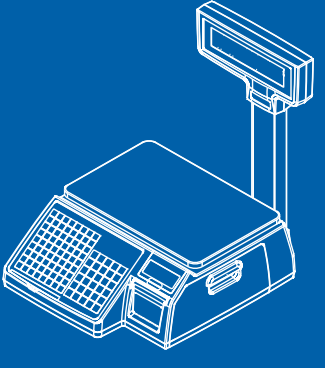
RETAIL WEIGHING SOLUTION™

CL3000 SERIES

Label Printing Scale



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OWNER'S MANUAL

CAS

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1.GENERAL

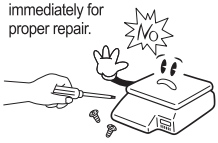
1.1 PRECAUTIONS

⚠ Warning

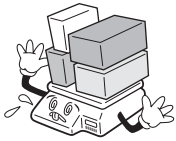
Precautions when installing the scale. To ensure that you get the most from your scale, please follow these instruction.

Do not disassemble the scale.

When any damage or defect occurs, contact your CAS authorized dealer immediately for proper repair.



Do not overload beyond the maximum weight limit.



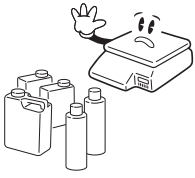
Scale must be grounded to minimize electricity static.

This will minimize defect or electric shock.

Do not pull the plug by its cord when unplugging.

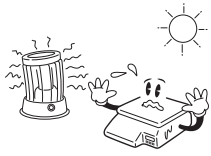
Damaged cord could cause electric shock or fire.

To prevent from fire occurring, Do not place or use the scale near flammable or corrosive gas.

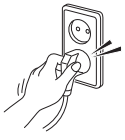


To reduce electric shock or incorrect reading, Do not spill water on the scale or place it in humid condition.

Avoid placing the scale near heater or in direct sunlight.

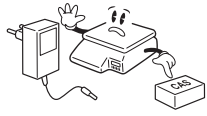


Insert plug firmly to wall outlet to prevent electric shock.



Use proper Adapter.

Incorrect adapter could damage the scale.



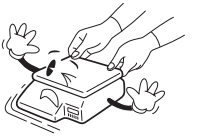
Attention

Make sure to plug your scal into the proper power outlet. For maximum performance, plug into a power outlet 30 minutes before the usage for warm up.

For consistent and accurate reading, maintain periodical check by your CAS authorized dealer.

Avoid sudden shock to the scale.

Grab on the bottom of the scale when moving.



Keep the scale away from other electromagnetic enerating devices.

This may interfere with accurate reading.

Place the scale on firm and temperature consistent environment.

By adjusting 4 comers of the scale, set the scale even using the built in scale leveling indicator.

*** This equipment is indoor use and all the communication wirings are limited to inside of the building.**

1.2 INTRODUCTIONS

Thank you for purchasing the CAS CL3000 price computing electronic printing scale. We have designed this equipment with many advanced features, high quality construction, and user-friendly menu driven programming.
We are confident that you will find the CAS CL3000 scale will meet all of your most demanding needs.

Remember, for proper installation and maintenance please have your Authorized CAS Dealer do the primary installation, programming, and demonstration. Your CAS Authorized Dealer also has a wide variety of supplies, accessories, and expansion options for whatever your new and increasing demands may require. Authorized CAS dealers are trained to help you with every aspect of the CL3000 and should you need servicing, they are expertly trained by CAS to assist you with virtually any problem.

1.3 SPECIFICATIONS

Max. Capacity	6/15kg	15/30kg	15/30 lb	30/60 lb
Interval	2/5g	5/10g	0.005/0.01 lb	0.01/0.02 lb
Max. Tare	-5.998kg	-9.995kg	-9.995 lb	-29.99lb
A/D Conversion Rate	Approx. 8 times/sec.			
Measurement Type	Load Cell			
Platter Size	380 x 244 mm			

Key	Standard Type (B)	40 PLU key, 30 function key	Pole Type (P) Hanging Type (H)	72 PLU key, 30 function key
Speed Key		80 PLU		144 PLU
Display	Graphic LCD			
	Preset Tare : 4 digit Weight : 5 digit Unit Price : 6 digit Total Price : 6 digit		Weight : 5 digit Unit Price : 6 digit Total Price : 7 digit	

Printer	Speed : 100,110 m/sec.
Printing Resolution	202 dpi
Label Size	Width: 40mm~60 mm Length: 30mm~100 mm
Barcode Type	EAN13, EAN13A5, EAN8, I2OF5, UPCA, UPC13, CODE39, CODE93, CODE128,CODABAR
Font	Small, Middle, Large Size, Free Format, Italic, Bold, Underline, Through Line, Double through line, Reverse, shadow, outline
Printer Type	DIRECT THERMAL PRINT

Operating Temp.	-10°C ~ 40°C (14°F ~ 104°F)
Power	AC 180~240V 50/60Hz 1.5A

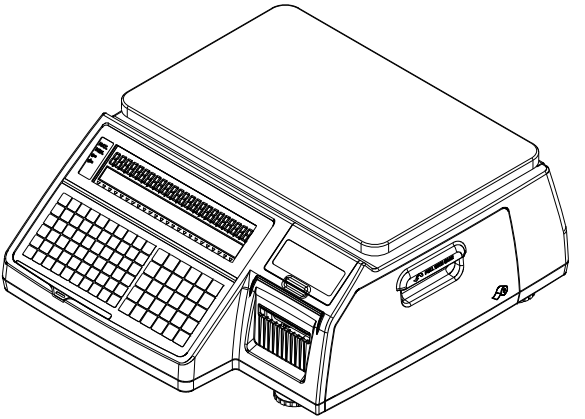
		Number	Range
Programmable Data	PLU	3000	1~99999
	Ingredient 510 character	999	1~999
	User Defined Barcode Format	99	1~99
	Department	99	1~99
	Tax Type	9	1~9
	Group	99	1~99
	Clerk	31	1~31
	Discount	99	-
	Origin	499	1~499
	Traceability	99	1~99
	Slaughter House	99	1~99
	Cutting Hall	99	1~99
	Traceability Country	99	1~99
	Label Format	45	Fixed
		20	Free Format
	Bitmap Image	14	
	Customer	99	1~99
	Quantity symbol	8	1~8
	Scroll Message	9	1~9
	X1,X2,Z1,Z2 Report		
	Pay Type	7	
	Sales Message	99	1~99
	Nutrition fact	99	1~99
	Tare Table	99	1~99

Sales Period	Dual totals for daily/monthly or user selectable reporting period.
Sales Report Mode	Read : X1/X2 Mode, Read & Reset: Z1/Z2 Mode

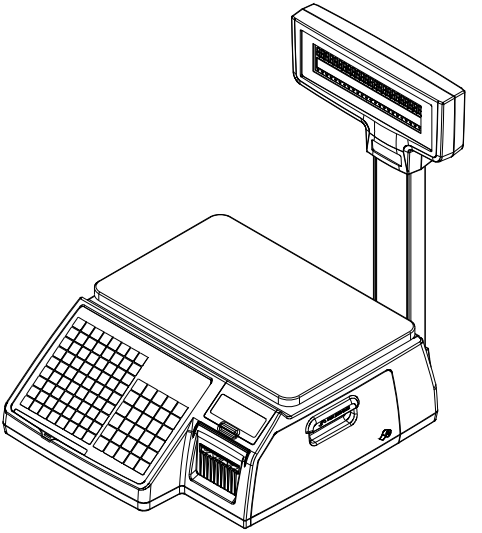
Note: Specifications are subject to change without notice.

1.4 NAME AND FUNCTIONS

■ **Standard Type**



■ **Pole Type**

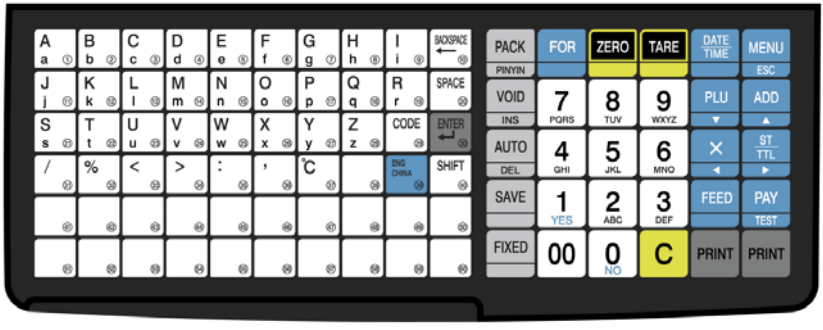


DISPLAY

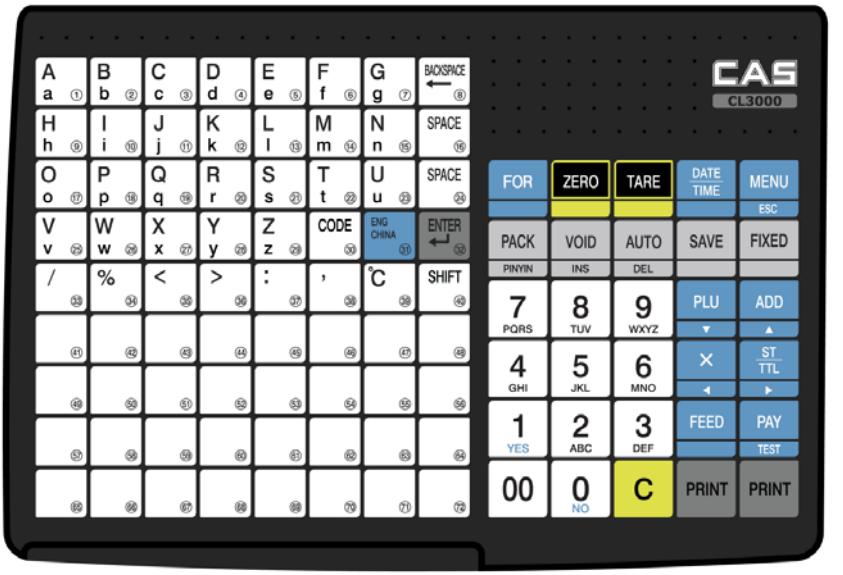
KEYBOARD

B – Type 40PLU (Standard)

B – Type 60PLU (Standard)



P – Type, R- Type (Pole type)



1.5 SYMBOLS

SYMBOLS	DESCRIPTION
ST (▼)	Stable weight indicator
▶0◀	Zero weight indicator
NET (▼)	Net weight indicator
AUTO	Auto Print Mode indicator
SAVE	Auto clearing status indicator
PREPACK	Prepack Mode indicator
DC (▼)	Discount status indicator
SHIFT (▼)	Speed key shift status indicator
TR	Data transmission status indicator

1.6 KEY FUNCTIONS

KEY	DESCRIPTION
0 NO ~ 9 WXYZ	Numeric keys. Used to enter pricing, qty, count, tare, etc. Used to enter chinese character in PINYIN mode.
00	Double zero key.
C	Clear key. Used to clear erroneous entries and error conditions.
ZERO	Re-Zero key. Use to remove small variations in the scale's zero.
TARE	Tare key. Use to manually enter and remove tare weights.
DATE TIME	Date & Time key. Toggles the display between time, date, scale number and department number.
MENU ESC	MENU key. This key toggles from program menu to sale mode. Escape key. It is used to exit in program mode.
FOR	For key. Use this key for by- count or by pcs pricing: 3 @ 3 FOR $1.00. It toggles between the QTY, PIECE, and PRICE fields.
AUTO DEL	AUTO key. Auto-print mode DELETE key. Used to delete text data in program mode.
PACK PINYIN	Pre-Pack key. Used to enter Pre-Packaging mode in which the scale Auto-prints for every transaction and prevents the auto clearing of data.
SAVE	Save key. Save mode prevents the auto clearing of any called-up data like tare weight, PLU pricing, etc.
FIXED	FIXED key. Set a fixed price.
VOID INS	Void key. To remove erroneous sales from ADD-Up Insert key : Insert mode for text typing in program mode.
PLU ▼	When you type a PLU number and press this key, it calls-up that PLU.
ADD ▲	ADD-Up key. This key when used in conjunction with ST/TTL key allows you print a customer-total label as well as individual transaction labels.

KEY	DESCRIPTION
	Multi-Label key. Use this key to print multiple sales of the same transaction.
	Subtotal / Total key. Used with the ADD key in order to print customer-totals.
	Feed key. Use this key to feed labels or paper through printer
	Pay key. Use this key to calculate change. Test key. Used to print test pattern
	Print key. Used to manually print transactions and also serves as an ENTER key.
	Shift Key. Used to SHIFT function in program Mode
	Alpha keys. Used to type text data.
	Backspace key. Used to backspace and delete text data.
	Space bar.
	Used to go to next line to enter text

Note: X key is only used in sale mode and ESC key is only used in program mode.

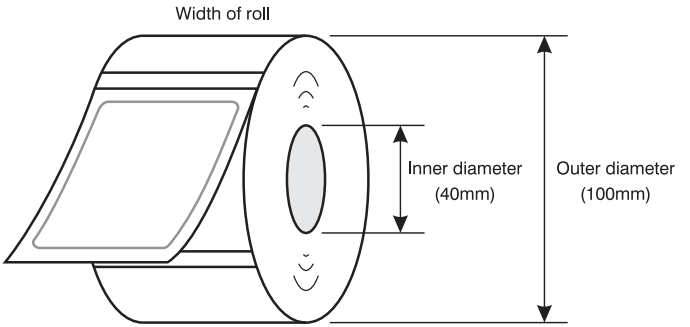
Sale mode : X key

Program mode : ESC key

1.7 Installation of the Label Roll

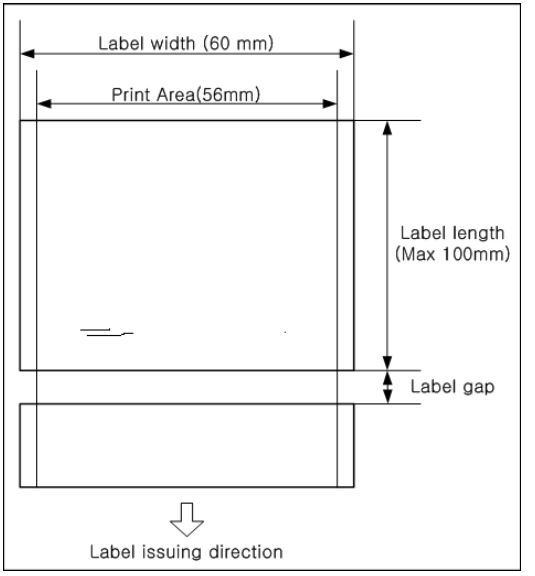
• Label Specifications

Outer diameter of roll : 100mm
Inner diameter of roll : 40mm
Width of receipt roll : 40, 50, 60mm
Width of label roll : 60mm(MAX)



• Print Area

Width of label : 60mm(MAX)
Length of label : 120mm(MAX)



To install the label roll at ANY time you must follow the directions in this section:

1) Press the **ON/OFF** key and make sure that the display is completely off. Open the printer's side-access panel. (See fig.1)

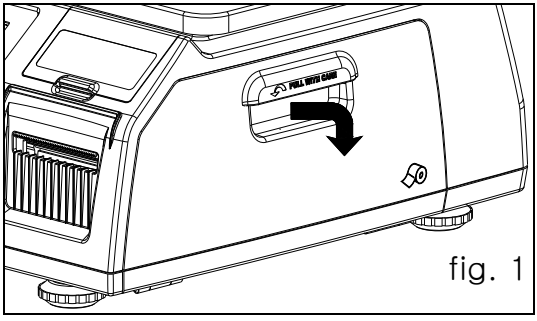


fig. 1

2) Lift up TPH lever as fig 2.

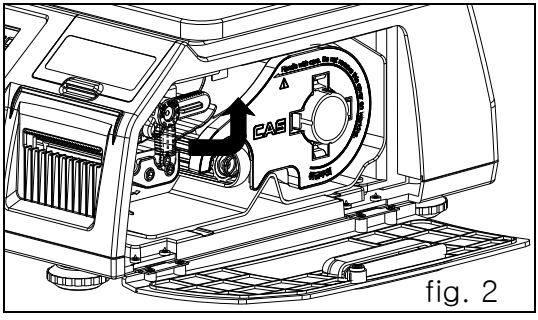


fig. 2

3) Remove cartridge as fig. 3.

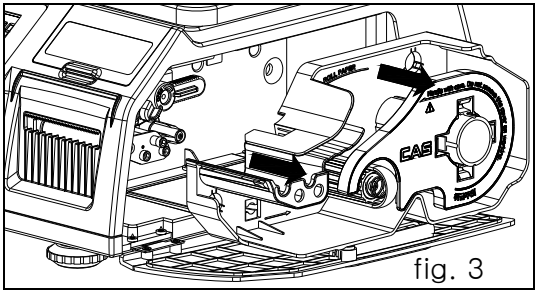


fig. 3

4) Remove Pick-Up Spool assembly and paper guide from the cartridge as fig. 4.

