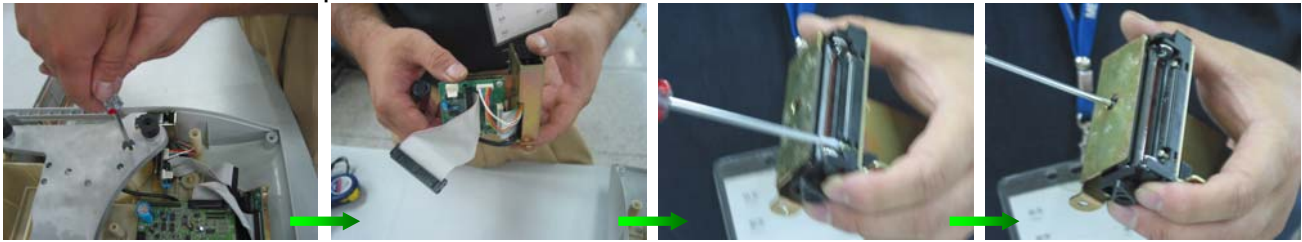


8.2.6 Change Printer Head

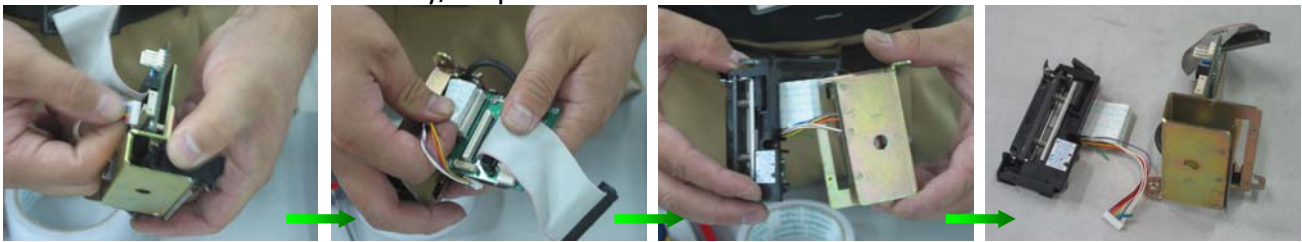
1. Open scale, disconnect all cables on the printing PCB;
2. Remove all screws to fix printing bracket

Be careful that one screw is under the spider, the plus crew driver should put trough a hole in the spider to unscrew

3. Take out printing bracket with printing PCB and printer head;
4. Remove 3 screws to fix printer head onto the bracket as illustrated



5. Disconnect the printer head cable and sensor cable from printing PCB;
6. Remove the printer head;
7. Install a new one in the same way, but procedure is reverse.



9 Update Software

There are 2 softwares, boot and application software. Both can be flashed through COM2 and Ethernet in the same way. The methods are described in the next 2 sections.

Notice: Please don't use Ethernet to flash boot software because if through Ethernet, any interruption during the process of flashing may result in collapse of system.

9.1 Update Software with HyperTerminal

Preparation: Connect RS232 to the PC and COM 2 of the scale.

Steps:

1. Open the menu in Windows: "Start" 、 "Programs"、 "Annex"、 "Communication"、 "Hyper Terminal ".

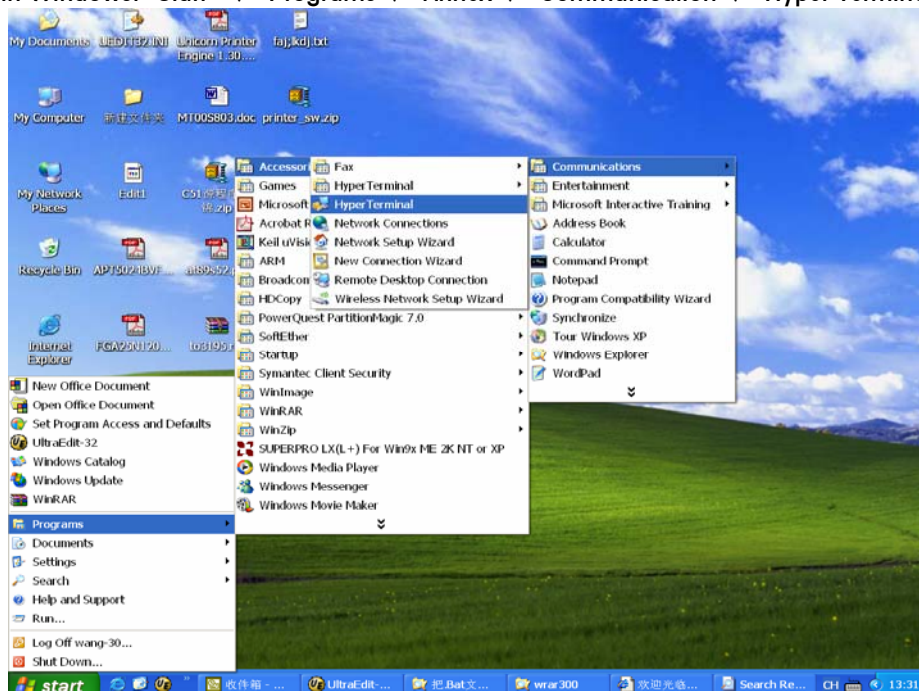


Figure 1-1

2. Figure 1-2 comes out, input the new name and select one icon, click the button "OK" .



Figure 1-2



Figure 1-3

3. Then the figure 1-3 turns out ,select COM port, click the button "OK" to finish it.

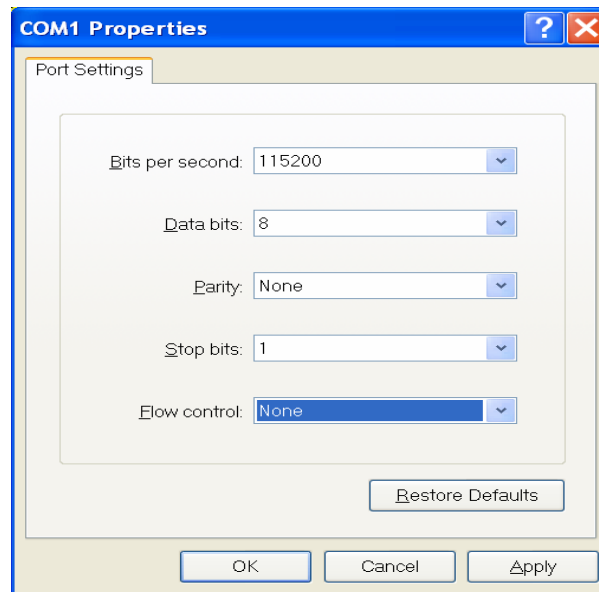


Figure 1-4

4. Figure 1-4 appears. Select suitable parameters, baud rate is 115200, others are shown in the figure.
5. Press and hold key [*] to turn on scale. "Wait 4 host" will be shown to indicate the scale is in software flash waiting mode.
6. Click the button 'OK' in figure 1-4, it will show as follow:

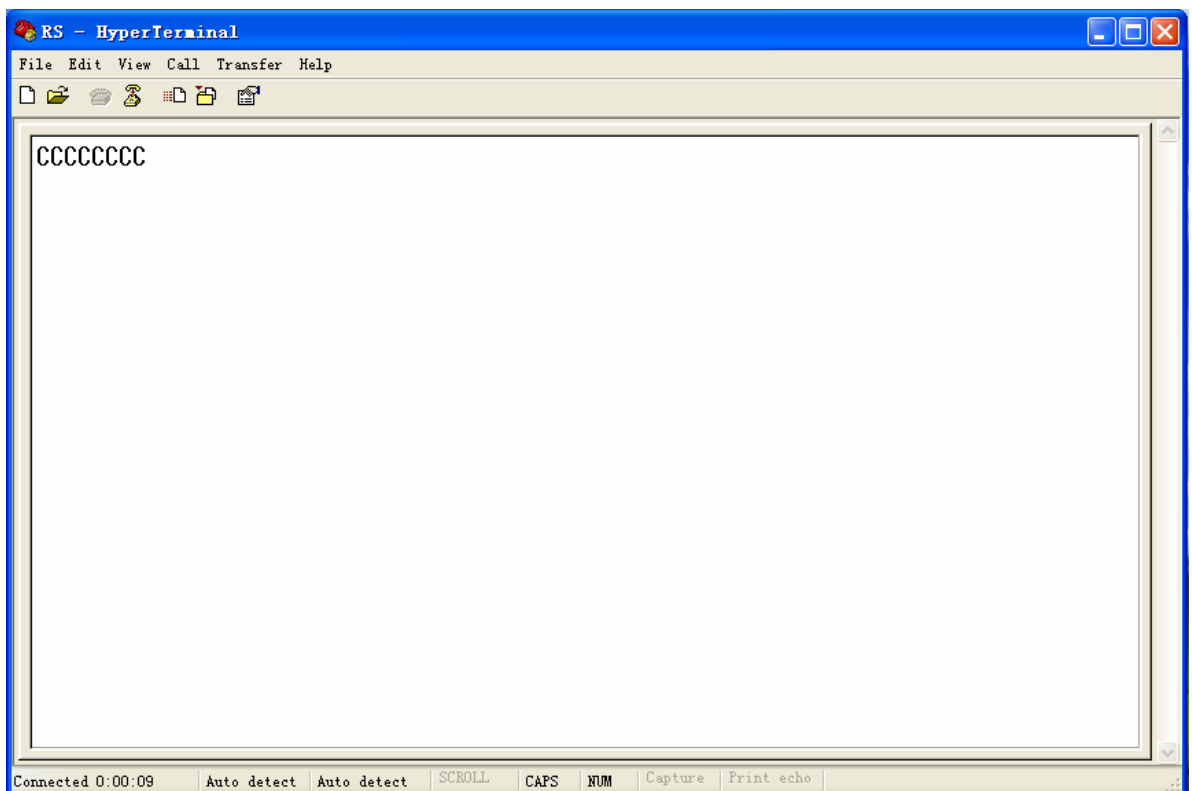


Figure 1-5

7. After figure 1-5 appears, open the menu "Transfer", "Send", then "Send file", the figure 1-6 turns out. Find the software needed through the button "Browser", and then select "1k Xmodem" in "Protocol". Press the button "OK".

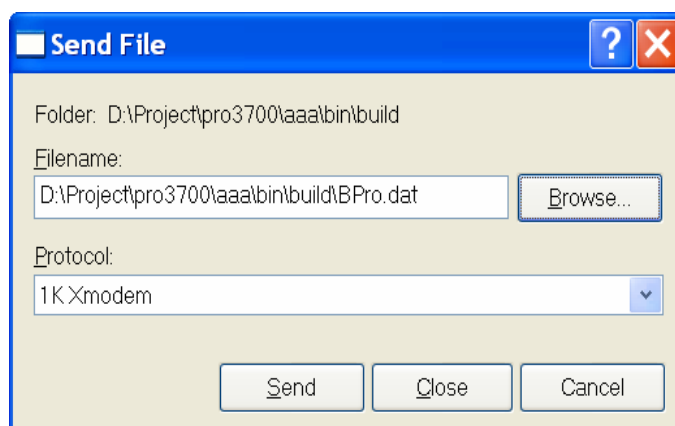


Figure 1-6

8. Figure 1-7 appears, indicating the process of sending.

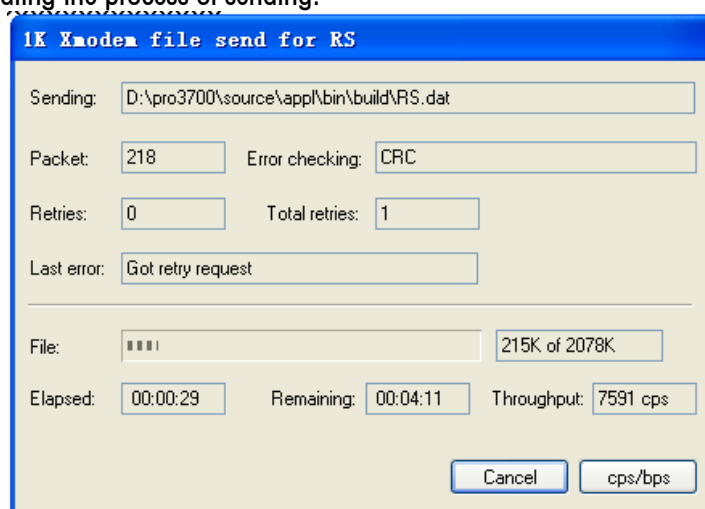


Figure 1-7

9. The dialogue will disappear automatically after the process of sending

10. The scale will self-check and get to weighing mode.

Notice: After software update, if "Error 203" is shown on the screen, please press [Mode], then [→T←], and then [*] to reset the scale.