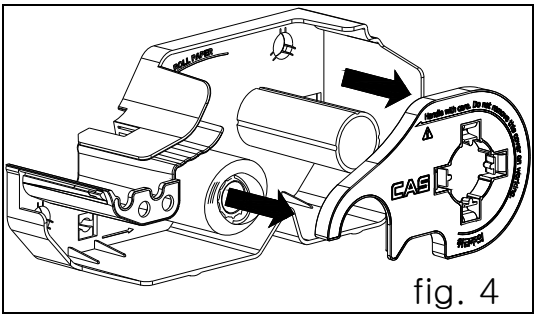


fig. 4

5) Place the label in the scale as fig. 5

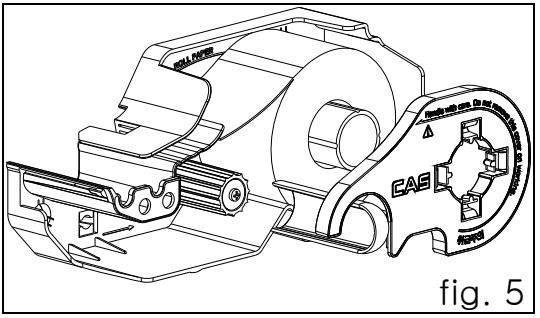


fig. 5

6) Press the FEED key.

*If label position is not correct, you have to check follows :

a, Label size.(Label setting menu)
b. Feed Adjustment .(Feed adjustment menu)
c. Sensor calibration(Sensor Calibration menu)

2. PROGRAMMING

Program Mode Menu Tree (Menu code : 1000)

CODE	Menu	CODE	Sub Menu	CODE	Sub Menu		
1100	PLU	1110	Change unit price				
		1120	New/Edit				
		1130	Discount	1131	New/Edit		
				1132	List		
				1133	Delete Discount	1137	Delete by PLU(DC)
						1138	Delete by Dept(DC)
						1139	Delete All(DC)
		1140	Management	1141	Copy		
				1142	Delete	1147	Delete by PLU No
						1148	Delete by Dept. No
						1149	Delete All
				1143	Move		
				1144	Select PLU Items		
				1145	PLU Sale Count		
		1150	List				
		1160	Speed Key				
		1170	Sample Printing				
1200	PLU Data Table I	1210	Department				
		1220	Group				
		1230	Tax Rate				
		1240	Sales Message				
		1250	Origin				
		1260	Barcode				
		1270	Tare				
		1280	Unit Symbol				
1300	PLU Data Table II	1310	Ingredient				
		1320	Nutrition Facts				
1400		1410	Store				
		1420	Customer				
		1430	Scroll Message	1431	Configuration		
				1432	Edit Scroll Message		
				1433	List Scroll Message		
		1440	Currency				
1500		1510	Label Format				
		1520	Barcode				
		1530	Discount	1531	Priority Setting		
				1532	Weight Discount		
				1533	Count Discount		
				1534	PCS Discount		
		1540	Tax	1541	Set Global Tax		
				1542	Global Tax No.		

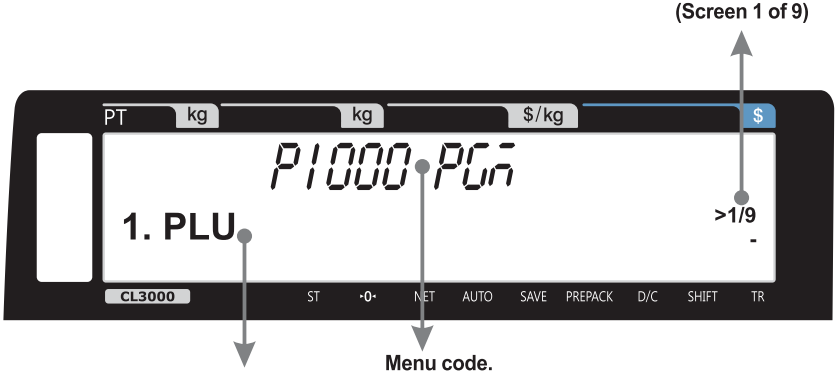
CODE	Menu	CODE	Sub Menu	CODE	Sub Menu
1600	Report	1610	X1 Report	1611	Scale
				1612	PLU
				1613	Misc. PLU
				1614	Group
				1615	Department
				1616	Hourly
				1617	Clerk
		1620	Z1 Report		
		1630	X2 Report	1631	Scale
				1632	PLU
				1633	Misc. PLU
				1634	Group
				1635	Department
				1636	Hourly
				1637	Clerk
				1638	Speed
		1640	Z2 Report		
		1650	Clear All		
1700	Scale Config	1710	Print Label Item		
		1720	Markdown		
		1730	Printer Hardware	1731	Print Mode
				1732	Label/Ticket Size
				1733	Sensor Calibration
				1734	Sensor & Motor
				1735	Print Intensity
				1736	Adjust Feed Length
				1737	Label Preprint
				1738	Printer Speed
		1740	Serial # Format		
		1750	Add-Up Total		
		1760	Ticket	1761	Select Ticket Item
				1762	Select List Item
1800	Scale Config	1810	Sale Mode		
		1820	Operation Mode		
		1830	Department		
		1840	Date/Time		
		1850	User/ Security Configuration	1851	New/Edit User
				1852	Change Password
				1853	List User
				1854	Delete User
				1855	Config Permission
				1856	Clerk Key

CODE	Menu	CODE	Sub Menu	CODE	Sub Menu
1800	Scale Config	1860	Test	1861	Display
				1862	A/D
				1863	Keyboard
				1864	Chess Printer
				1865	Printer Sensor
				1866	Memory Information
				1867	Firmware Version
		1870	Scale Parameter	1871	Display
				1872	Printing
				1873	Sale setup
				1874	Clerk Logout
		1880	Function Key Define		
1900	Communi cation	1910	Network Setting	1911	Service Type
				1912	DHCP
				1913	IP
				1914	Remote IP
				1915	RS232C
				1916	WLAN setting
				1917	WLAN Config
		1920	Application		
		1930	Scale Lock/Unlock		
		1940	Check Scale		
		1950	Backup to Scale		

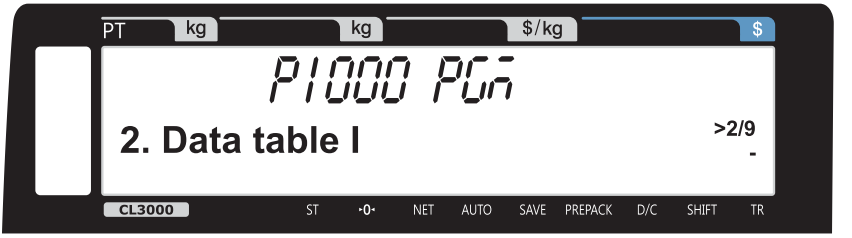
How to access PROGRAM MODE

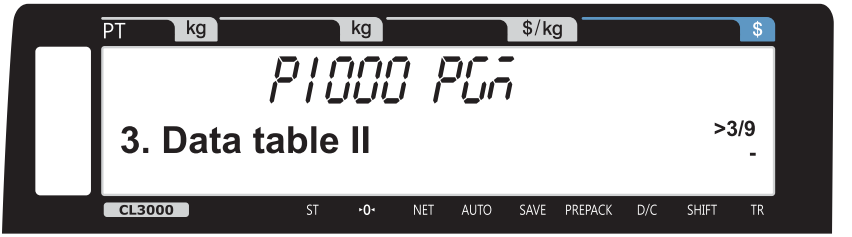
You can see the Program Menu screen by pressing MENU key.

The 2 numbers at top left (1/9) indicate the number of pages or screens. The number to the left of the slash is the current page or screen number and the number to the right of the slash indicates the total number of pages or screens. You can use the PG UP and PG DOWN keys to navigate from page to page, or you can use the Arrow keys to go through each page 1 line at a time.



If you press “PG DOWN” key, you can see other menu screens as below.





2.1 PLU Programming

You can set 32 items for a PLU as below table and if you do not want to use some items, you can prohibit those items in menu code:1144.

No	Item	Description
1	Department	Department No.
2	PLU No	PLU No.
3	PLU Type	Select PLU type among By Weight, By Count or By-PCS
4	Name 1	Enter name 1 of item. Maximum 40 characters.
5	Name 2	Enter name 2 of item. Maximum 40 characters.
6	Name 3	Enter name 3 of item. Maximum 40 characters.
7	Group No.	Select group number. This value can be from 0 to 99.
8	Ext.barcode	
9	Label No.	(0~99) (0=Do not use Label No.), Label Formats "1~12". If Global Setting is YES, it is not shown.
10	Aux. Label No.	(0~99) (0=Do not use Label No.), Label Formats "1~12". This function prints aux. label as saved number of label number
11	Origin No.	(0~500) 0=Do not use origin.
12	*Unit Weight	Unit weight of Price(No.19) (2:unit price for 100g, 1:unit price for 1kg)
13	*Fixed Weight	The weight is fixed regardless of item
14	Prefix	Enter serial code for PLU (Greece version of CL3000 series)
15	Item code	Item code
16	☆Pieces	(0-999) Set the number for By-PCS PLU
17	Special Price	It can be unit price by using special key.
18	Tax No.	Enter tax number. This value can be from 0 to9
19 20	*Tare / Tare No.	You can enter tare weight manually or enter No. of tare data.(By-weight PLU)
21	Barcode No.	This value can be from 0 to 99, If Global setting is YES, it is not shown.
22	Barcode2 No.	This value can be from 0 to 99
23	Picture No.	This value can be from 0 to 9

No	Item	Description
24	Produced Date	(0~999) This is subtracted to the current date in order to be calculated.
25	Packed Date	(0~999) This is added to the current date in order to be calculated.
26	Packed Time	(0~99) If you set it to 0, it is not printed
27	Sell Date	(0~9999) This is expirations date that is numbered in days and added to the Packed On date in order to be calculated. If you set it to 0, it is not printed
28	Sell Time	(0~99) If you set it to 0, it is not printed
29	Ingredients No.	(0~999) Enter ingredients
30	Safety No.	(0~99) Enter Safety No.
31	Nutri. Fact No.	(0~500) Enter nutrition fact ID
32	Sales Msg No.	(0~99) Enter sales message No.

* These items are shown on the display when you select By Weight PLU.
☆These items are shown on the display when you select By Count or By PCS PLU.

2.1.1 Create By-Weight PLU (Menu code 1120)

(NEW/Edit PLU : MENU → 1. PLU → 2. New/Edit)

◆ You can press the SAVE key at anytime to save the current PLU data and if you want to exit without saving, press the ESC key.

1. Enter Department No.

• Department should be set previously

M1120 PGM	01-32
Dept No. : [1]	Default

2. Enter PLU No.

EX) Department No. = [1] Default
PLU No. : [1]

1 YES PRINT 1 YES PRINT

M1120 PGM	02-32
PLU No. : [1]	No Safety

3. Select PLU Type

1. By Weight →
2. By Count →
3. By PCS →

EX) BY-Weight Item

M1120 PGM	03-32
PLU Type : [1]	By-Weight

By-Weight PLUs are priced as price-per-weight; for example, $3.99/lb or $1.99/kg.
You must weigh these PLUs before you can execute a sales transaction.
(#/△△ may be changed on Menu 1144).

4. Enter PLU Name 1

EX) “BEEF”

5. Enter PLU Name 2

EX) “Sirloin”

6. Enter PLU Name 3

EX) “STEAK”

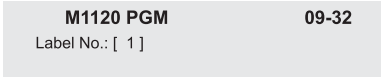
7. Select Group
• If there is no group for this PLU, enter 0.

EX) 1. Meat

8. Enter Ext.Barcode

9. Select Label Format
- If you enter “0”, standard label format (menu code 1510) is used.
- For details about label format, refer to 8. Setting Global option

EX) 1. IS6030-0000(60x30)



10. Select Origin

• If you do not want to use origin, enter “0”.

EX) 49. China

4 GHI | 9 WXYZ | PRINT

M1120 PGM	10-32
Origin No. : [49]	china

11. Select Unit Weight

EX) 1.1kg

1 YES | PRINT

M1120 PGM	12-32
Unit Weight : [1]	1kg

12. Enter Fixed Weight

The weight of an item is fixed.

• If you do not want to use, enter 0.

EX) Do not use Fixed Weight

0 NO | PRINT

M1120 PGM	13-32
FixedWeight : [0.000]	

13. Enter Prefix

• If you do not want to use, enter 0.

EX) Do not use Fixed Weight

1 YES | PRINT

M1120 PGM	14-32
Prefix : [1]	

14. Item Code

EX) Item Code = 1941

1 YES | 9 WXYZ | 4 GHI | 1 YES | PRINT

M1120 PGM	15-32
ItemCode : [1941]	

15. Price

EX) Price = $10.00

1 YES | 0 NO | 0 NO | 0 NO | PRINT

M1120 PGM	16-32
Price : [10.00]	

16. Special Price

EX) Price = $10.00

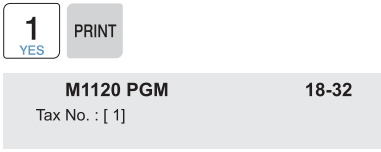
2 ABC | 0 NO | 0 NO | 0 NO | PRINT

M1120 PGM	17-32
Special Price : [20.00]	

17. Tax No.

- May be changed by setting Menu code 1541.
- If you do not want to use, enter “0” .

EX) Tax data 1



18. Tare

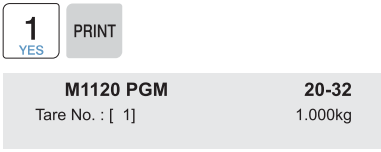
- You can use Tare Table, depending on the setting of Parameter 584

EX) Tare Value = 100g

19. Tare No.

- If you do not want to use, enter 0

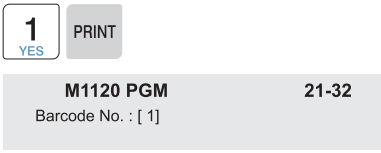
EX) Tare No. = 1



20. Barcode No.

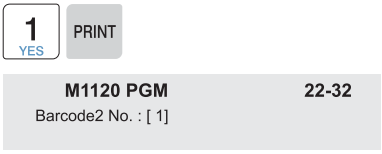
- You can use barcode ID depending on the setting of Menu code 1520

EX) Barcode Data Table 1



21. Barcode2 No.

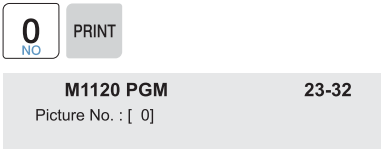
EX) EX) Barcode Data Table 1



22. Picture No.

- If you do not want to use, enter “0”

EX) Do not use Picture No.



23. Produced Date

M1120 PGM **24-32**
Produced Date : [1]

24. Packed Date

M1120 PGM **25-32**
Packed Date : [1]

25. Packed Time

M1120 PGM **26-32**
Packed Time : [1]

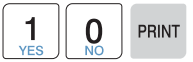
26. Sell By Date
- This value can be from 0 to 9999.
- If you do not want to use, enter “0”

EX) 2

M1120 PGM **27-32**
Sell Date : [2]

27. Sell By Time
- This value can be from 0 to 99.
- If you do not want to use, enter “0”

EX) 10



M1120 PGM **28-32**
Sell Time : [10]

28. Ingredient No.
- If you do not want to use, enter “0”

EX) Do not use ingredient

M1120 PGM **29-32**
Ingredient No. : [0]

29. Safety No.
• If you do not want to use, enter “0”

1 YES PRINT

M1120 PGM	30-32
Safety No. : [1]	

30. Nutri. Fact No.
• If you do not want to use, enter “0”

1 YES PRINT

M1120 PGM	31-32
Nutri.Fact No. : [1]	

31. Sales Msg No.
• If you do not want to use, enter “0”

EX) Sales Message 1

1 YES PRINT

M1120 PGM	32-32
Sales Msg No. : [0]	Thank You

2.1.2 Create By-Count PLU (Menu code 1120)

(MENU → 1. PLU → 2. New/Edit)

◆ You can press the SAVE key at anytime to save the current PLU data and if you want to exit without saving, press the ESC key.

1. Enter Department No.
• Department should be set previously

EX) Department # = 1. Default

1 YES PRINT

M1120 PGM	01-32
Dept No. : [1]	Default

2. Enter PLU No.

EX) PLU # = 2

2 ABC PRINT

M1120 PGM	02-32
PLU No. : [2]	No Data or Param

3. Select PLU Type

1. By Weight →
2. By Count →
3. By PCS →

EX) BY-Count Item

4. Enter PLU Name 1

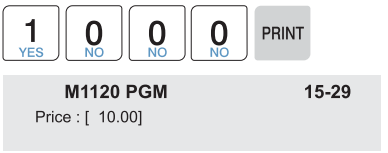
EX) "PEAR"

5. Qty Unit No.

EX) Qty Unit No. 6

6. Price

EX) Price = $10.00



2.1.3 Create By-PCS PLU (Menu code 1120)

(MENU → 1. PLU → 2. New/Edit)

※ By-PCS PLU is used depending on the Para 593.

◆ You can press the SAVE key at anytime to save the current PLU data and if you want to exit without saving, press the ESC key.

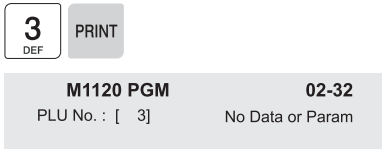
1. Enter Department No. / PLU No.

• Department should be set previously

EX) Department # = 1. Default

2.Enter PLU No.

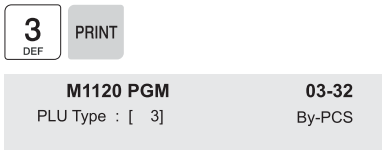
EX) PLU # =3



3. Select PLU Type

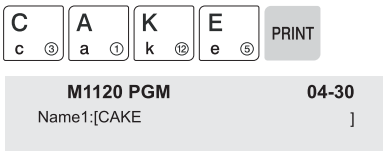
1. By Weight →
2. By Count →
3. By PCS →

EX) BY-PCS Item



4. Enter PLU Name1

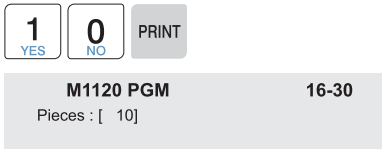
EX) "CAKE"



5. Pieces

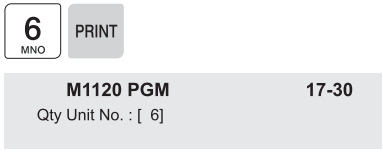
• If you enter "0", it is regarded as 1.

EX) 10 piece



6. Qty Unit No.

EX) Qty Unit No. 6



2.1.4 Editing PLU (Menu code 1120)

(MENU → 1. PLU → 2. New/Edit)

◆ You can edit PLU as PLU creating and you can press the SAVE key at anytime to save the current PLU data and if you want to exit without saving, press the ESC key.

2.1.5 Sample Printing (Menu code 1170)

(MENU → 1. PLU → 7. Sample Printing)

• If you press SAVE key during PLU creating or editing, label is printed.

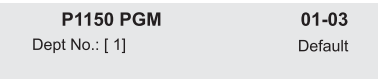
2.1.6 Listing PLU (Menu code 1150)

(MENU → 1. PLU → 5. List)

1. Enter Department No.

• Enter department number that you wish to see

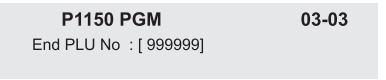
EX) Department No. 1



2. Enter PLU Range

EX) PLU 1~999999

• If you want to print PLU list, press the TEST key.



2.1.7 Copying PLU (Menu code 1141)

(MENU → 1. PLU→ 4. Management → 1. Copy)

• If there is a similar PLU, you can copy it.

1. Select Source Department No.

• Enter the Department No. that you wish to copy

EX) Source Department # = 1

2. Select Source PLU No.

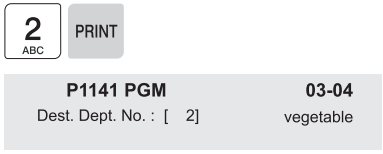
• Enter the PLU No. that you wish to copy

EX) Source PLU # =1

3. Select Destination Department No.

• Enter the Department number where the new PLU(s) will be located

EX) Destination Department #=2



4. Select Destination PLU No.

• Enter the PLU number that you wish to copy the Source PLU into

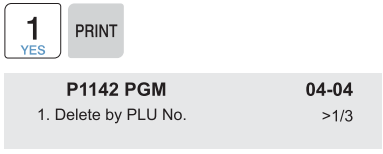
EX) Destination PLU # =1

2.1.8 Deleting PLU (Menu code 1142)

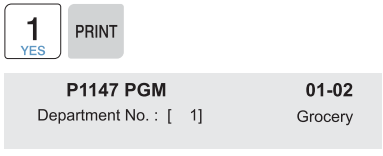
(MENU → 1. PLU → 4. Management → 2. Delete)

• There are three ways to delete PLU. Simply enter the number that youwish to delete.

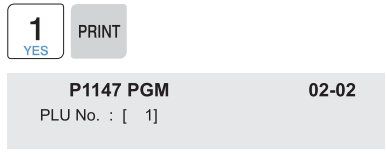
EX) Press 1 key to select Delete by PLU No.



EX) Department No. : 1



EX) PLU No. :1



2.1.9 Moving PLU (Menu code 1143)

(MENU → 1. PLU→ 4. Management → 3. Move)

• You can move PLU. If there is discount information, it is also moved.

1. Select Source

• Enter the Department No. and PLU No. which you wish to move

EX) Source Department # = 1
Source PLU # =1

1 YES PRINT

P1143 PGM	01-04
Source Dept. No. : [1]	Grocery

1 YES PRINT

P1143 PGM	02-04
Source PLU No. : [1]	Potato

2. Select Destination

• Enter the Department number where the PLU(s) will be located

• Enter the PLU number that you wish to move the Source PLU into

2 ABC PRINT

P1143 PGM	03-04
Dest. Dept. No. : [2]	vegetable

1 YES PRINT

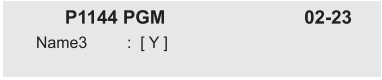
P1143 PGM	04-04
Dest. PLU No. : [1]	No Data

2.1.10 Selecting PLU Items (Menu code 1144)

(MENU → 1. PLU → 4. Management → 4. Select PLU items

• If you enter Y, you cannot use that item when you create PLU.

• To enter Y, press Y key or 1 key.
• To enter N, press N key or 0 key.



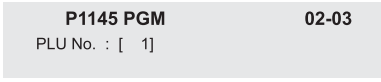
Note: You can use the “PG UP” and “PG DOWN” keys to navigate from page to page, or you can use the Arrow keys to go through each page 1 line at a time.

2.1.11 PLU Sale Count (Menu code 1145)

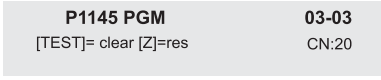
(MENU → 1. PLU→ 4. Management → 5. PLU Sale Count

You can count each PLU sale and also you can clear this count.

• This sale count is used for serial number printing of PLU



• To clear PLU sale count, press the TEST key



2.2 Programming PLU Data Table I

2.2.1 Department (Menu code 1210)

(MENU → 2. PLU Data Table I → 1. Department)

If a scale is assigned to department 1 then all of the PLUs that you select on that scale will be from department 1. You can assign the department by pressing MENU, 8 and 3 keys. If you want to change the department assignment of the scale, you have to change the setting. You also have to set Speed key for this department.

2.2.2 New/Edit Department (Menu code 1211)

(MENU → 2. PLU Data Table I → 1. Department → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

1. Department Number

• Department number is available 1 to 99.

EX) Department No. = 2

2. Department Description

EX) Department Decription = GROCERY

3. Speed Key Setting

• Refer to 2.6.1 Speed Key

EX) Speed key set no. = 1

2.2.3 List Department (Menu code 1212)

(MENU → 2. PLU Data Table I → 1. Department → 2. List)

1. Set the department range that you wish to see.

EX) Department 1 to 99

• If you want to print list, press the TEST key.

```
P1212 PGM                01-02
1St Number: [     1]
```

```
P1212 PGM                02-02
2nd Number  : [    99]
```

```
P1212 PGM                02-02
1   1   Default
```

2.2.4 Delete Department (Menu code 1213)

(MENU → 2. PLU Data Table I → 1. Department → 2. Delete)

1. Enter Department number

EX) Delete department 2

```
P1213 PGM                01-01
Dept No. : [ 2]          GROCERY
```

2.2.5 Group (Menu code 1220)

(MENU → 2. PLU Data Table I → 2. Group)

This menu is to group any PLU(s) regardless the PLU's "department". Any individual PLU must be involved in any department, but not in any group. User may select any PLUs as a group at users' needs. Especially, grouping PLU(s) can be used to get total sum for a specific.

2.2.6 New/Edit Group (Menu code 1221)

(MENU → 2. PLU Data Table I → 1. Group → 1. New/Edit)

You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

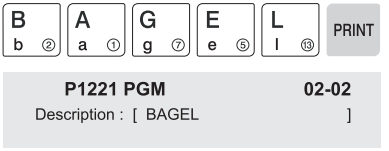
1. Enter Group Number

• Group number is available 1 to 99.

EX) Group No = 1

2. Enter Group Description

EX) Group Description = BAGEL



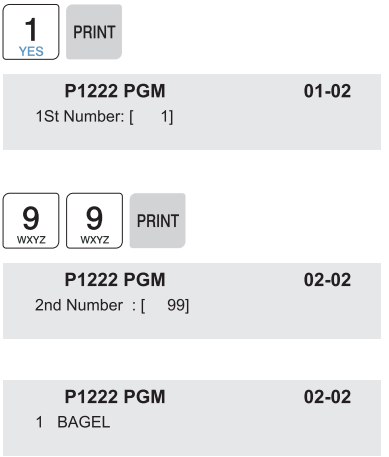
2.2.7 List Group (Menu code 1222)

(MENU → 2. PLU Data Table I → 2. Group → 2. List)

1. Set the group range that you wish to see

EX) 1~99

• If you want to print list, press the TEST key.



2.2.8 Delete Group (Menu code 1223)

(MENU → 2. PLU Data Table I → 2. Group → 3. Delete)

1. Enter group number

EX) Delete group 1.

2.2.9 Tax Rate (Menu code 1230)

(MENU → 2. PLU Data Table I → 3. TAX Rate)

You can use tax number when you create PLU.

2.2.10 New/Edit Tax Rate (Menu code 1231)

(MENU → 2. PLU Data Table I → 3. TAX Rate → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

1. Enter tax number

• TAX number is available 1 to 9

EX) TAX No. = 1

2. Set Tax Type

• See Tax Type table as below.

EX) Internal TAX Type

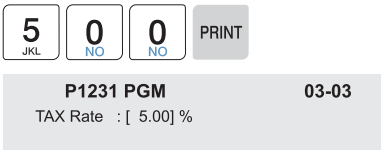
Tax Type

Item	Symbol	Description
Internal TAX	0	Tax is included in total price
External TAX	1	Tax is added on total price

※ Refer to menu code 1873(T.price = price + Tax) on chapter 2.14.21

3. Enter Tax Rate

EX) Tax Rate = 5.00%



4. Exit Menu

• If you want to exit, press “ESC” key.

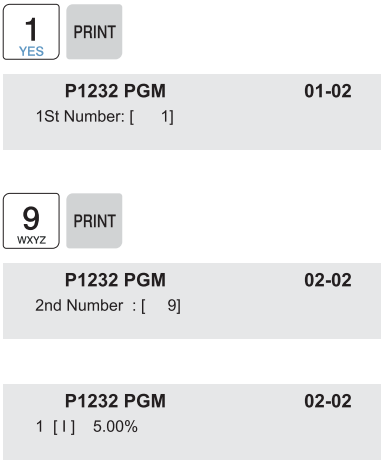
2.2.11 List Tax Rate (Menu code 1232)

(MENU → 2. PLU Data Table I → 3. TAX Rate → 2. List)

3. Set the range of tax rate

EX) 1~9

• If you want to print list, press the TEST key.

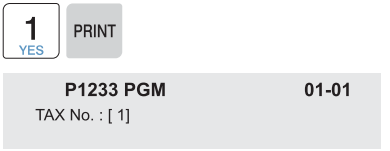


2.2.12 Delete Tax Rate (Menu code 1233)

(MENU → 2. PLU Data Table I → 3. TAX Rate → 3. Delete)

1. Enter tax number

EX) Delete tax number 1



2.2.13 Sales Message (Menu code 1240)

(MENU → 2. PLU Data Table I → 4. Sales Message)

Sales message can be printed on PLU labels so long as the format that you use contains a Sales Message field. This is a great tool for advertising and cross-marketing products.

2.2.14 New/Edit Sales Message (Menu code 1241)

(MENU → 2. PLU Data Table I → 4. Sales Message → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

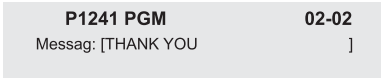
1. Enter Message Number

• Message number is available 1 to 99

EX) Message No. = 1

2. Enter Message

EX) Message = THANK YOU



3. Exit Menu

• If you want to exit, press “ESC” key.

2.2.15 List Sales Message (Menu code 1242)

(MENU → 2. PLU Data Table I → 4. Sales Message → 2. List)

1. Set the List Range

• Set the range of sales message that you wish to check

EX) 1~99

• If you want to print list, press the TEST key.

```
P1242 PGM                    02-02
2nd Number  : [    99]
```

```
P1242 PGM                    02-02
1   THANK YOU
```

2.2.16 Delete Sales Message (Menu code 1243)

(MENU → 2. PLU Data Table I → 4. Sales Message → 3. Delete)

1. Enter Message No.

EX) Delete message 1.

```
P1243 PGM                    01-01
Sales Msg No. : [ 1]
```

2.2.17 Origin (Menu code 1250)

(MENU → 2. PLU Data Table I → 5. Origin)

You can use origin number when you create PLU.

How to print origin on a label

1. The format that you use contains Origin field
2. Set MENU → 8. scale config → 6. parameter → 2. printing oper(print origin for comm.Line)

2.2.18 New/Edit Origin (Menu code 1251)

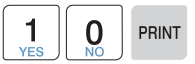
(MENU → 2. PLU Data Table I → 5. Origin → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

1. Enter Origin No.

• Origin number is available 1 to 500

EX) Origin No = 10




```
P1251 PGM                    01-02
Origin No. [ 10]
```

2. Enter Origin

EX) Origin = KOREA

3. Exit Menu

• If you want to exit, press “ESC” key.

2.2.19 List Origin (Menu code 1252)

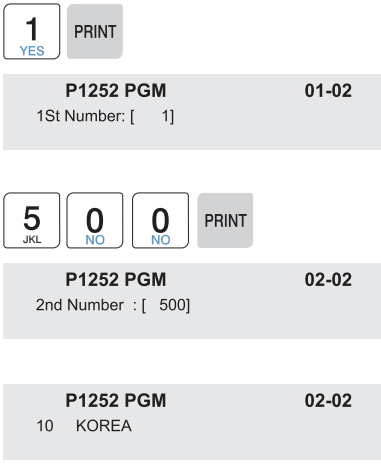
(MENU → 2. PLU Data Table I → 5. Origin → 2. List)

1. Set the List Range

• Set the range of origin that you wish to check

EX) 1~500

• If you want to print list, press the TEST key.

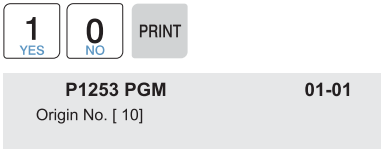


2.2.20 Delete Origin (Menu code 1253)

(MENU → 2. PLU Data Table I → 5. Origin → 3. Delete)

1. Enter Origin No.

EX) Delete Origin 10.



2.2.21 Barcode (Menu code 1260)

(MENU → 2. PLU Data Table I → 6. Barcode)

You can use barcode when you create PLU.
Barcode can be changed depending on the Global setting of barcode.

2.2.22 New/Edit Barcode (Menu code 1261)

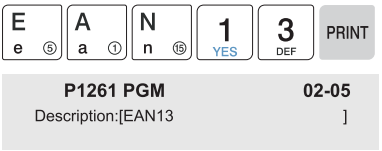
(MENU → 2. PLU Data Table I → 6. Barcode → 1. New/Edit)

1. Enter Barcode No.
- This value can be from 1 to 99.

EX) Barcode No = 1

2. Barcode Description

EX) Barcode Description = EAN13



3. Barcode Type
- See below table.

EX) Barcode Type = 1. EAN

▶ Type of Barcode

No.	Type	Description
1	EAN-13	13digit
2	EAN13A5	13digit + 5digit
3	EAN-8	8 digit
4	I20F5	2~24 digit
5	UPCA	12 digit
6	UPC-13	13 digit
7	CODE39	Alphanumeric character, Format 'T', prints out the name of PLU.
8	CODE93	
9	CODE128	
10	CODABAR	

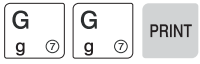
4. Enter Barcode Form

You can select from a list of Barcode types or you can create your own custom format

• Refer to below table.

P1261 PGM **04-05**
Form (0~4) : [1]

EX) Barcode Form = 1.
Change DDIIIIIPPPPPC to GGIIIIIVPPPPC



P1261 PGM **05-05**
[GGIIIIIPPPPPC]

▶ The following defines the format characters for Barcode Formats : (Example 'EAN13')

Form No.	Format
0	User Defined Barcode
1	DDIIIIIPPPPPC
2	DDIIIIPPPPPPC
3	DIIIIIPPPPPPC
4	DIIIIIIPPPPPC

▶ The following defines the format characters for Barcode Formats: (Example)

No.	Symbol	Description
1	I	item code
2	N	PLU number
3	P	price
4	V	price check digit (It is created automatically)
5	U	unit price
6	W	weight
7	Q	quantity
8	D	department
9	G	group
10	K	country code (For future)
11	A	ticket counter (Only for ticket)
12	B	scale transaction counter
13	C	total barcode check sum (It is created automatically)
14	F	PLU prefix character
15	T	text character
16	R	transaction counter for each PLU
17	L	clerk number
18	X	traceability number
19	Y	slaughter house number
20	Z	cutting hall number
21	E	born in country number
22	H	bred in country number
23	M	bar string
24	%	%: print next fixed character*
25	0~9	numbers

※%: It is used to enter characters therefore you cannot use this to enter numbers.

5. Exit Menu

• If you want to exit, press “ESC” key.

2.2.23 List Barcode (Menu code 1262)

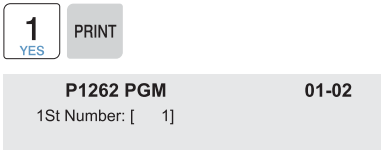
(MENU → 2. PLU Data Table I → 6. Barcode → 1. List)

1. Set the list range

- Set the range of barcode that you wish to check

EX) 1~10

• If you want to print list, press the TEST key.

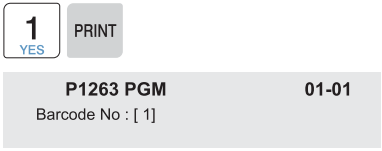


2.2.24 Delete Barcode (Menu code 1263)

(MENU → 2. PLU Data Table I → 6. Barcode → 3. Delete)

1. Enter barcode number to delete

EX) Delete barcode 1.