9.2 Update Software Through Ethernet

IP configure:

If your scale and PC are connected by cross cable, please do the following actions:

1. Configure the Scale IP and Net Mask in function 702;
2. Print the scale Internal Parameter, [Mode] + [L];
3. Access to the TCP/IP setting as the following figure show:

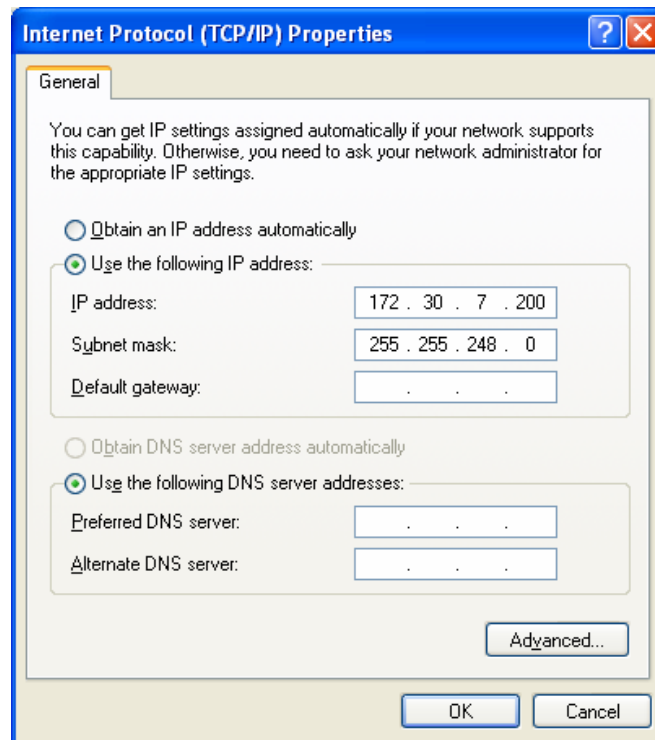
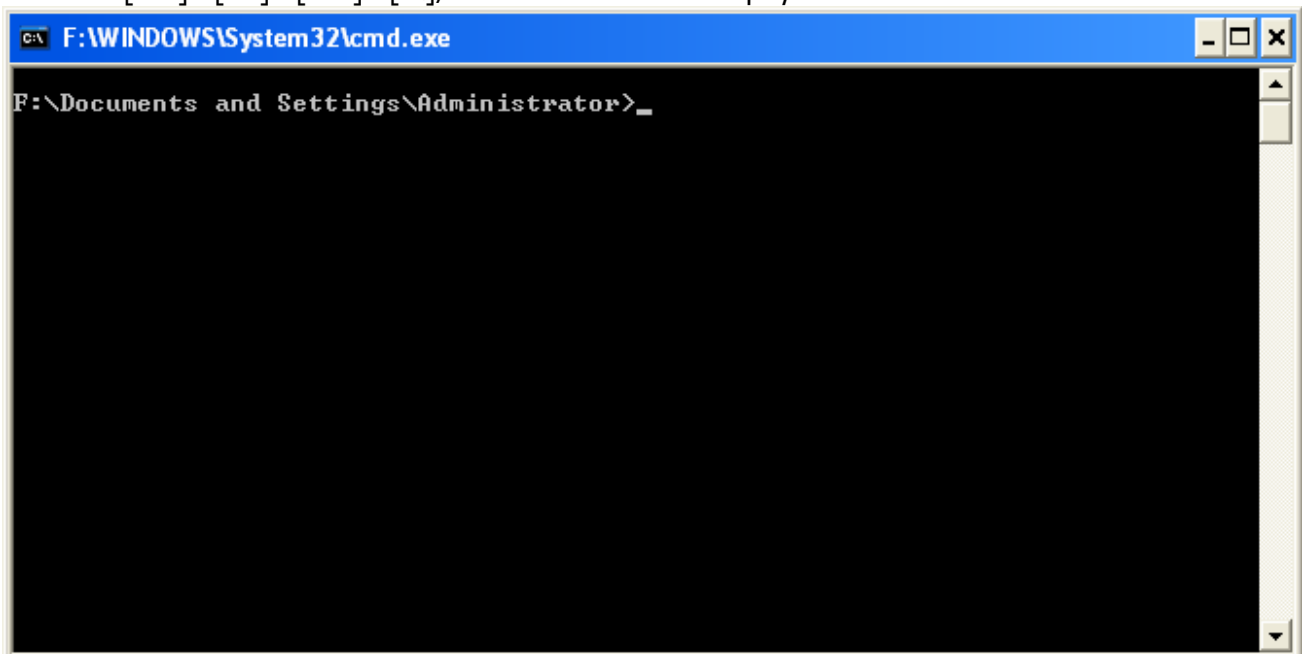


Figure 2-1

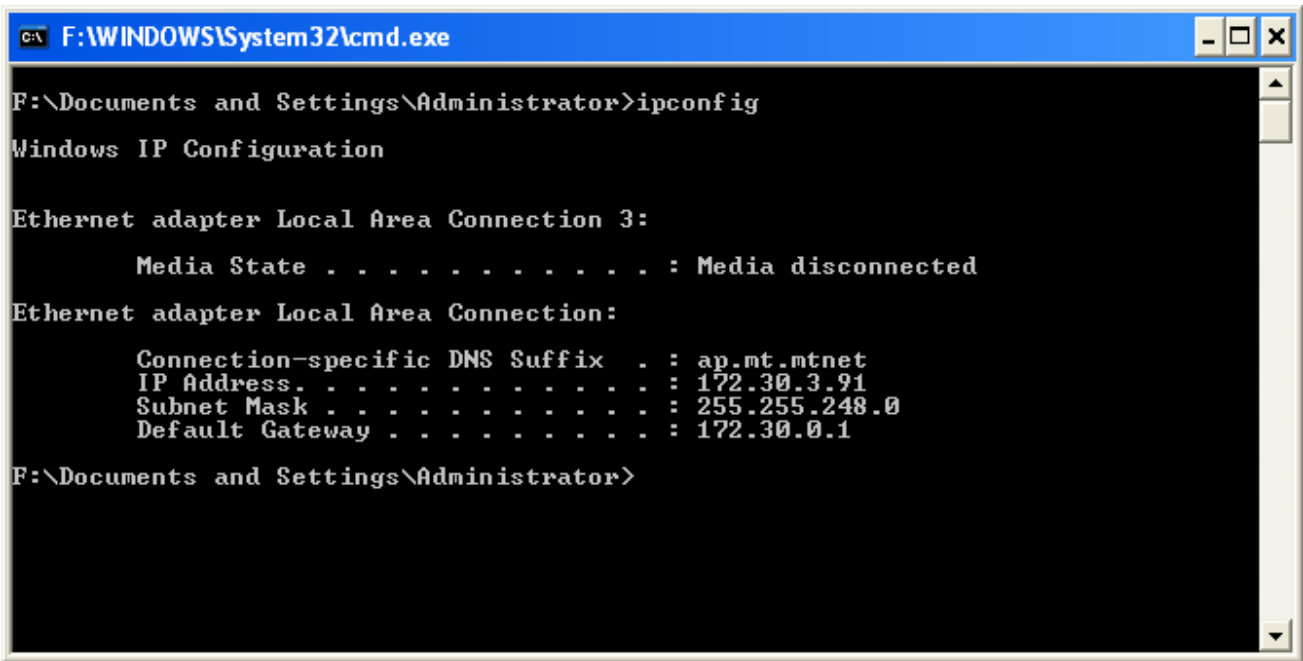
4. Configure the PC IP in function 702, set the PC IP similar to the scale one, such as "172.30.7.201" in scale and "172.30.7.200" in PC.
5. Configure the PC Net Mask in function 702, set scale and PC 's Net Mask same.
6. Press [ok] to save the setting and exit.

If your scale and PC connect to the Router which is DHCP enable, please do the following actions:

1. Press [start]->[run]->[cmd]->[ok], then a windows console display:



2. Input the command: "ipconfig", and press [Enter], in order to showing the ip parameter.



3. Configure the scale IP in function 702, set the scale IP similar to the PC ip, such as PC ip is "172.30.3.91", and the scale IP is "172.30.3.92";
4. Configure the scale Net mask in function 702, set the scale Net Mask same as the PC Net Mask.;

After finish the IP configure, then do the Ethernet update:

Steps:

1. Put udpflash.exe and udpflash.ini in any directory of the PC, click the logo "udpflash.exe" twice and the interface will display as follow:

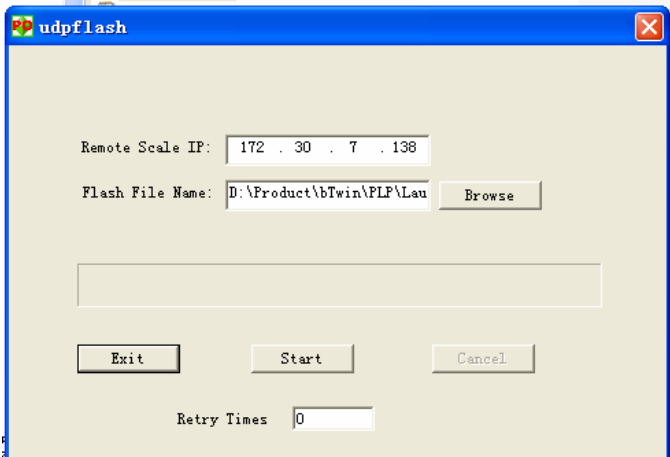


Figure 2-2

Input scale IP address in "Remote Scale IP" and select the application software by pressing the "Browser" button.

2. Press and hold the [V1] key to turn on the scale, the display will show "NETWORK FLASH".
3. The process shown as follow will come out after clicking the "Start" button. When the process is finished, the prompt of finished will come out.

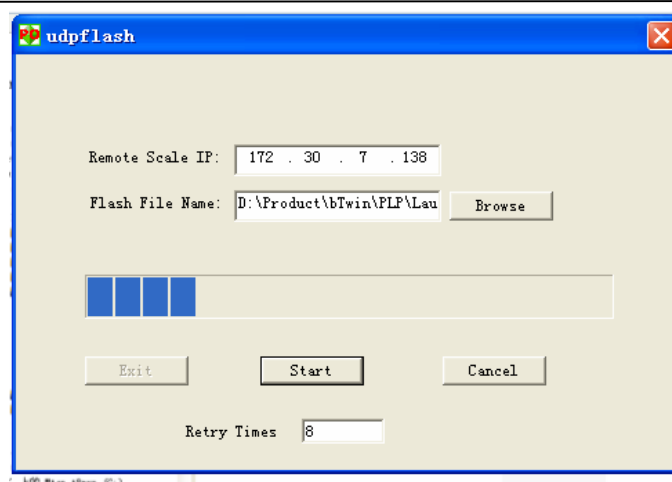


Figure 2-3



Figure 2-4

Notice: After software update, if "Error 203" is shown on the screen, please press [Mode], then [→T←], and then [*] to reset the scale.

10 Error Shooting

10.1 Warning

Warning information will occur when an operation is wrong. Usually this information is displayed on the bottom line for about 1 second. It can be cleared by pressing key [C].