2.2.25 Tare (Menu code 1270)

(MENU → 2. PLU Data Table I → 7. Tare)

If Parameter 584 option (Use Tare No.) is “Yes” you can use this tare number which is set here when you create PLU, If it is set to “No” you have to program tare weight again.

2.2.26 New/Edit Tare (Menu code 1271)

(MENU → 2. PLU Data Table I → 7. Tare → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

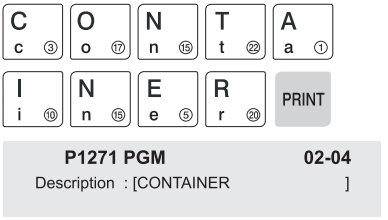
1. Enter Tare No.

• This value can be from 1 to 99.

EX) Tare No. = 1

2. Tare Description

EX) Tare Description = Container



3. Tare Type

• There are 2 types as below table

EX) Tare Type = 1, Numeric Tare

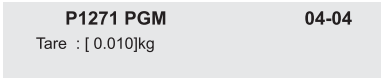
If you set Tare Type to “2”, put a container on the platter and press the PRINT key after 2~3 seconds.

▶ Type of Tare

Tare No.	Type of Tare	Description
1	Numeric Tare	Enter tare weight by using numeric keys.
2	Weight Tare	Put a container on the platter

4. Enter Tare Value

EX) Tare = 0.010 kg



5. Exit Menu

• If you want to exit, press “ESC” key.

※ If you set Tare No. to 1 when you create PLU, tare is set to 0.010kg that is programmed here.

2.2.27 List Tare (Menu code 1272)

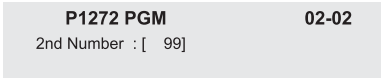
(MENU → 2. PLU Data Table I → 7. Tare → 2. List)

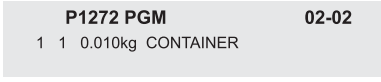
1. Set the list range

• Set the range of barcode that you wish to check

EX) 1~10

• If you want to print list, press the TEST key.



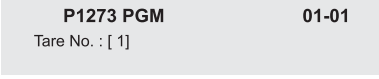


2.2.28 Delete Tare (Menu code 1273)

(MENU → 2. PLU Data Table I → 7. Tare → 3. Delete)

1. Enter tare number to delete

EX) Delete tare no. 1



2.2.29 Tare Key (Menu code 1274)

(MENU → 2. PLU Data Table I → 7. Tare→ 4. Tare Key)

You can assign Tare Key. There are 9 Tare keys and you have to set these keys in menu 1880 (Key define). See Chapter 2.14.22

1. Enter tare Key

EX) Tare Key = 1

2. Enter tare number

EX) Tare No = 1

2.2.30 Unit Symbol (Menu code 1280)

(MENU → 2. PLU Data Table I → 8. Unit Symbol)

You can program the unit symbol to print label.

2.2.31 New/Edit Unit Symbol (Menu code 1281)

(MENU → 2. PLU Data Table I → 8. Unit Symbol → 1. New/Edit)

※ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

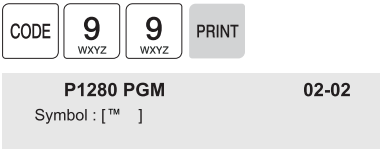
1. Enter unit number

- This value can be from 1 to 8.

EX) Qty Unit No. = 1

2. Enter unit symbol

EX) Symbol = ™



※ If you want to enter special symbol, press the CHAR key and enter the code value. (See ASCII code table on chapter 4.4)

3. Exit Menu

• If you want to exit, press “ESC” key.

2.2.32 List Unit Symbol (Menu code 1282)

(MENU → 2. PLU Data Table I → 8. Unit Symbol → 2. List)

1. Set the list range

EX) 1~8

• If you want to print list, press the TEST key.

2.2.33 Delete Unit Symbol (Menu code 1283)

(MENU → 2. PLU Data Table I → 8. Unit Symbol → 3. Delete)

1. Enter unit symbol number to delete

EX) Delete unit symbol 1.

2.3 Programming PLU Data Table II

2.3.1 Ingredient (Menu code 1310)

(MENU → 3. PLU Data Table II → 1. Ingredient)

2.3.2 New/Edit Ingredient (Menu code 1311)

(MENU → 3. PLU Data Table II → 1. Ingredient → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

1. Enter ingredient number.

• This value can be from 1 to 1999.

EX) Ingredient number = 1

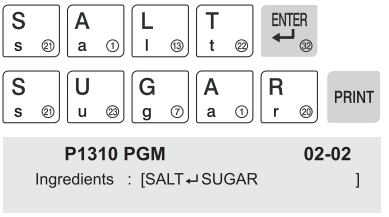
2. Enter ingredient

EX) Ingredient Line1 = SALT
Ingredient Line 2 = SUGAR

• To print “SUGAR” on next line, enter “ ↵” after “SALT” .

• The number of right side of "[ ]" is digit and total number of character.

• Pressing "PAGE UP/DN" key turns to next or previous page.



3. Exit Menu

• If you want to exit, press “ESC” key.

2.3.3 List Ingredient (Menu code 1312)

(MENU → 3. PLU Data Table II → 1. Ingredient → 2. List)

1. Set the list range

EX) 1~1999

• If you want to print list, press the TEST key.

2.3.4 Delete Ingredient (Menu code 1313)

(MENU → 3. PLU Data Table II → 1. Ingredient → 3. Delete)

1. Enter ingredient number to delete

EX) Delete ingredient no. 1

2.3.5 Nutrition Facts (Menu code 1320)

(MENU → 3. PLU Data Table II → 2. Nutrition Facts)

◆ You can program nutrition facts for your needs and you can use this when you create PLU. Nutrition facts is printed small or large size depending on the label format.

▶ Nutrition Facts table

Nutrition Facts	Description
Calories	
Calories From Fat	
Total Fat	G
Saturated Fat	G
Cholesterol	mg
Sodium	mg
Total Carbohydrates	G
Dietary Fibers	G
Sugars	G
Protein	G
Vitamin A	%
Calcium	%
Vitamin C	%
Iron	%
Etc	

2.3.6 New/Edit Nutrition Facts (Menu code 1321)

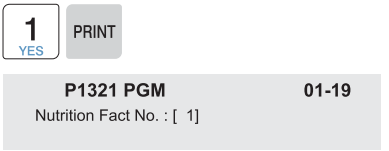
(MENU → 3. PLU Data Table II → 2. Nutrition Facts → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.
You can use the PG UP and PG DOWN keys to navigate from page to page, or you can use the Arrow keys to go through each page 1 line at a time..

1. Nutrition Fact No

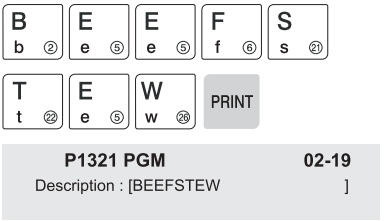
• This value can be from 1 to 500.

EX) Nutrition fact no = 1



2. Enter description

EX) BEEF STEW



3. Enter Serving Size

EX) Sering size = 1CUP

```
P1321 PGM                    03-19
Serving Size  : [1CUP              ]
```

4. Serving Per Container

EX) Sering Per Container = 2

```
P1321 PGM                    04-19
Serving Per Con : [2       ]
```

5. Calories

EX) Calories = 230

```
P1321 PGM                    05-19
Calories          : [   230 ]
```

6. Calories from fat

EX) Calories From Fat= 120

```
P1321 PGM                    06-19
Calories From Fat: [   120 ]
```

7. Toral Fat

EX) Total fat = 14 g

```
P1321 PGM                    07-19
Total Fat (g)    : [      14 ] g
```

8. Saturated fat

EX) Saturated fat = 7 g

```
P1321 PGM                    08-19
Saturated Fat    : [      7 ]
```

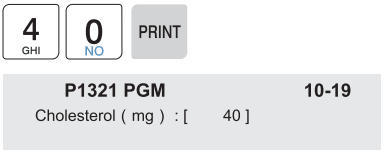
9. Trans fat

EX) Trans fat = 2

```
P1321 PGM                    09-19
Trans Fat (g)    : [      2 ]
```

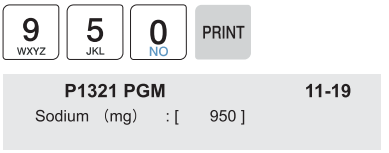
10. Cholesterol

EX) Cholesterol = 40 mg



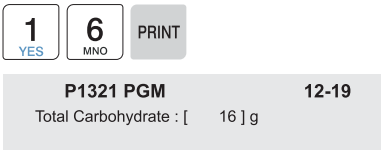
11. Sodium

EX) Sodium = 950 mg



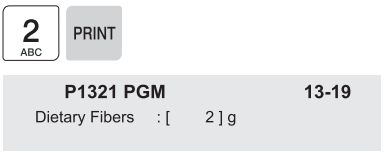
12. Total Carbohydrate

EX) Total Carbohydrate = 16 g



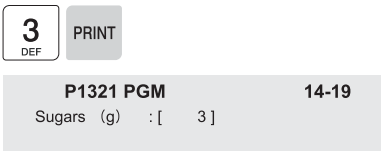
13. Dietary Fibers

EX) Dietary Fiber = 2 g



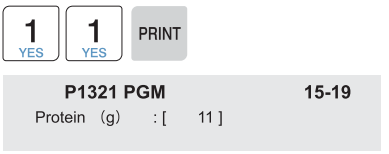
14. Sugars

EX) Sugars = 3 g



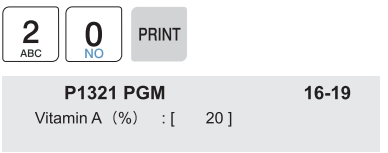
15. Protein

EX) Protein = 11 g



16. Vitamin A

EX) Vitamin A = 20%

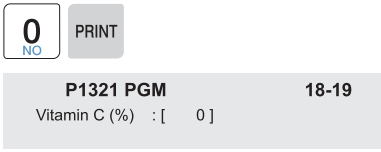


17. Calcium

EX) Calcium = 2%

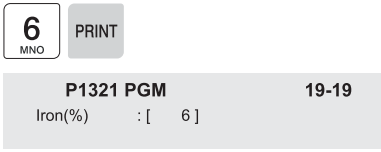
18. Vitamin C

EX) Vitamin C = 0 %



19. Iron

EX) Iron = 6 %



20. Exit Menu

• If you want to exit, press “ESC” key.

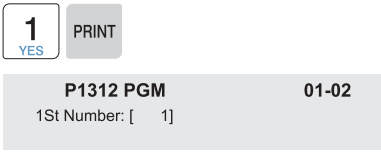
2.3.7 List Nutrition Facts (Menu code 1322)

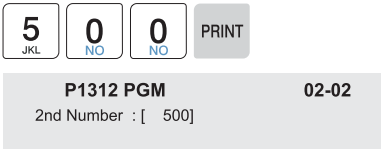
(MENU → 3. PLU Data Table II → 2. Nutrition Facts → 2. List)

1. Set the list range

EX) 1~500

• If you want to print list, press the TEST key.





2.3.8 Delete Nutrition Facts (Menu code 1323)

(MENU → 3. PLU Data Table II → 2. Nutrition Facts → 3. Delete)

1. Enter nutrition fact number to delete.

EX) Delete nutrition facts no.1

2.4 Discount Programming

2.4.1 Discount (Menu code 1130)

(MENU → 1. PLU → 3. Discount)

You have to set discount information for each PLU.

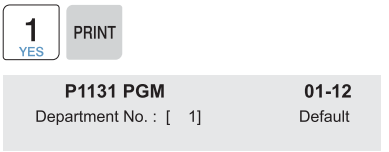
2.4.2 New/Edit Discount (Menu code 1131)

(MENU → 1. PLU → 3. Discount → 1. New/Edit)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.
You can use the PG UP and PG DOWN keys to navigate from page to page, or you can use the Arrow keys to go through each page 1 line at a time.

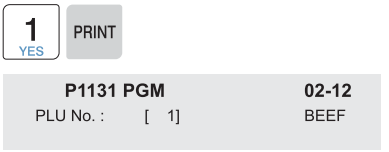
1. Enter department number

EX) Department No = 1



2. Enter PLU number.

EX) PLU No = 1



3. Enter discount type

• Refer to Discount Type table as below

※ Discount information can be different depending on the discount type.

EX) 1. Unit Price Discount

▶ Discount Type

#	Type	Description
1	Unit Price Discount	- By Weight PLU: Set the discount amount on unit price, depending on weight. - By Count/PCS PLU: Set the discount amount on unit price, depending on number of items.
2	% Unit Price Discount	- By Weight PLU: set discount % of unit price, depending on weight. - By Count/PCS PLU: set discount % of unit price, depending on number of items.
3	Total Price Discount	- Set discount amount for total price.
4	% Total Price Discount	- Set discount % of total price.
5	Fixed Price	- Set a fixed amount for discount.
6	Free Item	- Set free of charge item.
7	Free Addition	- By Weight PLU: Set discount weight. - By Count/PCS PLU: Set discount number
8	Total Price by total price	- Set a discount amount of total price for current total price.
9	% Total Price by Total Price	- Set a discount % of total price for current total price
10	Unit Price by Total Price	- Set a discount amount of unit price for current total price
11	Extra by Total Price	- Set a discount number of item for current total price

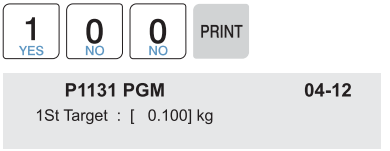
※ Please refer to "para 572" when user wants to also see the unit price discounted on "Unit Price" segment together with total price discounted in display

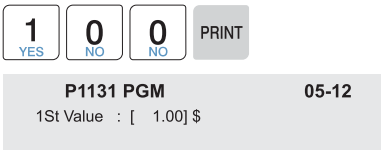
4. Enter discount value

• Refer to bleow table.

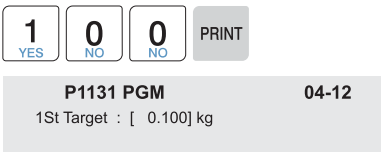
※ Target unit is different depending on the PLU type. This is By Weight PLU therefore this unit is weight. In case of By count PLU or By PCS PLU, unit is count.

EX) 1st Target : 0.100 kg
1 st Value : 1.00 $





2nd Target: 0.500 kg
2 nd Value : 2.00 $



No.	Type	Description
1	First Target Weight	Set the first weight limit for discount and apply discount for more than limit weight.
2	First Value Price	Set the discount amount of unit price for the first weight limit.
3	Second Target Weight	Set the second weight limit for discount and apply discount for more than limit weight.
4	Second Value Price	Set the discount amount of unit price for the second weight limit.

5. Discount Condition 1 :
(Set the day of week)

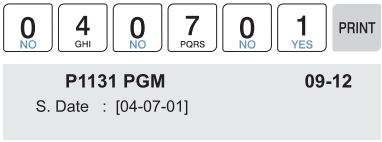
1→ Discount
0→ Do not discount

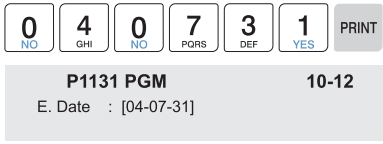
EX) Discount on Thursday, Friday and Saturday

6. Discount Condition 2 :
(Set date and time)

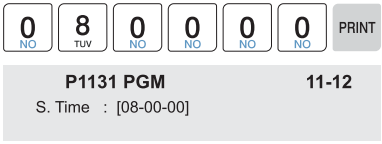
※ If you set date and time to 0,
it means discount all the time

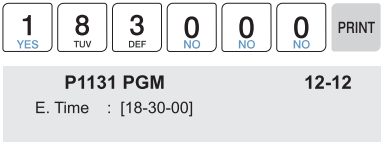
EX) Start Date : 04-07-01
End Date : 04-07-31





Start Time : 8 am
End Time : 6:30pm





20. Exit Menu

• If you want to exit, press “ESC” key.

2.4.3 List Discount (Menu code 1132)

(MENU → 1. PLU → 3. Discount→ 2. List)

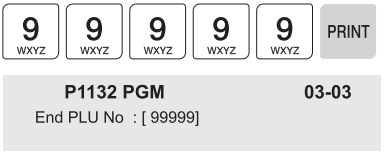
1. Enter department number to check

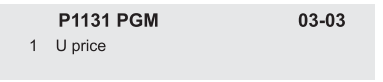
EX) Department No 1.

2. Enter PLU range to check

EX) PLU 1~99999

• If you want to print list, press the TEST key.





2.4.4 Delete Discount (Menu code 1133)

(MENU → 1. PLU → 3. Discount → 3. Delete)

◆ There are three ways to delete Discount. Simply enter the number that you wish to delete.

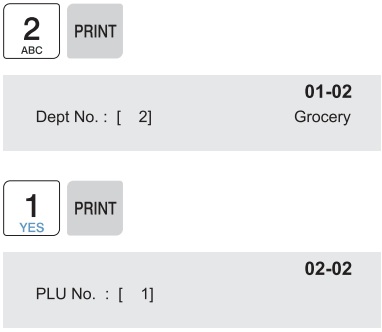
2.4.5 Delete by PLU No. (DC) (Menu code 1137)

(MENU → 1. PLU → 3. Discount → 3. Delete → 1. Delete by PLU no.(DC))

EX) Department No 1.