Prompt	Instruction
<i>TOO SMALL</i>	Insert data is too small
<i>INPUT ERROR</i>	Insert error
<i>MEM ERROR</i>	Error occurs when setting information is being written into memory
<i>FUN UNABLE</i>	This function is disabled
<i>0 TOO SMALL</i>	Zero value is too small in the process of calibration
<i>0 TOO LARGE</i>	Zero value is too large in the process of calibration
<i>WT TOO SMALL</i>	The loaded weight is too small in the process of calibration
<i>WT TOO LARGE</i>	The loaded weight is too large in the process of calibration
<i>WEIGHT AGAIN</i>	The weight does not change before accumulation
<i>WT TOO SMALL</i>	The weight is less than 20e when printing label or accumulation
<i>WT TOO HEAVY</i>	The weight on the platter is more than full capacity plus 9e
<i>NO STABLE</i>	The weight is not stable when scale is turned on
<i>CONF. ERROR</i>	The configuration is not right when the scale is turned on
<i>AMOUNT IS 0</i>	The total price is 0 when printing label or accumulation of transaction
<i>NO THIS PLU</i>	PLU is not found when recall PLU
<i>TARE TOO BIG</i>	Preset tare is more than full capacity
<i>NOT LOG IN</i>	Operator has not logged in
<i>CHANGE PAPER</i>	No paper
<i>WRONG VENDOR</i>	Operator doesn't exist
<i>NO DISCOUNT</i>	The discount has not been preset

<i>DISC IMPOSS</i>	Does not meet discount condition
<i>NO VOID</i>	There is no transaction which could be voided
<i>NO CUST MEN</i>	There is no record of customer in the database
<i>MEMORY FULL</i>	Memory is full
<i>ERROR 203</i>	Check sum of data base is wrong

10.2 Error Shooting

The follow error will not disappear until the problem is solved.

Error	Reason	Solution
<i>E300 PRINTER</i>	Circuit error of printing driver	Change Main PCB
<i>E301 PRINTER</i>	Circuit error of printing driver	1) Update Software; 2) Change main PCB
<i>E307 PRINTER</i>	Printer head error	1) Change print head; 2) Change header cable; 3) Change main PCB
<i>E308 PRINTER</i>	Circuit error of printing driver	Change main PCB
<i>E310 PRINTER</i>	Circuit error of printing driver	Change main PCB
<i>E100 CHECKSU</i>	Software error	1) Update software; 2) Change EPPROM; 3) Change main PCB
<i>E101 RP</i>	Circuit error of Real time clock	Change main PCB
<i>E400 CELL</i>	Output of load cell is too small	1) Change main PCB; 2) Change load cell
<i>E 401 CELL</i>	Calibration parameter error	1) Calibrate scale; 2) Change main PCB; 3) Change load cell
<i>E200 DATABAS</i>	data base error	1) Reset scale; 2) Change main PCB
<i>E201 XX DATA</i>	data base error	1) Delete XX data; ; 2) Reset scale; 3) Change main PCB
<i>E202 YY DATA</i>	data base error	1) Delete YY data; 2) Reset scale; 3) Change main PCB
<i>E203 ZZ DATA</i>	data base error	1) Configure ZZ data; 2) Reset scale; 3) Change main PCB
<i>E205 DATABAS</i>	data base error	1) Reset scale; 2) Change main PCB

*XX: data code	*YY: data code	*ZZ: data code
01: vendor statistic data	01: vendor statistic data	01: vendor configuration
02: ticket statistic data	02: ticket statistic data	03: keyboard configuration
03: date statistic data	03: date statistic data	04: code configuration
04: text data	04: text data	
05:EAN format data	05:EAN format data	
06: tare data	06: tare data	
07: group data	07: group data	
15: date instruction data	15: date instruction data	
23: store name	24: PLU data	
24: PLU data		

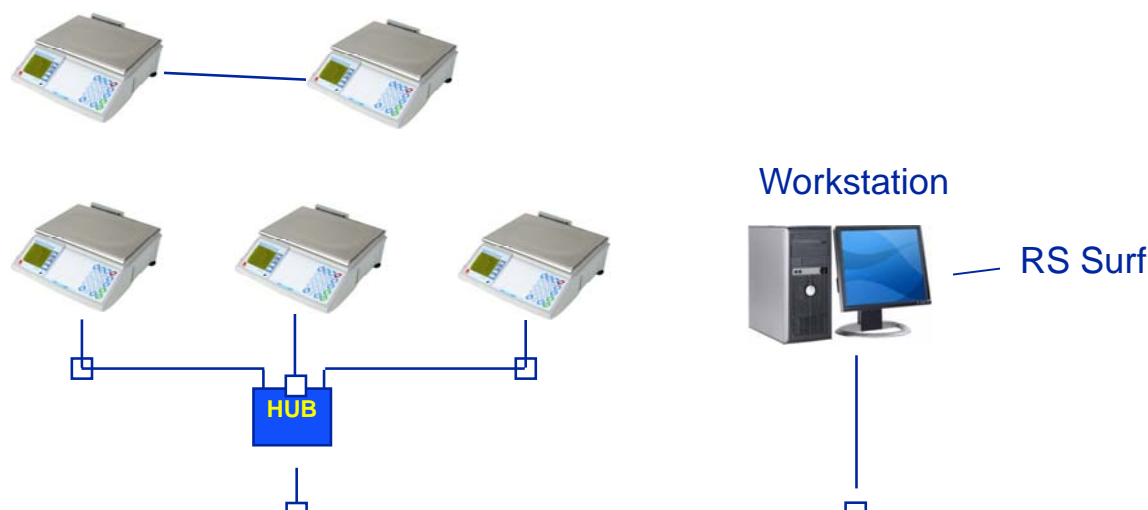
11 Appendix A:

Floating Vendor Function

In FV (Floating Vendor) mode, all scales in the network will share the data in the master scale. You may do business on anyone scale like all scales in the network as one scale, so the ticket can be printed on any scales.

1. How to set a FV network

The scale should have an Ethernet port. If only 2 scales connect with each other, you may use a cross cable to join them together. If there are at least 3 scales in the network, one hub will be needed for a FV network.



1.1 Configured by Cross Cable

1.1.1 Device Requirements

Two scales are able to make a FV network by using a cross cable, see device list as below:

FV Function Devices List (Cross Cable)		
1	RS Series with the Ethernet Port	2 Units
2	Cross Cable *	1 Piece

* Pay attention please: there are two types of the Net Cable, the one is direct cable, and another is cross cable. Please check the cable type before you connect with two scales.

1.1.2 Devices Setup

Put one head of the cross cable into the Ethernet Port of one RS Series, which we name Scale A and then put another head into the Ethernet Port of another RS Series, which we call Scale B.

1.1.3 Software Set up

There are two parts of the software setup, the one inputs scale IP in the function 702, and the other builds up the relationship of FV Network in function 703.

1.1.4 IP Configure(702)

IP configure in 702		
Procedure	Operation	Description
1	[Mode],[1],[888888],[*]	Access to the Setting Mode
2	[Mode],[702],[*]	Access to Function 702
3	[*],[172030007200],[*]	Configure the Scale IP as 172.30.7.200
4	[255255248000],[*]	Configure the Net Mask
5	[*],[*],[*]	Finish the Procedure

According to the above steps; please input the IP of scale A with "172.30.7.200" and scale B with "172.30.7.201".

1.1.5 FV relationship Configure


The following steps are showing how to set up the relationship of FV Network.

We will use two steps to build up the FV relationship by configuring Master Scale and slave Scale.

At first, we must configure Master Scale.

the Master Scale Configure		
Procedure	Operation	Description
1	[Mode],[1],[888888],[*]	Access to the Setting Mode


2	[Mode],[703],[*]	Access to the Works Mode
3	[->T<-],[->T<-]	Select the FV Master
4	[*]	Confirm

After doing above procedure successfully, the scale is configured as FV Master scale, of course the FV Network will use all data that store in scale A, such as PLU, Discount etc. The symbol  will be showed in the screen of scale A for giving you a notice that this scale is the Master scale now.

Second, we set up the Slave one.

Configure the Slave Scale		
Procedure	Operation	Description
1	[Mode],[1],[888888],[*]	Access to the Setting Mode
2	[Mode],[703],[*]	Access to the Works Mode
3	[->T<-]	Select the FV Slave
4	[*]	Confirm

After finishing this procedure, the bottom line of the RS Series screen will show "Update Data....", meanwhile the scale B (slave scale) is copying the data from the scale A (master scale). Please make sure that the communication is running smoothly at this moment, especially do not pull out the cable. This process will be lasted nearly 60 seconds, please wait for a moment.

The scale B will show  at the bottom line of the screen, when the data transform successfully. When the Net symbols of these two scales are glitter, the FV network is OK.

1.2 HUB Configure

1.2.1 Devices Requirement

If you want to make FV network includes two more scales, you have to use the HUB for help. See the devices list as below:

FV Function Devices List (HUB)		
1	RS Series with the Ethernet Port	3 or more Units
2	Cross Cable *	3 or more Piece
3	HUB	1 Unit

* Pay attention please: there are two types of the Net Cable, the one is direct cable, and another is cross cable. Please check the cable type before you connect with two scales.

1.2.2 Devices Setup

Put one head of the Direct Net Cable into the RS Series Ethernet Port and another head connect to the HUB. Repeat this step to connect all scales with the HUB.

1.2.3 Software Setup

Also there are two parts of the software setup, the one is IP configure, another is relationship setting.

For the IP configure, the range of the IP address is from "172.30.7.200" to "172.30.7.254", and 1.1.4 is for your reference.

For relationship configure of FV network, set the only one scale as the FV master scale and the others as the FV slave scales. Of course, when slave scales are enabled, they will read the data from the Master one. More scales cost much more time, of course the network environment efforts the total time.

1.3 Exit FV Mode

The following introduces two parts of how to exit the FV function.

703 Exit the FV Function(Slave)		
Procedure	Operation	Description
1	[Mode],[1],[888888],[Mode]	Access to the Setting Mode
2	[Mode],[703],[*]	Access to the Works Mode
3	[0],[*]	Select the Stand Alone

4	[1],[*]	Select copy the data from master scale
5	[Mode],[Mode]	Exit to the Weight Mode

If you execute the setp 4, the scale will read the PLU data from Master scale to local scale.

703 Exit the FV Function(Master)		
Procedure	Operation	Description
1	[Mode],[1],[888888],[Mode]	Access to the Setting Mode
2	[Mode],[703],[*]	Access to the Works Mode
3	[0],[*]	Select the Stand Alone
4	[1],[*]	Select to print the report**
5	[1],[*]	Select to del all the report
6	[Mode],[Mode]	Exit to the Weight Mode

*The report is concerns the setting of function 616.

2. Basic Operation under the FV Function

2.1 Basic Business

As we said at the beginning of this appendix, RS Series FV function will bring out a fire-new experience when you use it. Please enjoy it along with our following example.

New Business Progress of FV Function			
Procedure	Scale	Operation	Description
1	Slave A	Put the weight on the platter, [5]	Call PLU 5
2	Slave A	[V1]	Accumulate to V1
3	Slave B	Put the weight on the platter, [6]	Call PLU 6
4	Slave B	[V1]	Accumulate to V1
5	Slave A	Put the weight on the platter, [7]	Call PLU 7
6	Slave A	[V1]	Accumulate to V1
7	Slave B	[V1]	Call the Total of V1
8	Slave B	[*]	Check out by the cash
9	Slave B	[100]	Input the payment
10	Slave B	[*]	Print the ticket
11	Master	[Mode], [1], [888888], [*]	Access to the set mode
12	Master	[602], [*]	Access to sales report
13	Master	[*],[*],[->T<-],[*]	Print the report

Check the ticket and sales report, there are three deals on it, and the PLU number is 5, 6, 7, the "payment" is 100.00. The sales report includes correct value of the above operations. The discount and the other function that stand alone available are all ok on the FV network.

2.2 Master Scale in the FV Function

The operations and menu of Master scale are same as the stand alone one.

2.3 Slave Scale in the FV Function

When the scale is set as slave scale in the FV network, only three functions is available, there are 305,701,703. For 703, it is used for backing to the stand alone, and 701 is used for the serial port configure, and the 305 is used for set the RS Series to default after the accident.