1. Enter the department number and PLU number to delete

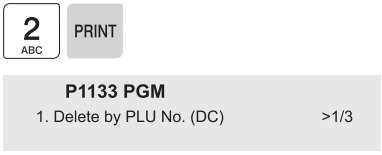
EX) Department number = 2
PLU number =1



2.4.6 Delete by Dept. No. (DC) (Menu code 1138)

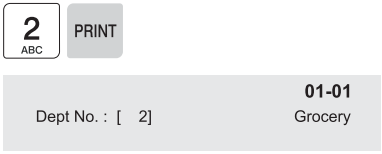
(MENU → 1. PLU → 3. Discount → 3. Delete → 2. Delete by Dept. No (DC))

EX) Press 2 key to select Delete by Dept. No.(DC)



1. Enter the department number to delete

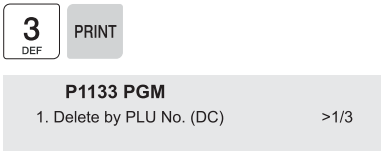
EX) Department number = 2



2.4.7 Delete ALL (DC) (Menu code 1139)

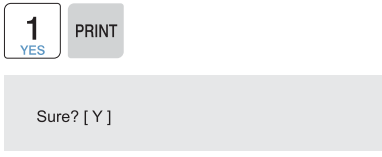
(MENU → 1. PLU → 3. Discount → 3. Delete → 3. Delete ALL(DC))

EX) Press 3 key to select Delete all(DC)



1. Enter the department number and PLU number to delete

EX) Press 1 key to select Delete all (DC)



2.5 Global Discount Programming

2.5.1 Global Discount (Menu code 1530)

(MENU → 5. Global Setting → 3. Discount)

You can apply same discount regardless of PLU.

2.5.2 Priority Setting (Menu code 1531)

(MENU → 5. Global → 3. Discount → 1. Priority)

You can set discount type. Refer to Discount Priority Setting Table as below.
You can see discount information on the display by setting of menu 1871 and also you can check it on a label. (See chapter 2.14.21)

▶ Discount Priority Setting

No	Type	Description
0	No Discount	No discount applied
1	PLU Discount	PLU discount only applied
2	Global Discount	Global discount only applied
3	No Discount in PLU then Global	PLU discount is applied. If there is no PLU discount, apply global discount

2.5.3 Weight/Count/PCS Discount (Menu code 1532/1533/1534)

(MENU → 5. Global → 3. Discount → 1. Priority)

If you want to apply same discount regardless of PLU, you can set discount information in menu code, 1532, 1533 and 1544. Refer to Discount Programming on chapter 2.4.2

Global Discount condition by weight Item (Menu code 1532)

(MENU → 5. Global Setting → 3. Discount → 2. Weight discount)

Global Discount condition by Count Item (Menu code 1533)

(MENU → 5. Global Setting → 3. Discount → 3. Count discount)

Global Discount condition by PCS Item (Menu code 1534)

(MENU → 5. Global Setting → 3. Discount → 4. PCS discount)

2.6 Speed Key Setting (Menu code 1160)

This menu is to set “speed keys”, one-touch keys, for most frequently used PLUs to simply call up them. You can program up to 5 speed key set. Remember that there is a SHIFT key that allows you to double-use the Speed Keys. The Speed keys are numbered left-to-right and top-to-bottom.
You can use speed key set number when you program menu 1211.(See chapter 2.2.2)

☞ You can not assign the function key as speed keys.

2.6.1 Speed Key (Menu code 1160)

(MENU → 1.PLU → 6.Speed Key)

1. Speed Key Set No.

• Enter speed key set no. You can use this number when you program menu 1211. (See the chapter 2.2.2)

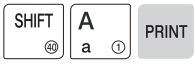
EX) Speed key set No. = 2

2. Speed Key Programming

• The Speed keys are numbered left-to-right and top-to-bottom. In case of standard type, there are 8 columns and 6 rows for a total of 48 physical keys but if you press the SHIFT key and then one of the 48 Speed keys, then you can access Speed keys 49 through 96. In case of pole type, there are 72 keys but if you press the SHIFT key and then one of the 72 Speed keys, then you can access Speed keys 73 through 144.

EX1) Speed key no. 1

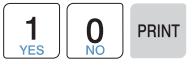
EX2) Speed key no. 49
(In case of standard type)

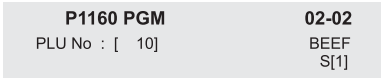


3. PLU No.

• Enter PLU no. to assign speed key
* PLU should be belong to scale’s department.

EX1) PLU 10 = BEEF





2.7 Programming Store Data

This chapter explains how to access, program STORE data table (Price Look Up) in CL5000 series.

2.7.1 Store Data (Menu code 1410)

(MENU → 4. Store Data Table → 1. Store)

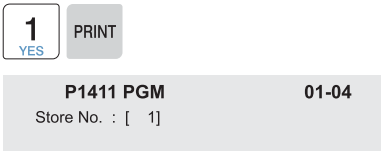
This section shows how to create, edit, list and delete store, customer, and advertisement message data.

2.7.2 New/Edit Store (Menu code 1411)

(MENU → 4. Store Data Table → 1. Store → 1. New/Edit Store)

1. Enter store number.

EX) #1

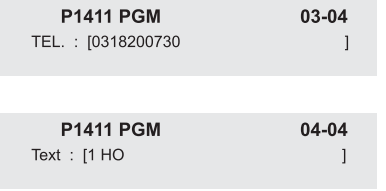


2. Press “PRINT” key and enter appropriate text in “NAME”.

EX) NAME=YANGJOO

3. Press “PRINT” key, then user may enter other store information such as TELEPHONE NUMBER or any text information.

EX) TEL.#=0318200730, TEXT=1 HO



4. Press “PRINT” key and user may go back to STORE main menu by using “ESC” key.

2.7.3 List Store (Menu code 1412)

(MENU → 4. Store Data Table → 1. Store → 2. List Store)

➡ This menu shows the list of STORE saved.
➡ Press "2" in STORE menu to get into LIST STORE menu.
➡ Press "SAVE" key to list all of STORE information saved.

1. Set the list range
• Set the list range to check

EX) 1~10

※ If you want to print list, press the TEST key.

2.7.4 Delete Store (Menu code 1413)

(MENU → 4. Store Data Table → 1. Store → 3. Delete Store)

➡ This menu is to delete the STORE user wish to.
➡ Press "3" in STORE menu to get into DELETE STORE menu.

1. Enter cutting hall number to delete

EX) Delete cutting hall no. 1

2.7.5 Customer (Menu code 1420)

(MENU → 4. Store Data Table → 2. Customer)

This section shows how to register customers' account and their information.
Customer information is to manage the specific customer's account receivable.
* Customer registration is used for printing a receipt of credit transactions

2.7.6 New/Edit Customer (Menu code 1421)

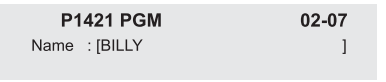
(MENU → 4. Store Data Table → 2. Customer → 1. New/Edit)

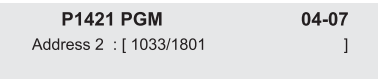
1. Enter Customer number and press "PRINT" key.

EX1) Customer No.=1,

2. Enter other informations in [ ], such as Name, Address1, and Address2.

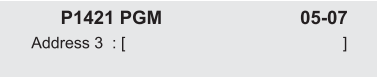
EX) NAME=BILLY, ADDRESS 1=GARAEBI.
ADDRESS 2=1033/1801

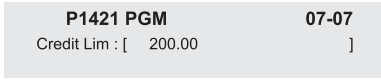




3. Press "PRINT" key, then user may enter the Address 3, TEL. Number and customer's CREDIT LIMIT AMOUNT.

EX) TEL.=0318201173
CREDIT LIMIT AMOUNT=200.00





4. Press "PRINT" key to enter the information. User may go back to main CUSTOMER menu by pressing "ESC" key.

2.7.7 List Customer (Menu code 1422)

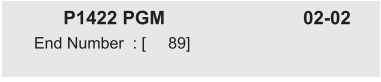
(MENU → 4. Store Data Table → 2. Customer → 2. List)

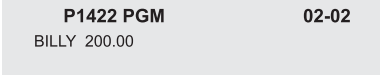
➡ This menu shows the list of CUSTOMER saved.
➡ Press "2" in CUSTOMER menu to get into LIST CUSTOMER menu.
➡ Press "SAVE" key to list all of CUSTOMER information saved.

1. Set the list range
• Set the list range to check

EX) 1~89

※ If you want to print list, press the TEST key.





2.7.8 Delete Customer (Menu code 1423)

(MENU → 4. Store Data Table → 2. Customer → 3. Delete)

➡ This menu is to delete the CUSTOMER user wish to.
➡ Press "3" in CUSTOMER menu to get into DELETE CUSTOMER menu.
➡ Enter customer number to delete.

1. Enter cutting hall number to delete

EX) Delete cutting hall no. 1

1 YES PRINT

```
P1423 PGM                01-01
Store No. : [ 1]
```

2.7.9 Scroll Message (Menu code 1430)

(MENU → 4. Store Data Table → 3. Scroll Message)

This function is to set the scrolling advertisement on LCD Display.

2.7.10 Configuration (Menu Code 1431)

(MENU → 4. Store Data Table → 3. Scroll Message → 1. Configuration)

1. Configuration

- User may set the wait time from 1 to 9999 second. Setting wait time as '0' is not to use "Scroll Message" function.

EX) Wait Time = 5

5 JKL PRINT

```
P1431 PGM                01-01
Wait Time (1s) : [    5]
```

2.7.11 Edit Scroll Message (Menu Code 1432)

(MENU → 4. Store Data Table → 3. Scroll Message → 2. Edit Scroll Message)

1. Input and edit Message

- User may input up to five messages and select two different scrolling effect. Please input messages No. and message.

```
P1432 PGM                01-06
Msg No. : [1]
```

```
P1432 PGM                02-06
Msg    : [Scroll Message....          ]
```

2. Enter Speed

- Speed means the message scrolling speed.User May set it from 1to9.

```
P1432 PGM                03-06
Speed(0.1s):[ 1  ]
```

3. Enter Blink Counts

EX) 1.

```
P1432 PGM                04-06
Blink Counts:[ 1  ]
```

```
P1432 PGM                05-06
Effect : [2]                LtoR
```

4. Set scrolling message effect

Effect =1: Scroll message right to left
Effect =2 : Scroll message left to right
Effect =3 : Scroll message blink

If you set [N] at Use Setting,
this scrolling message is not use.
If it use this scroll, then set [Y]

```
P1432 PGM                    06-06
Effect : [1]
Use message (Y/N) : [Y]
```

2.7.12 List Scroll Message (Menu Code 1433)

(MENU → 4. Store Data Table → 3. Scroll Message → 3. List)

This function is to set the scrolling advertisement on LCD Display.

1. Set the list range

• Set the list range to check

EX) 1~9

```
P1433 PGM                    01-02
1St Number: [     1]
```

```
P1433 PGM                    02-02
2nd Number  : [     9]
```

2.7.13 Currency (Menu code 1440)

(MENU → 4. Store Data Table → 4. Currency)

User may save rate of currency to default currency and convert to another currency simply by this function.

☞ Please refer to “Menu 1880 Function key definition”.

2.7.14 New/Edit Currency (Menu Code 1441)

(MENU → 4. Store Data Table → 4. Currency → 1. New/Edit)

1. Numbering Currency

• User may save up to 4 different currencies by numbering 1~4.

EX) Currency No. = 1

```
P1441 PGM                    01-07
Enter Currency No : [1]
```

2. Rate Decimal Point

• Enter th Rate Decimal Point (default = 4)

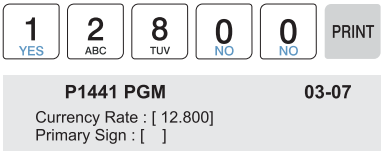
EX) Rate Decimal Point = 3

3. Currency Rate.

• Enter comparative rate of currency to default currency set.

EX) Default currency = $1.00

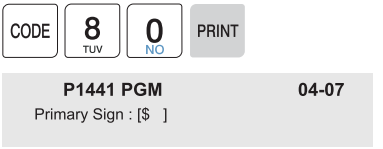
Comparative currency rate to default currency = €1.2800.



4. Primary Sign

• Enter the first currency sign to be changed.

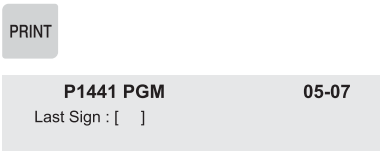
EX) Primary Sign = $



5. Last Symbol

• Enter the last currency symbol to be changed.

EX) No last symbol



6. Price Decimal Digit

• Enter the number of decimal digit

EX) Price Decimal point digit = 2

7. Price Output Form

• Enter the number

EX) Price Output Form = 1

▶ Printing formats of currency symbol

No	Printing Format	Remarks
0	“100.00”, “0.12”	
1	“$ 100.00”, “ $ 0.12”	
2	“100.00 $”, “0.12 $”	
3	“$ 100.00 c”, “$ 0.12c”	
4	“$ 100.00 c”, “12c(Greek)”	When total amount is less than 1, only “Last currency symbol” shows up.
5	“$100.00”, “$0.12”	
6	“100.00$”, “0.12$	
7	“$100.00c”, “$0.12c”	
8	“$100.00c”, “12c(Greek)”	When total amount is less than 1, only “Last currency symbol” shows up.

2.7.15 List Currency (Menu Code 1442)

(MENU → 4. Store Data Table → 4. Currency → 2. List)

1. Set the list range

• Set the list range to check

EX) 1~4

※ If you want to print list, press the TEST key.

```
P1442 PGM                01-02
1St Number: [     1]
```

```
P1442 PGM                02-02
2nd Number  : [     4]
```

```
P1442 PGM                02-02
1     1.2800   $
```

2.7.16 Delete Currency (Menu code 1443)

(MENU → 4. Store Data Table → 4. Currency → 3. Delete)

1. Currency number to delete

EX) Delete Currency no. 2

```
P1443 PGM                01-01
Enter Currency No : [ 2]
```

2.8 Programming Global Setting

2.8.1 Global Label Format (Menu code 1510)

(MENU → 5. Global Setting → 1. Label Format)

Pre-programmed fixed label formats are from #1 to #10 and these formats cannot be modified.

Label format #11~#30 are free formats that users may modify at their needs. Users may download one into the scale and set a specific free label format. (Refer to 4.2 Label format on chapter 2.14.20)

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

1. Global Label

- If you use Global Label, enter 1. If not, enter 0.
- * If you set it to 1, 1st format number is ignored which is set in PLU programming
- * 2nd label format is printed if it is set.

EX) Use global label

2. Set PLU label No.

- Set PLU label number

EX) PLU Label No. = 2. IS6040-0000(60x40)

3. Set Miscellaneous label number

- Set label format for miscellaneous item.

EX) Misc. Label ID = 2. IS6040-0000(60x40)

4. Set total label number

- Set label format of total label for Add-Up sales.

EX) Total label No. = 10 , TC6060-0002(60x60)

5. Set printing direction of total label

EX) Reverse Total Label = “Y”

P1510 PGM	05-06
Reverse Total Label : [Y]	

6. Set printing direction of PLU and Misc. item

EX) Reverse Item Label = “Y”

P1510 PGM	06-06
Reverse Item Label : [Y]	

7. Exit Menu

• If you want to exit, press “ESC” key.

2.8.2 Barcode Format (Menu code 1520)

(MENU → 5. Global Setting → 2. Barcode)

Global Barcode Setting provides all-in-one barcode setting by selecting nine different barcode options so that user does not need to save data for individual PLUs one by one. All related barcode data are selected and saved from PLU barcode data table user may already register.

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

1. Set Global Barcode

• If you use global barcode, enter 1. If not, enter 0.

* If you set it to 1, barcode number is ignored which is set in PLU programming

EX) Use global barcode

P1520 PGM	01-10
Use Global Barcode : [Y]	

2. Set barcode number for by-weight PLU

EX) PLU Weight barcode No. = 2

P1520 PGM	02-10
PLU Weight Barcode : [2]	

3. Set barcode number for by-count PLU

EX) PLU Count barcode No. = 2

2 ABC PRINT

P1520 PGM **03-10**
PLU Count Barcode : [2]

4. Set barcode number for by-PCS PLU

EX) PLU PCS barcode No. = 2

2 ABC PRINT

P1520 PGM **04-10**
PLU PCS Barcode : [2]

5. Set barcode number for fixed PLU

EX) PLU fixed barcode No. = 2

2 ABC PRINT

P1520 PGM **05-10**
PLU Fixed barcode : [2]

6. Set barcode number for Misc. weight item

EX) Misc. weight barcode No. = 2

2 ABC PRINT

P1520 PGM **06-10**
Misc. Weight Barcode : [2]

7. Set barcode number for Misc. count item

EX) Misc. count barcode No. = 2

2 ABC PRINT

P1520 PGM **07-10**
Misc. Count Barcode : [2]

8. Set barcode number for Misc. PCS Item

EX) Misc. PCS barcode No. = 2

2 ABC PRINT

P1520 PGM **08-10**
Misc. pcs Barcode : [2]

9. Set barcode number for Add-Up Total

EX) Add Up TTL barcode No. = 2

10. Set barcode number for floating Total

EX) Floating TTL barcode No. = 2

11. Exit Menu

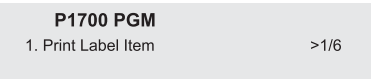
• If you want to exit, press “ESC” key.

2.9 Printing Programming

This chapter explains how to set printing-related environments, such as print label item, markdown, Hardware, serial # format, and ticket.