3. Attentions

1. Scanner is support to the FV feature?
2. Absolutely, in the FV Network, there is only one scale as Master Scale.
3. Please to make sure that you must turn on the master scale first, and then slave one.
4. Slave scale will update the data after turning on the scale.
5. Please do NOT modify the scale IP when the scale on the FV network.
6. The HUB which is used for the FV network, please do NOT connect it to the WLAN.
7. When the data transforming, please make the network run well.

4. Menu Description

The following list shows the details of the FV function, it is for your reference.

4.1 Group 1

RS Series Group 1 FV Feature List			
Menu	Description	FV Available	Data Update Method
101	PLU edit	Available	Real-time
102	Price change	Available	Real-time
103	PLU content	Unavailable	N/A
104	Group edit	Available	Real-time
105	Vendor edit	Available	Real-time
106	Date/time	Available	Real-time
107	Shop edit	Available	Real-time
108	Scale no.	Unavailable	N/A
109	Head/footer	Available	Real-time
110	Extra text	Unavailable	N/A
111	Tare edit	Available	Real-time
112	Bar code	Available	Real-time
113	Bar c VS T/L	Available	Real-time
114	Inventory	Unavailable	N/A
115	Settle	Unavailable	N/A
116	Discount	Available	Real-time
121	Product date	Unavailable	N/A
122	Print PLU	Unavailable	N/A

4.2 Group 2

RS Series Group 2 FV Feature List			
Menu	Description	FV Available	Data Update Method
201	Restore default of group2	Unavailable	N/A
202	Print ticket or label	Available	Real-time
203	Print ticket?	Available	Real-time
204	Print content of ticket	Unavailable	N/A
205	Print stub	Available	Real-time
206	Print ticket copy	Available	Real-time
207	Way to print tickets	Unavailable	N/A
208	Ticket format	Unavailable	N/A
209	Default label format of by weight PLU	Unavailable	N/A
210	Default label format of by count PLU	Unavailable	N/A
211	Default prepack label format of by weight PLU	Unavailable	N/A
212	Default prepack label format of by count PLU	Unavailable	N/A
213	Format of total label	Unavailable	N/A
214	Reaction when press vendor key in label printing mode	Unavailable	N/A
215	Price in PLU is with VAT?	Available	Real-time
216	Print item # or PLU?	Available	Real-time
217	Print Scale # on the ticket?	Available	Real-time
218	Print vendor name on the ticket?	Available	Real-time
219	Print date and time in the ticket?	Available	Real-time

220	Print ticket serial number in the ticket	Available	Real-time
221	Print VAT in the ticket?	Available	Real-time
222	Print change in the ticket?	Available	Real-time
223	Print bar code in the ticket?	Available	Real-time
224	Print void information in the ticket?	Available	Real-time
228	Discount characters in the ticket?	Available	Real-time
229	Way to show discounted price	Available	Real-time

4.3 Group 4

RS Series Group 4 FV Feature List			
Menu	Description	FV Available	Data Update Method
401	Restore default?	Unavailable	N/A
402	Recall PLU by PLU # or item #	Available	Real-time
403	Way to recall PLU	Available	Real-time
404	Print edited content of group1?	Unavailable	N/A
405	Preset 1 or 2 PLU into one preset key	Available	Real-time
406	PLU price change enabled?	Available	Real-time
407	PLU tare change enabled?	Available	Real-time
408	Manual price enabled	Available	Real-time
409	Vendor quantity	Available	Real-time
410	VAT enabled	Available	Real-time
411	Clear unit price, tare or PLU automatically when vendor key is pressed?	Available	Real-time
412	Sleep when no weight change and key operation	Available	Real-time
413	Backlight setting(only available when battery is used)	Available	Real-time
414	Refund enabled after ticket is printed?	Available	Real-time
415	Cancel transaction before ticket is printed	Available	Real-time
416	Quantity of by count item	Unavailable	N/A
417	100g function enabled?	Available	Real-time
418	Large sale enabled?	Available	Real-time
419	Switch among sales and prepack mode	Available	Real-time
421	Settle amount enabled?	Unavailable	N/A
422	Effecting of discount key	Available	Real-time
423	How to recall discount	Available	Real-time
424	[DISC] key change discount edited insetting 116?	Available	Real-time
425	Key [DISC] set discount of PLU without edited discount	Available	Real-time
427	Discounted items enjoy total discount	Available	Real-time
435	**Way to delete report	Unavailable	N/A
436	Rewind of paper liner (N/A)	Unavailable	N/A
437	Paper moves back little before	Unavailable	N/A

	printing (N/A)		
438	Printing speed	Unavailable	N/A
439	Print contrast	Unavailable	N/A
440	1st day of the week	Unavailable	N/A
441	Filter strength	Unavailable	N/A
442	ECR checkout way	Available	Real-time
443	Multi-payment way	Available	Real time
444	BASKET-FUNC	Available	Real-time
445	TM Key	Available	Real-time

5. Error Code

Error code			
Item	Display	Content	Method
1	set to slave	There are two Master scale in the FV Network	Switch the one master to slave
2	Multi Server	There are two Master scale in the FV Network	Switch the one master to slave
3	Net Error	Network is not running well	Keep the network running well
4	Vendor Busy	Vendor is be used	Wait for the vendor free
5	Cmd Unavail	Command is disabled	Cancel this operation

12 Appendix B:

Farm Function and Manual Tare

1. Farm function

1.1 Menu

444	Farm function	<i>FARM FUNCTIO</i>	Disable farm function	<i>FARM FUN NO</i>	Enable farm function	<i>FARM FUN YES</i>	<i>NO</i>
445	Manual tare	<i>MANUAL TARE</i>	Disable Manual tare	<i>M TARE NO</i>	Enable farm function	<i>M TARE YES</i>	<i>NO</i>

When farm function is enabled, key [V] will be defined as tare memory key, and key [.] will be defined as tare recall key. In this case these 2 keys can not be used as preset keys.

When manual tare is enabled, key [P] will be defined as manual tare key. In this case this key can not be used as preset key.