2.9.1 Printing (Menu code 1700)

(MENU → 7. Print)



▶ PRINT Submenu

No	Submenus	Description
1	Print Label Item	Select item(s) which is(are) not printed on label.
2	Markdown	Select “Yes” or “No” to print both of original and discount information on the label.
3	Print Hardware	Set the label type and sensor of printer
4	Serial # Format	Set the format of serial number to print label or ticket
5	ADD-UP Total	Select add-up total label whether is printed or not
6	Ticket	Set printing item for ticket

2.9.2 Print label item (Menu code 1710)

(MENU → 7. Print → 1. Print Label Item)

If you set any of the items to Y, then they will NOT print on any labels regardless of the label format.

You can use the PG UP and PG DOWN keys to navigate from page to page, or you can use the Arrow keys to go through each page 1 line at a time.

◆ You can press the SAVE key at anytime to save the current data and if you want to exit without saving, press the ESC key.

1. If you do not want to print, enter 0(N), if you want to print, enter 1(Y).

▶ Print Label Item

Page	Item	Page	Item
1	Department Name	27	Percent Tare
2	Department Number	28	Percent Tare Limit
3	Group Number	29	Saved Price
4	PLU Number	30	Label Serial
5	PLU Name 1	31	Store Name
6	PLU Name 2	32	Clerk Number
7	PLU Name 3	33	Clerk Name
8	Item Code	34	Customer Name
9	Unit Weight	35	Customer Number
10	Tax Rate	36	Scale Number
11	Tax Price	37	Day of Week
12	Tare Weight	38	Currency Rate
13	Pieces	39	Second Total Price
14	Unit Symbol	40	Second Unit Price
15	Sell By Date	41	Traceability
16	Sell By Time	42	Nutrition Fact
17	Packed On Date	43	Label Caption
18	Packed On Time	44	Total Tax Price
19	Produced Date	45	Second Add Total
20	Cook By Date	46	Barcodes
21	Bonus Point	47	Image
22	Origin	48	Weight
23	Ingredient	49	Quantity
24	Sales Message	50	Unit Price
25	Refer. Net Weight	51	Total Price
26	Refer. Gross Weight		

2.9.3 Markdown (Menu code 1720)

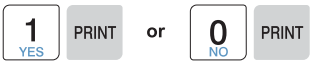
(MENU → 7. Print → 2. Markdown)

Markdown is to select “Yes” or “No” to print both of original and discount information on the label. There are 4 selectable sub-menus on label.

▶ Markdown Sub-menu

No	Sub-menu	Description
1	Total Price Markdown	Select “Yes” to display both of original total price and discount total price if any. Otherwise
2	Unit Price Markdown	Select “Yes” to display both of original unit price and discount unit price if any. Otherwise
3	Weight Markdown	Select “Yes” to display both of original weight and discount weight if any. Otherwise
4	Quantity Markdown	Select “Yes” to display both of original quantity and discount quantity if any. Otherwise

1. Select Yes or No by using 1 or 0 key and press the PRINT key.



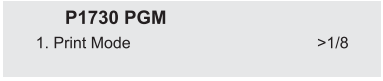
2. After setting all of above MARK DOWN sub-menus use “ESC” key or “SAVE” key to go back to PRINT main menu.

2.9.4 Printer Hardware (Menu code 1730)

(MENU → 7. Print → 1. Printer Hardware)

This section is to explain how to set printing H/W environments in the following table.

1. Press "3" to get into H/W setting mode on Print Menu.



▶ Printer Hardware Sub-Menu

No.	Sub-menu	Description
1	Print Mode	Select label, ticket or continuous label mode.
2	Label / Ticket Size	If it is Label mode, "Width(60)", "Height(40)" and "Gap length(2)" size is set, If it is Ticket mode, "Width(60)", "Feed(20)" and "End Margin(5)" size is set. If you use Continuous Label Paper in Label mode, "Gap length" value is applied to "End Margin". * The values in ( ) are default.
3	Sensor Calibration	Enter the "Gap(128)" and "Peel(128)" values for printing sensor calibration. * The values in ( ) are default. * If you press "TEST" key, Gap and Peel values are adjusted automatically. * In case of Ticket mode, Gap value is not saved.
4	Sensor & Motor	Set Peel-off sensor, Rewind Motor and Label Paper type
5	Print Intensity	Set the extent of intensity of label (ticket) printed.
6	Adjust Feed Length	Set adjusting values of feed length. This value can be from -200 to +200. You can change sign(+,-) by pressing ZERO key. + value will print higher than THP. * Pressing "TEST" key automatically feeds to adjust the feed length.
7	Label Preprint	You can set preprint length.
8	Printer Speed	You can set printer speed

2.9.5 Print Mode (Menu code 1731)

(MENU → 7. Print → 3. Printer Hardware → 1. Print Mode)

Select “0” for Label Mode, “1” for Ticket Mode or “2” for Continuous Label Mode.
• Press “PRINT” to save.

P1730 PGM	01-01
Print Mode (0-2) : [0]	Label M

2.9.6 Label Size/Ticket Size (Menu code 1732)

(MENU → 7. Print → 3. Printer Hardware → 2. Label Size)

Enter values for “Width”, “Height”, “Gap Length”.
If you press “TEST” key, height and gap length of current label is measured.

P1732 PGM	01-01
W[60],H[40],G[2]	

* If it is Ticket Mode, “TICKET SIZE” is displayed, and “TEST” key is not operated.
* If it is Label mode and Continuous Label Paper, “TEST” key is not operated. And "End Margin" instead of "Gap Length" shows up.

P1732 PGM	01-01
W[60]mm	

2.9.7 Sensor Calibration (Menu code 1733)

(MENU → 7. Print → 3. Printer Hardware → 3. Sensor Calibration)

Enter appropriate values for “Gap”, “Peel”, “Out of Paper”.

P1732 PGM	01-01
W[60],H[40],G[2]	

* If you press “TEST” key, Gap and Peel values are adjusted automatically.
* If it is Ticket mode, “Gap” value is not saved.

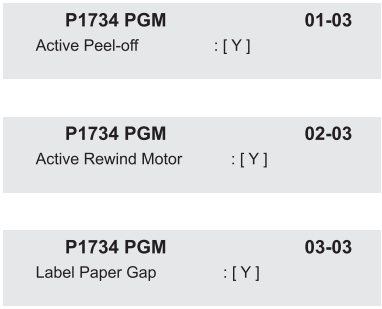
P1732 PGM	01-01
W[60]mm	

2.9.8 Sensor & Motor (Menu code 1734)

(MENU → 7. Print → 3. Printer Hardware → 4. Sensor & Motor)

Enter appropriate values or "Yes" or "No" for "PRINT METHOD TYPE", "ACTIVE PEEL-OFF", "ACTIVE REWIND MOTOR", and "LABEL PAPER".

* If there is no gap on a label, set Label Paper to 0, if there a gap, set it to 1.
* When "Ticket Mode" is in "Print Mode", [Rewind Motor] and [Labe Paper] do not work.



2.9.9 Print Intensity (Menu code 1735)

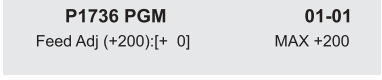
(MENU → 7. Print → 3. Printer Hardware → 5. Print Intensity)

Enter any value from "0" to "20".
Press "TEST" to test printing a label.

2.9.10 Adjust Feed Length (Menu code 1736)

(MENU → 7. Print → 3. Printer Hardware → 6. A djust Feed Length)

Enter any value of the feed alignment from "-200" to "+200".
Press "ZERO" to toggle sign.
Press "TEST" to test feed or "ENTER" to save current "FEED Length value.



* 1pixel = 0.125mm

EX) "+80" will print 10mm higher.
"-40" will print 5mm lower.

2.9.11 Label Preprint (Menu code 1737)

(MENU → 7. Print → 3. Printer Hardware → 7. Label Preprint)

Enter “Y(Yes)” or “N(No)” to select Preprint mode and any value of the preprint length from “0”mm to “10”mm. Press “TEST” to test preprinting.

After setting all of above H/W setting sub-menus use “ESC” key to go back to PRINT main menu.

P1737 PGM **01-02**
Pre-print Mode : [N]

P1737 PGM **02-02**
Pre-print Length : [10]

2.9.12 Label Preprint (Menu code 1738)

(MENU → 7. Print → 3. Printer Hardware → 8.Printer Speed)

Select Printer Speed

EX) Speed 3

P1738 PGM **01-01**
Printer Speed : [3] 110mm

No.	Speed
0	60mm
1	90mm
2	100mm
3	110mm

2.9.13 Serial # Format (Menu code 1740)

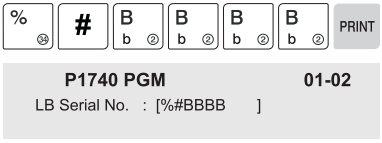
(MENU → 7. Print → 4. Serial # Format)

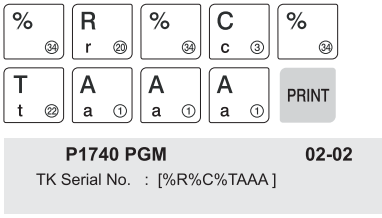
SERIAL # FORMAT programming is for numbering of label/ticket issued (printed) on label/ticket. User may identify daily total counts of label/ticket used up.

① **Press “4” to go to SERIAL NUMBER FORMAT menu in PRINT main menu.**

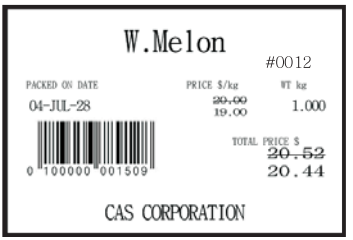
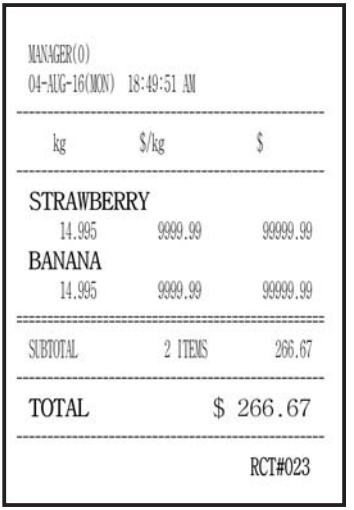
② Enter appropriate data in [ ].

EX) #0001 on label
RCT#001 on ticket





Meaning
I : Item Code
N : PLU Number
P : Price
U : Unit Price
W : Weight
Q : Quantity
D : Department
G : group
A : Ticket Counter (Ticket Mode)
B : Scale Transaction Counter
F : PLU Prefix Character
T : Text Character
R : Transaction Counter of Each PLU
L : Clerk Number
% : Print Fixed Character in the Next Space.
K : Country Code (For Future)

Sample Label Serial Number	Sample Ticket Serial Number
	

2.9.14 Add-Up Total (Menu code 1750)

(MENU → 7. Print → 5. Add-up Total)

This section shows how to set printing environments of total label and item label when you use ADD-UP sales.

① Press "5" to get into ADD-UP TOTAL menu in PRINT main menu.

5 JKL

P1750 PGM	01-02
Prt. Total Label: [Y]	

② Press "0" for "No" or "1" for "Yes" in [ ].

1 YES PRINT 0 NO

EX) Print Total Label - Yes
Print Item Label - No

P1750 PGM	02-02
Prt. Item Label: [N]	

③ **Press “PRINT” key to save and go back to PRINT main menu**

▶ ADD-UP Setting

ADD-UP Setting	Description
Print Total Label	Total label is printed when you press the PRINT key during add-up sales.
Print Item Label	Item label is printed whenever you press the ADD key.

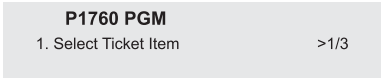
※ It is applied to Label mode.

2.9.15 Ticket (Menu code 1760)

(MENU → 7. Print → 6. Ticket)

This section shows how to select item(s) (Contents) printed on ticket.

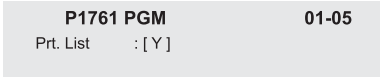
① **Press “6” to go to TICKET setting.**

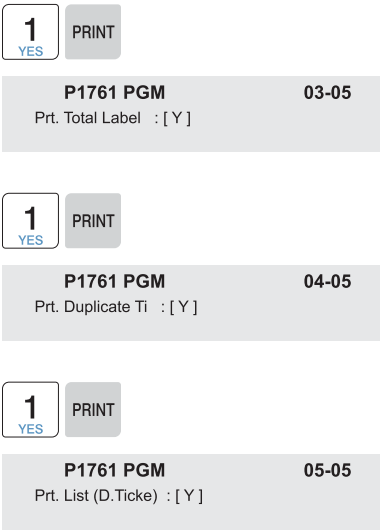


2.9.16 Select Ticket Item (Menu code 1761)

(MENU → 7. Print → 6. Ticket → 1. Select Ticket Item)

① **Press “1” to go to SELECT TICKET ITEM menu.**
Select “Yes” or “No” for “Print List”, “Print Total Barcode”, and “Print Total Label”.
“Print Duplicute ticket”,”Print List Duplicute ticket”



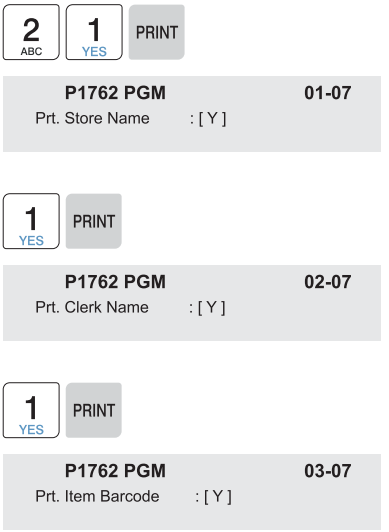


2.9.17 Select List Item (Menu code 1762)

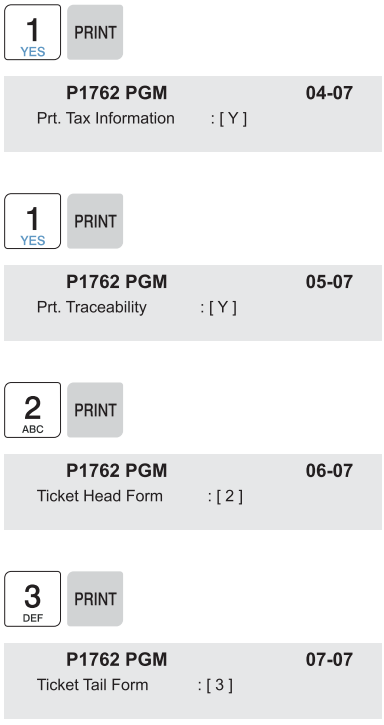
(MENU → 7. Print → 6. Ticket → 2. Select List Item)

Before setting list item, you have to set “Print List” to “Y” in menu 1761.

① **Press “2” to get into SELECT LIST ITEM menu.**
Select “Yes” or “No” for “Print Store Name”, “Print Clerk Name”, and “Print Item Barcode”.



② **Select “Yes” or “No” for “Print Tax Information”, and “Print Traceability”. And, select appropriate ID # for “Ticket Head Form” and “Ticket Tail Form”.**

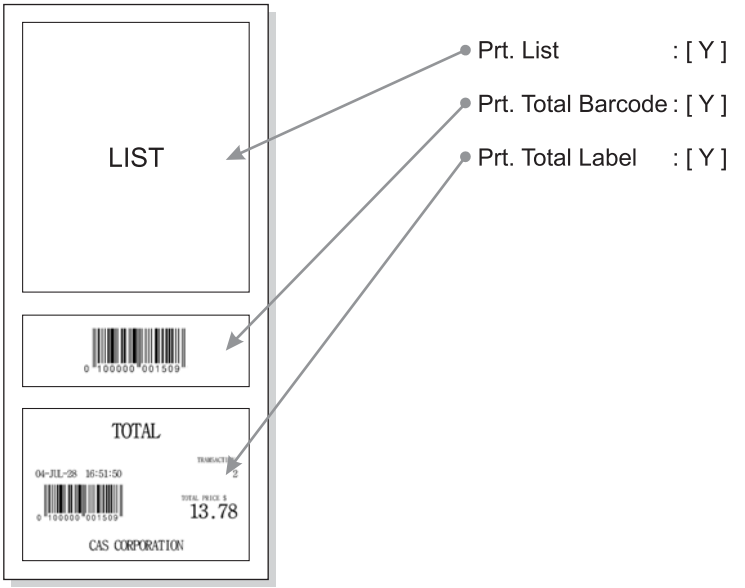


▶ Ticket Format Setting

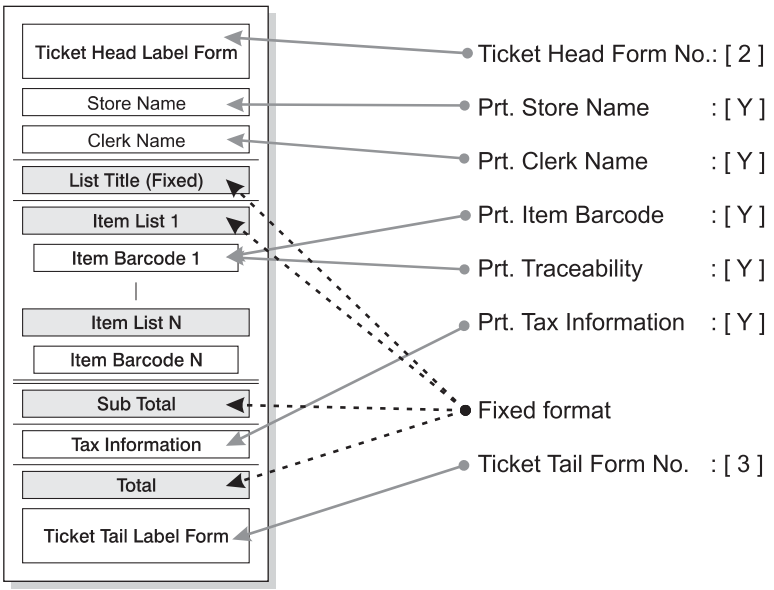
	Ticket Format Setting	Description
Ticket Item	Print List (Y/N)	■ Printing the list of each sales item(s). * In case of “Yes” selected user can go to “List Item” setting.
	Print Total Barcode	■ Printing total barcode on ticket.
	Print Total Label	■ Printing total amount on ticket.
List Item	Print Store Name	■ Printing store name on ticket.
	Print Clerk Name	■ Printing clerk name on ticket.
	Print Item Barcode	■ Printing every item’s barcode on ticket.
	Print Tax Information	■ Printing tax information on ticket.
	Print Traceability	■ Printing traceability information on ticket
	Ticket Head Form No.	■ Printing label format No. for ticket head.
	Ticket Tail Form No.	■ Printing label format No. for ticket tail.

※ You have to download label format for Ticket Head Form No. and Ticket Tail Form No. from PC.

◆ Ticket Format



◆ List Format



2.9.18 Select Ticket Font Size (Menu code 1763)

(MENU → 7. Print → 6.Ticket → 3. Select Ticket Font Size)

1.If you do not want to print, enter 0(N), if you want to print, enter 1(Y).

No.	Item
1	PLU Name
2	Transaction Data
3	Total Value
4	Ticket Serial No.

1 YES PRINT or 0 NO PRINT

P1763 PGM **01-04**
PLU Name : [Y]

P1763 PGM **02-04**
Transaction Data : [Y]

P1763 PGM **03-04**
Total Value : [Y]

P1763 PGM **04-04**
Ticket Serial No : [Y]

2.10 Programming Scale Configuration

2.10.1. Scale Configuration (Menu code 1800)

(MENU → 8. Scale Config)

This chapter explains how to configure the scale. The main menu of “Scale Configuration” is shown as below.

No.	Item
1	Sale Mode
2	Operation Mode
3	Department
4	Date/Time
5	User/Security Configuration
6	Test
7	Scal Parameter
8	Function Key Define

2.10.2 Sale Mode (Menu code 1810)

(MENU → 8. Scale Config → 1. Scale Mode)

This section is to select sale mode, which have six different modes in the following table.

▶ Sale Modes

No.	Sale Modes	Description
1	REG: Ticket & Floating	Selecting Ticket and Floating Clerk Mode.
2	REG: Label	Selecting label Mode.
3	REG: Prepack	Selecting Prepack Mode.
4	REG: Label & Floating	Selecting Label and Floating Clerk Mode.
5	Manager	Selecting Manager Mode
6	Repack	Selecting Repack Mode (In this mode, report is not updated.)
7	Self Service & Label	Selecting Self Service Mode (In this mode, you can use speed key and some keys. If you want to finish this mode, while pressing MENU key, enter system password and PRINT key)

▶ Selecting one of following sale modes, user may select an one-stop setting for Clerk, Operation, Print, and Prepack mode.

MODE	Clerk Mode	Operation Mode	Print Mode	Prepack Mode
1. REG: Ticket & Floating	Floating Clerk	Regist	Ticket	OFF
2. REG: Label	No Clerk	Regist	Label	OFF
3. REG: Prepack	No Clerk	Regist	Label	ON
4. REG: Label & Floating	Floating Clerk	Regist	Label	OFF
5. Manager	-	Manager	-	OFF
6. Repack	-	Repack	-	OFF
7. Self Service & Label	-	-	Label	OFF

Usually user has to set each option you wish to for clerk, operation, print or prepack mode. However, user may select simply one-stop sales mode for 7 different modes-Clerk, Operation, Print, and Prepack mode. User may also set options for Clerk/Operation mode in MENU 1820 and Print/Prepack mode in MENU 1731.

1. Select a sale mode

EX) Sale mode = 2.REG: Label

2. Select “Floating & Ticket” mode

EX) Sale mode = 1.REG: Ticket & Floating

2.10.3 Operation Mode (Menu code 1820)

(MENU → 8. Scale Config → 2. Operation Mode)

This section is to select a clerk and operation mode. There are three different operation modes, REGISTRATION, RE-PACK, MANAGER and three different clerk modes, NO CLERK, STANDARD CLERK, and FLOATING CLERK.

▶ Clerk Modes

No	Clerk Modes	Description
1	No Clerk	Sales clerk do not log in and makes sales using “PRINT” key.
2	Standard Clerk	Sales clerk can make sales when he/she logs in.
3	Floating Clerk	Plural sales clerks can make sales using own clerk ID.

▶ Operation Modes

No	Operation Modes	Description
1	Registration	Normal sales mode.
2	Repack	Normal sales mode but not included in total sales data(report). Good for clerk training.
3	Manager	In this mode user can access all of functions without any permission.

1. Select appropriate “CLERK MODE” and “OPERATION MODE”.

EX) Clerk Mode=Standard Clerk

Operation Mode=Registration

2.10.4 Department (Menu code 1830)

(MENU → 8. Scale Config → 3. Department)

This section shows how to select current department where scale is being used. User can use (call up) PLUs only for current department selected in sales mode.
For example, if current department selected is GROCERY user can call up items registered only in GROCERY department. If user would like to use PLUs registered in other department than current department he/she should change scale’s department setting.
Store No. represents Store Name (or branch number) on label/ticket printed.

1. Select “DEPARTMENT No.” and “STORE ID”.

EX) DEPARTMENT No.= 2 (Grocery)

2 ABC PRINT

P1830 PGM	01-02
Dept No. : [2]	Grocery

STORE No.= 1 (Branch #1)

1 YES PRINT

P1830 PGM	02-02
Store No. : [1]	Branch #1

2.10.5 Date & Time (Menu code 1840)

(MENU → 8. Scale Config → 4. Date/Time)

This section is to set scale’s DATE & TIME appropriately.

1. Set appropriate “DATE”, “TIME”, and “MONTH FORMAT”.

EX) ATE= [07.02.04]
TIME= [10:30:00]
Month Format= [1]

P1840 PGM	01-07
Date : [07.02.04]	

P1840 PGM	02-07
Time : [10:30:00]	

P1840 PGM	03-07
Month Format: [1]	NUMBER

2. Set “YEAR FORMAT”,“TIME FORMAT” and separator for “DATE”.

EX) Year Format (0=2001, 1=01) = [1]
Time Format(0~3) = [1]
Date Separator= [-]

P1840 PGM	04-07
Year Format : [1]	2 DIGIT

P1840 PGM	05-07
Time Format: [1]	12 HOUR

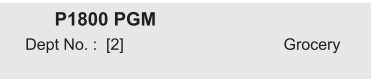
P1840 PGM	06-07
Date Separator : [-]	

3. Set separators for “DATE”, using ASCII code table on page

EX) Time Separator= [:]

☞ Please refer to “ASCII Code Table” (chapter 4.4) to input special characters in Date or Time separator.

4. Press “PRINT” key to save it and go out to SCALE CONFIGURATION main menu.



2.10.6 User / Security Configuration (Menu code 1850)

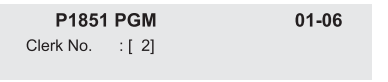
(MENU → 8. Scale Config → 5. User/Sec Conf)

This section is to create, edit, change, list, delete clerk’s security information and configure security level.

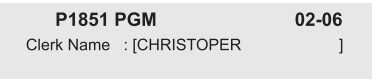
2.10.7 New/Edit User(Menu code 1851

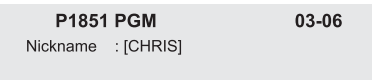
(MENU → 8. Scale Config → 5. User/Sec Conf → 1. New/Edit)

Enter appropriate USER data for CLERK number, CLERK NAME, NICKNAME, CLERK PASSWORD, CLERK LEVEL, and LABEL MESSAGE NO.

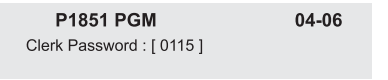


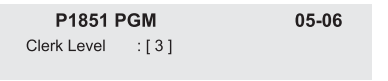
EX) CLERK No.=[2],
CLERK NAME=[CHRISTOPER],
NICKNAME=[CHRIS],
CLERK PASSWORD=[0115],
CLERK LEVEL=[3],
Use for Training=[N]





Note : If you use floating mode, you have to register all clerks.





▶ NEW/EDIT USER in USER'S Security Condition

No	Operation Modes	Description
1	Clerk No.	This value can be from 1 to 95.
2	Clerk Name	This value is available up to 22 characters.
3	Nickname	This value is available up to 7 characters. It can be printed on a label and displayed on the scale.
4	Clerk Password	4 digit (alphanumeric)
5	Clerk Level	0~3 level
6	Use for Training	Enter "Y" or "N"

Password : When you enter the password, you have to type clerk number(2 digit) and password(4 digit). For example, if your clerk number is 20 and password is 1234, you have to type 201234. Minimum password is 3 digit and maximum password is 6 digit.
If there is no level 3 clerk, you can use default value. (Clerk No:1, password:1, Level:3) Therefore default password is 011.

※ You have to set a level 3 clerk. If there is no level 3 clerk, you can use default password(011) and if any, you cannot use it.

Clerk level: This value can be from 0 to 3. This level is related to menu 1855(Config permission). If clerk 2 is set to level 2, this clerk can use the function which is set to level 1, 2 in menu 1855 and cannot use the function which is set to level 3.

No.	Level	Description
1	0	It is assigned to employees who is registerd but do not use scale.
2	1	Lowest level. Normal employees are assigned to level 1.
3	2	It is proper for chief clerk.
4	3	Highest level. It is proper for store manager.

2.10.8 Change Password (Menu code 1852)

(MENU → 8. Scale Config → 5. User/Sec Conf → 2. Change Password)

1. Enter password.

Input Password : [ ]

* Clerk No. (2 digit)+ password (4 digit)

EX) CLERK No.=1 , PASSWORD=2 -> 012
CLERK No.=11 , PASSWORD=22 -> 1122
CLERK No.=36, PASSWORD=1234 -> 361234

2. New Password

* Enter new password

EX) PASSWORD = 22

```
P1852 PGM                01-01
New Password : [  22]
```

2.10.9 List User (Menu code 1853)

(MENU → 8. SCALE CONFIG → 5. User/Sec Conf → 3. List)

1. Enter start number and end number to check

* To list all, press the SAVE key

EX) 1~95

```
P1851 PGM                01-02
1St Number: [     1]
```

```
P1851 PGM                02-02
2nd Number  : [     95]
```

```
P1851 PGM                02-02
1     3      JOHNATHAN
```

2.10.10 Delete User (Menu code 1854)

(MENU → 8. SCALE CONFIG → 5. User/Sec Conf → 4. Delete)

1. Enter clerk number to delete

EX) Delete clerk no. 2

```
P1854 PGM                01-01
Clerk No. : [ 2]  LEE
```

2.10.11 Config Permission (Menu code 1855)

(MENU → 8. SCALE CONFIG → 5. User/Sec Conf → 5. Config Permission)

Permission level is related to clerk level and if the clerk level is lower than permission level, this clerk cannot access that function. Refer to clerk level on chapter 2.14.21

※ If permission level is “0”, all clerks can access this function.

EX) If you set permission level to 2 for price change key and clerk 1 is set to level 1 and clerk 2 is set to level 2, clerk 1 can not use this key but clerk 2 can use this key.

▶ Setting Configuration Permission

No.	Operating	Description
1	Use Item Change Key	Set a permission level for PLU Change Key. (You can define this function key in menu 1880 on chapter 2.14.22)
2	Use Price Change Key	Set a permission level for price change key. (You can define this function key in menu 1880 on chapter 2.14.22)
3	Use Dept. Change Key	Set a permission level for department change key. (You can define this function key in menu 1880 on chapter 2.14.22)
4	Use Pay Key	Set a permission level for Pay key (You can define this function key in menu 1880 on chapter 2.14.22)
5	Use Date Change Key	Set permission level for data change key. (You can define this function key in menu 1880 on chapter 2.14.22)
6	Use Type Change Key	Set a permission level for PLU type change key.(You can define this function key in menu 1880 on chapter 2.14.22)
7	Use selection PLU Item	Set a permission level for Selecting PLU item
8	Use Input Weight Key	Set a permission level for Input weight key(You can define this function key in menu 1880 on chapter 2.14.22)
9	Use Discount Key	Set a permission level for discount (You can define this function key in menu 1880 on chapter 2.14.22)
10	Allow Clerk Sale	Set a permission level for password in floating mode
11	Allow Void	Set a permission level to void item
12	Allow Add Up	Set a permission level for add-up sales
13	Allow Return	Set a permission level to return item
14	Allow Override	Set a permission level to override price
15	Allow CashDraw Open	Set a permission level to open cash drawer
16	Allow Menu	Set a permission level to go to program menu
17	Allow Menu for edit PLU	Set a permission level to edit PLU
18	Allow Price Change	Set a permission level to change price
19	Allow Global Set	Set a permission level for global setting
20	Allow X Report	Set a permission level for X report
21	Allow Z Report	Set a permission level for Zreport
22	Allow Store Data Edit	Set a permission level to edit store data
23	Allow Tax Edit	Set a permission level to edit tax
24	Allow Scale Config	Set a permission level for scale configuration

25	Allow Communication Msg	Set a permission level for communication message
26	Allow Edit Data Table 1	Set a permission level to edit data table I.
27	Allow Edit Data Table 2	Set a permission level to edit data table II.
28	Allow Printer Setting	Set a permission level for printer setting
29	Allow Change Oper Mode	Set a permission level to change operation mode
30	Allow Change User Param	Set a permission level to change user param.
31	Allow Set Communication	Set a permission level for communication setting.
32	Use save key	Set a permission level for Save key

You can use the PG UP and PG DOWN keys to navigate from page to page, or you can use the Arrow keys to go through each page 1 line at a time.

2.10.12 Clerk Key (Menu code 1856)

(MENU → 8. SCALE CONFIG → 5. User/Sec Conf → 6. Clerk Key)

You can assign Clerk key to clerk. There are 31 Clerk keys and you have to set these keys in menu 1880 (Key define). See chapter 2.14.22.

1. Enter Clerk Key

• This value can be from 1 to 31.

EX) Clerk Key No. = 2

```
P1856 PGM                01-02
Clerk Key : [ 2]
```

2. Enter Clerk No.

EX) Clerk = 2. LEE

```
P1856 PGM                02-02
Clerk No. : [ 2]          LEE
```

For example if you set "A" key to clerk 2 in menu 1880 (Key define), and call up a PLU and press "A" key in floating sale mode, it is recognized that clerk no. 2 (LEE) sold this item.

2.10.13 Test (Menu code 1860)

(MENU → 8. SCALE CONFIG → 6. Test)

This programming is to test the scale by itself in the 7 fields , such as DISPLAY, A/D, KEYBOARD, PRINTER, RINTER SENSOR, MEMORY INFORMATION AND FIRMWARE VERSION.

① Press "6" to get into TEST menu.

```
P1860 PGM
1.Display                >1/8
```

No.	Item
1	Display
2	A/D
3	Keyboard
4	Chess Print
5	Printer Sensor
6	Memory Information
7	Firmware Version
8	Communication

2.10.14 Display Test (Menu code 1861)

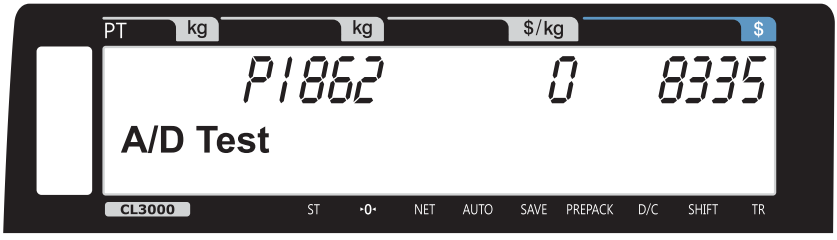
(MENU → 8. SCALE CONFIG → 6. Test → 1. Display)

To test the display, press “1” on Test menu screen. It automatically tests it.
User may exit from testing, using “ESC” key.

2.10.15 A/D Test (Menu code 1862)

(MENU → 8. SCALE CONFIG → 6. Test → 2. A/D)

To test the A/D, press “2” on Test menu screen.



To set zero press “ZERO”

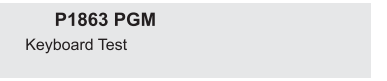
User may exit from this menu, using “ESC” key

2.10.16 Keyboard Test (Menu code 1863)

(MENU → 8. SCALE CONFIG → 6. Test → 3. Keyboard)

To test keyboard, press “3” on Test menu screen.

To exit keyboard test, press “ESC” two times.

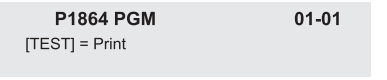


2.10.17 Chess Printer Test (Menu code 1864)

(MENU → 8. SCALE CONFIG → 6. Test → 4. Chess Print)

Press “TEST” key to test printing a label.

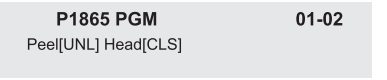
User may exit from this menu, using “ESC” key.

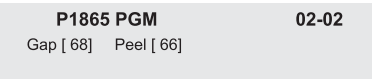


2.10.18 Printer Sensor Test (Menu code 1865)

(MENU → 8. SCALE CONFIG → 6. Test → 5. Printer Sensor)

To test printer sensor, press “5” on Test menu screen. The scale shows the condition of current printer sensor.