1.2 Business Progress

1.2.1 Memory the Basket Weight

The customer brings his own basket. The salesman puts it on the scales then press the special function key to memorize the basket weight. The scale prints a ticket which includes the basket number and its weight. The customer must keep this ticket until he goes back to the cash deck.

Procedure	Description	Operation	Display on 1st line	Display on 2nd line	Display on 3rd line	Display on the bottom line	Lit cursor
1	Weigh mode		0.000	0.00	0.00	V1 TICKET	
2	Put the basket on the platter		0.200	0.00	0.00	V1 TICKET	
3	Press basket memory key [V]	[V]	0.000	0.00	0.00	V1 TICKET	NET
4	Print a ticket for basket		0.000	0.00	0.00	PT 0.200	NET
5	Remove the basket		0.000	0.00	0.00	V1 TICKET	

Ticket to keep

 Date: 1/5/2006 15:30
Basket No.: 10
 Tare: 0.250 kg

BN will be as the ID code of basket no.

- ✍ Basket memorizing is not possible if there's customer amount in progress.
- ✍ The scales can memorize 9999 baskets (Customer).
- ✍ During this phase, if the scale has a tare (semi automatic or preset), basket memorizing is impossible.
- ✍ This is a network function, so the basket number must be unique in the whole network.

1.2.2 Recall a basket weight

Back to the cash desk, the customer gives his ticket. The salesman press the function key "Basket recall", then enters the ticket number and validates with key. The basket number recall does as preset tare. The basket weight is displayed in the tare area (with the PT Information). The transaction can go on as usual. The basket weight is erased as soon as the transaction is printed. Tare displaying is deleted when scales returns to zero.

Notice:

- ✍ Operator put full basket on the platter and enters the basket number. (The operator does decide by himself in which order he wants to operate, first PLU and then basket number or first basket number and then PLU)
- ✍ If a barcode reader is connected, the basket number should be read in by the scanner.

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	After do some transactions, back to weigh mode		0.000	0.00	0.00	V1 P2 T 10.00	
Step2	Put the basket with items on the platter		1.200	0.00	0.00	V1 TICKET	
Step3	Press basket recall key [] and basket number (e.g.: basket number is 3) to recall basket weight	[] [3]	1.000	0.00	0.00	PT 0.200	NET
Step4	Recall a PLU or input unit price	[1]	1.000	2.00	2.00	PLU 1 PT 0.200	NET
Step5	Press operator key to accumulate the total price	[V1]	1.200	0.00	0.00	V1 P3 T 12.00	
Step6	Do other transactions as usual						

- ✎ During the basket recall, the scales must not have semi-automatic tare, otherwise "ERR T reject" is temporary displayed.
- ✎ If you're doing a sales by calling PLU with preset tare included, "ERR T in use" is temporary displayed, and the scales ignores PLU's preset tare. The basket tare priors the preset tare called by PLU.
- ✎ Successive basket recall is possible.

1.2.3 Basket Report

At the end of the day it should be possible to receive a list of non used/recalled baskets and then to decide to clear them or not. The detail operation is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	-----Get to 618 (added basket report)	[6][1][8]	5 618		-----	BASKET RPT	
Step2	Default is not to print report	[*]	5 618			PRINT NO	
Step3	Select to print report	[→T←]	5 618			PRINT YES	
Step4	Print report and go to next step	[*]	5 618			DELETE NO	
Step5	Default is not to delete report		5 618			DELETE NO	
Step6	Select to delete report	[→T←]	5 618			DELETE YES	
Step7	Go to next setting item	[*]					

Once the basket report is deleted, the basket number will be reset to 1.

If the basket number is up to 9999, but the customer still doesn't delete the report, the report will be printed and deleted automatically, and the basket number will be reset to 1.

1.2.4 Ticket format

In the ticket, the basket weight information will be printed as follows:

Basket Report		

From 2005-12-08 15:56		
To 2006-011-05 19:00 Scale		
#.:01		
Not used basket number list		
3	5	6
Subtotal	3 baskets	
Total	8 baskets	

METTLER TOLEDO		

Vendor: Susan	Ticket No.: 0001	
2005-02-08 15:56	Scale No.:01	
PLU TEXT		
Kg(PCS)	€/kg(PCS)	€
eel	0.005	9.80 4.90
Apple	PT: 0.200	Basket #: 3
N:	3.36	6.72
2.000		
P 2	Total	11.62
	Cash	12.00
	Change	0.38
YOU ARE WELCOME		

2 Manual Tare

When S445 select Enable, manual tare will be enabled, and preset key [P] will be defined as a manual tare key [TM]. In this case, it will not be used as a preset key. The way to input a manual tare is as follows:

Procedure	Description	Key operation	Display on 1 st line	Display on 2 nd line	Display on 3 rd line	Display on the bottom line	Lit cursor
Step1	Weigh mode, gross weight or net weight mode, with/without item on the platter		0.000	0.00	0.00	V1 TICKET	
Step2	Press key [TM]	[TM]	0.000	0.00	0.00	TARE IN INPUT	
Step3	Input the tare value	[2][0][0]	0.000	0.00	0.00	TM 0.200KG	
Step4	Press [→T←] to confirm	[→T←]	0.200	0.00	0.00	PT 0.200	NET
Step5	Remove all items on the platter and press [T] to press tare.		0.000	0.00	0.00	V1 TICKET	

Notice: The tare value is not more than the capacity. If it is, "Tare too big" will show on the bottom, and press [C] can clear indication, press [C] again to clear input, and then press [C] to return the scale to previous status.

If the tare is input by hand, the tare information should be printed on the ticket also as follows:

OHAUS		

Vendor: Rachel	Ticket No.: 0001	
2005-02-08 15:56	Scale No.:01	
PLU TEXT		
Kg(PCS)	€/kg(PCS)	€
eel		
0.005	9.80	4.90
Apple		
N:	3.36	6.72
2.000		
P 2	Total	11.62
	Cash	12.00
	Change	0.38
YOU ARE WELCOME		



In conformance with the European Directive 2002/96/ EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste.

This also applies to countries outside the EU, per their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

Thank you for your contribution to environmental protection.



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