▶ Printer Sensor Test Items

No	Test Items	Description
1	Peel-off	To test that peel-off sensor is properly work.
2	Head-up	To test that TPH is opened or not
3	Gap	To show real time-sensoring Gap value.
4	Peel	To show real time-sensoring peel value.

2.10.19 Memory Information (Menu code 1866)

(MENU → 8. SCALE CONFIG → 6. Test → 6. Memory Information)

To see memory information, press "6" on Test menu screen. The display shows current memory size. 0 indicates 1MB.

P1863 PGM
BNK0:4MB BNK1:4MB

User may exit from this menu, using "ESC" key.

2.10.20 Firmware Version (Menu code 1867)

(MENU → 8. SCALE CONFIG → 6. Test → 7. Firmware Version)

You can check firmware version of the scale.

P1867 PGM
MB:CL3-CHN-10.1.00r

User may exit from this menu, using "ESC" key.

2.10.21 Scale Parameter (Menu code 1870)

(MENU → 8. SCALE CONFIG → 7. Scale Parameter)

You can set scale's environment as below.

▶ Scale Parameter

Menu	Sub-menu	Setting Value	Description
1. Display (Menu code:1871)	Display Discount Info	Y/N	The scale shows discount information.
	Show Clerk Nickname	Y/N	The scale shows clerk's nickname
	PLU Name Align	0: Left alignment 1: Center alignment 2: Right alignment	Set the alignment position of PLU
	Enable scroll msg	Y/N	The scale shows scroll massage
2. Printing (Menu code:1872)	Label prt w.o rewind(x Key)	Y/N	Do not use rewind function when you use "X"key.
	Confirm prt report on label	0:Print automatically 1:Need to confirm to print report and do not confirm any more until power off 2:Need to confirm to print report and do not confirm any more until you exit program mode	Set confrim method when you print report in label mode

	Print origin for comm..line	0: Do not print 1: Print in Name 1. 2: Print in Name 2 3: Print in Name 3	Print origin in commodity line.
	Print unit symbol in qty area	Y/N	Print Qty Symbol in qty area.
	Print pieces in unit price area	Y/N	Print Pieces in unit price area.
	Print All report within range	Y/N	Print all report
	Swedish Auto Barcode	Y/N	Print Swedish Auto Barcode
	Print Prepack Type	Y/N	Print Prepack
	Print Item when return	Y/N	Print Item when return
3. Sale Setup (Menu code:1873)	Save unit price change	Y/N	Save unit price change.
	Save Type change	Y/N	Save type Change in PLU
	Start save mode(start up)	Y/N	Save mode is active when you turn on the scale.
	PLU clr Aft sale(WT. On Tray)	Y/N	Plu is cleared after printing even though there is an item on the platter.
	Print count w.o misc. key	Y/N	If you enter count, it is considered that misc. count condition when there is no Misc. Key
	Print weight w.o misc. key	Y/N	If there is an item on the platter, it is considered that misc. weight condition when there is no Misc. Key
	T.price = price + Tax	Y/N	Tax is included in total price
	Shift key instead return Key	Y/N	Use shift key instead of return key.
	Use double speed key	Y/N	Use double speed key
	Use double Date/Time key	Y/N	-
	Multi-print on discount sale	Y/N	Print some labels on discount sale
	Star auto mode(start up)	Y/N	Run Auto mode at Power On
	Enable Quick PLU	Y/N	Select PLU automatically when you type a PLU number
4. Clerk Logout (Menu code:1874)	Log off after transaction	Y/N	After printing label, automatically Clerk Log off
	Clerk log out Time(0.1s)	1~99	Set clerk log out time.

You can use the PG UP and PG DOWN keys to navigate from page to page, or you can use the Arrow keys to go through each page 1 line at a time.

2.10.22 Function Key Define (Menu code 1880)

(MENU → 8. Scale → 8. function Key Define)

You can define function keys to Speed keys. It is recommended that you define function key to higher number Speed key because you can not use that PLU key.

1. Enter key code

Pole type : 72 Speed Keys

Standard type : 48 Speed Keys.

If you press Speed key, the displays shows the key code of that speed key.

EX) Standard Type :
Press last speed key.

EX) Pole Type:
Press last speed key

2. Enter function key

EX) Use 12 Function key (LCD Back_light ON/OFF) Refer to below table.

▶ Function Key.

Function Key	Define	Description
1	[DISC -]	- SALE Key
2	[DISC%]	% SALE Key
3	[SPECIAL SALE]	Special sales unit price
4	[NEGATIVE]	Negative sale
5	[FIXED PRICE]	Fixed Price Key
6	[TYPE CHANGE]	WT/CT Key
7	[CASHOPEN]	Cash Drawer Open Key
8	[GRAND TOTAL]	Grand Total Key
9	[PLU REFERENCE]	Reference PLU Key
10	[IN WEIGHT]	In-Weight Key

11	[LABEL/TICKET]	Toggle between the Label and Ticket
12	[LEDON]	LCD Backlight On/Off Key
13	[MISC WEIGHT]	Misc. Weight Key
14	[MISC COUNT]	Misc. Count Key
15	[MISC PCS]	Misc. PCS Key
16	[EDIT SELL]	Sell By Date Change Key
17	[EDIT ORIGIN]	Origin Change Key.
18	[EDIT ITEM]	PLU Change Key
19	[EDIT DATETIME]	Change Date/Time
20	[EDIT D/C]	Set discount for current PLU
21	[EDIT SPEEDKEY]	Change PLU Speed key
22	[EDIT PRICE]	PLU Price Change Key
23	[CLERK CALL]	Clerk key to call indirectly
24	[LAST VOID]	Void Last Sale
25	[OVERRIDE]	Override key
26	[DEPT]	Department Key
27~30	[CURRENCY1~4]	Call Currency Table
33~41	[TARE KEY1~9]	Call Tare Table
42~44	[UNIT1~3]	kg : UNIT1=1kg, UNIT2=100g, UNIT3=N/A lb : UNIT1=1lb, UNIT2=1/2lb, UNIT3=1/4lb
45	[kg/lb]	Toggle between the kg and lb
53~84	[V1~32]	Clerk key
0 or 9999		PLU Key

3. To cancel function key.

Enter key code to cancel and set Function Key No. to 0

EX) Key Code = 42
Function Key id = 0

If you cancel function key, you can use it as Speed key.

P1880 PGM	01-01
Key [42]	F [0]

2.11 Report

2.11.1 Introduction

X mode is used to read (i.e. print and display) sales data. There are variety of reports that you can generate from X mode. Each of these reports is kept in two separate counters or “books” called X1 and X2. The X1 and X2 reports allow you to print reports at any time for either of the reporting periods. You can use X1 reports to see current daily totals and X2 reports to see current weekly totals. The time period combination you chose is completely dependent upon how you use Z1 and Z2.

Remember that you can generate as many X reports as you would like because X mode does NOT clear any sales data.

2.11.2 Report Menu (Menu code 1600)

(MENU → 6. Report)

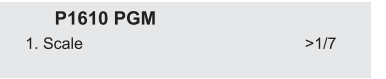
P1600 PGM 1. X1 Report	>1/5
P1600 PGM 2. Z1 Report	>2/5
P1600 PGM 3. X2 Report	>3/5
P1600 PGM 4. Z2 Report	>4/5
P1600 PGM 5. Clear All	>5/5

No.	Submenus	Description
1	X1 Report	Print and display sales data of period 1
2	Z1 Report	Print, display and clear sales data of period 1
3	X2 Report	Print and display sales data of period 2
4	Z2 Report	Print, display and clear sales data of period 2
5	Clear All	Clear all reports of period 1 and 2

2.11.3 X1/X2 Report (Menu code 1610/1630)

(MENU → 6. Report → 1. X1 Report / → 3. X2 Report)

There are 7 detailed reports.

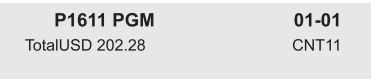


No	Submenus	Description
1	Scale	Print and display scale sales report
2	PLU	Print and display PLU sales report
3	Misc. PLU	Print and display Misc. PLU sales report
4	Group	Print and display group sales report
5	Department	Print and display department sales report
6	Hourly	Print and display hourly sales report
7	Clerk	Print and display clerk sales report

2.11.4 X1/X2 Scale Sales Report (Menu code 1611/1613)

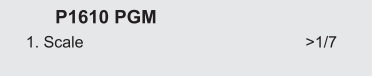
(MENU → 6. Report → 1. X1 Report /3. X2. Report → 1. Scale)

If you press “1” key on X1/X2 Report menu screen, scale sales report is shown on the display.



To print this report, press “TEST” key.

To exit this menu, press the “ESC” key.



▶ Sample - Scale Report

```
X 1   S C A L E   R E P O R T
  AUG-23-04(MON)  09:46:36 AM
  Last Reset
  AUG-16-04(MON)  03:33:14 PM
=====================================================
  SCALE #01
-----------------------------------------------------
  TOTAL COUNT                 267
  TOTAL PRICE            $ 5693.70

  VOID COUNT                    3
  VOID PRICE               $ 27.30
  REPACK COUNT                  0
  REPACK PRICE              $ 0.00
  OVERRIDE COUNT                0
  OVERRIDE PRICE            $ 0.00
  DISCOUNT COUNT                0
  DISCOUNT PRICE            $ 0.00
  PREPACK COUNT                 1
  PREPACK PRICE             $ 3.05
  RETURN COUNT                  0
  RETURN PRICE              $ 0.00
  NO SALE OPEN COUNT            0

  PAY SUMMARY
    CASH           26    $ 1242.70
    PIN/CHIP        2      $ 12.50
    CHECK           2      $ 82.00
    CREDIT CARD     5      $ 84.40
    CREDIT NOTE     2      $ 61.00
    COUPON          3      $ 17.00
    BONUS POINT     0       $ 0.00
    CREDIT SALES    3      $ 60.00
    CHANGE         17     $ 287.46

  TAX SUMMARY
    1:10.00%,Internal     $ 67.39
    2:10.00%,External    $ 242.00
    3: 8.00%,Internal    $ 190.95
    4: 0.00%               $ 0.00
    5: 0.00%               $ 0.00
    6: 0.00%               $ 0.00
    7: 0.00%               $ 0.00
    8: 0.00%               $ 0.00
    9: 0.00%               $ 0.00
-----------------------------------------------------

=====================================================
```

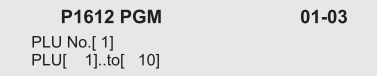
2.11.5 X1/X2 PLU Report (Menu code 1612/1632)

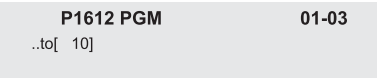
(MENU → 6. Report → 1. X1 Report /3. X2 Report → 2. PLU Report)

Press "2" key on X1/X2 Report menu screen.

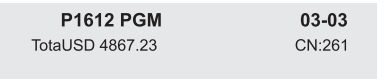
Enter PLU range to check.

EX) dept 1, plu 1 ~10



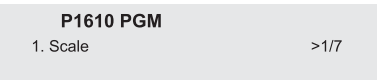


PLU sales report is shown on the display by pressing "PRINT" key.



To print report, press "TEST" key.

To exit this menu, press "ESC" key.



Note: PLU with no sales is not printed.

▶ Sample - PLU Report

```
X 1   P L U   R E P O R T
  AUG-23-04(MON)  09:46:36 AM
  Last Reset
  AUG-16-04(MON)  03:33:14 PM
  Start No:00000, End No:99999
==================================================
  DEPT #01 Default
--------------------------------------------------
  PLU #00001 APPLE
  TRANSACTION COUNT            84
  WEIGHT                74.828 kg
  QUANTITY                     0
  PRICE                 $ 681.79
  TAX PRICE              $ 67.39

  PLU #00002 BANANA
  TRANSACTION COUNT            96
  WEIGHT                 0.000 kg
  QUANTITY                    98
  PRICE                $ 1994.00
  TAX PRICE             $ 196.00

  PLU #00003 ORANGE
  TRANSACTION COUNT            61
  WEIGHT                 0.000 kg
  QUANTITY                    62
  PRICE                $ 1994.00
  TAX PRICE             $ 196.00

                         . . .

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```
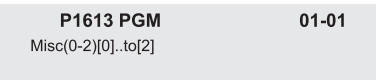
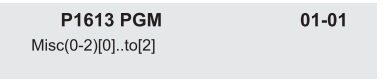

2.11.6 X1/X2 Miscellaneous PLU Report (Menu code 1613/1633)

(MENU → 6. Report → 1. X1 Report /3. Report → 3. MISC. PLU)

Press "3" key on X1/X2 Report menu screen.

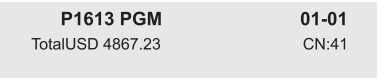


Enter the number to check.
0 : Miscellaneous by-Weight
1 : Miscellaneous by-count
2 : Miscellaneous by-pcs



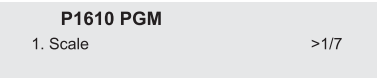
Ex) Misc. by-weight, Misc. by-count, Misc. by-pcs

Sales report is shown on the display by pressing "PRINT" key.



To print report, press "TEST" key.

To exit this menu, press "ESC" key.



Note: Misc. PLU with no sales is not printed.

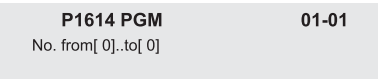
▶ Sample - Miscellaneous Report

```
X 1   M I S C .   R E P O R T
  AUG-23-04(MON)  09:46:36 AM
  Last Reset
  AUG-16-04(MON)  03:33:14 PM
  Start No:0, End No:2
=====================================================
-----------------------------------------------------
  PLU #      Misc By Weight
  TRANSACTION COUNT            84
  WEIGHT                74.828 kg
  QUANTITY                      0
  PRICE                 $ 681.79
  TAX PRICE              $ 67.39

  PLU #      Misc by Count
  TRANSACTION COUNT            96
  WEIGHT                 0.000 kg
  QUANTITY                     98
  PRICE                $ 1994.00
  TAX PRICE             $ 196.00

  PLU #      Misc By PCS
  TRANSACTION COUNT            61
  WEIGHT                 0.000 kg
  QUANTITY                     98
  PRICE                $ 1994.00
  TAX PRICE             $ 196.00
-----------------------------------------------------

=====================================================
```

2.11.7 X1/X2 Group Report (Menu code 1614/1644)

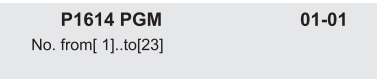
(MENU → 6. Report → 1. X1 Report /X2. Report → 4. Group)

Press "4" key on X1/X2 Report menu screen.

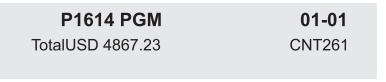


Enter group range to check
If you do not set group in PLU creating,
it is included group 0.

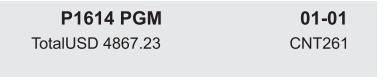
EX) Group 0 ~ Group 23



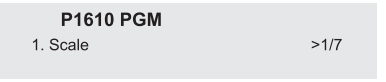
You can see group sales data by pressing
"PRINT" key.



To print report, press "TEST" key.



To exit this menu, press "ESC" key.



Note: If the setting of MENU 1862, "Print All Report within Range" is "No", the group with no sales is not printed. But if "Yes", all group sales data within the range is printed.

▶ Sample - Group Report

```
X 1   G R O U P   R E P O R T
  AUG-23-04(MON)  09:46:36 AM
  Last Reset
  AUG-16-04(MON)  03:33:14 PM
  Start No:00, End No:99
==================================================
  GROUP #00 NO Assigned PLU Group
--------------------------------------------------
  TOTAL COUNT                276
  TOTAL PRICE            $5993.70

  PREPACK COUNT                1
  PREPACK PRICE            $ 3.05
--------------------------------------------------

  GROUP #01 Vegetable
--------------------------------------------------
  TOTAL COUNT                276
  TOTAL PRICE            $5993.70

  PREPACK COUNT                1
  PREPACK PRICE            $ 3.05
--------------------------------------------------

  GROUP #02 Fruit
--------------------------------------------------
  TOTAL COUNT                276
  TOTAL PRICE            $5993.70

  PREPACK COUNT                1
  PREPACK PRICE            $ 3.05
--------------------------------------------------

                         . . .

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```
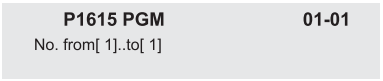

2.11.8 X1/X2 Department Sales Report (Menu code 1615/1635)

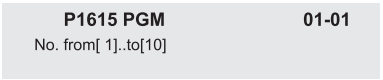
(MENU → 6. Report → 1. X1 Report /3.X2 Report → 5. Department)

Press "5" key on X1/X2 Report menu screen.

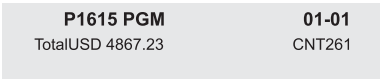


Enter department range to check.

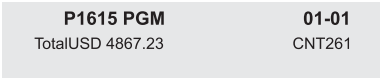
EX) dept 1 ~ dept 10



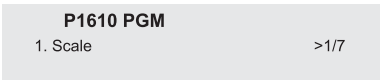
You can see department sales data by pressing "PRINT" key.



To print report, press "TEST" key.



To exit this menu, press "ESC" key.



Note: If the setting of MENU 1862, "Print All Report within Range" is "No", the department with no sales is not printed. But if "Yes", all group sales data within the range is printed.

▶ Sample - Department Report

```
X 1   D E P A R T M E N T   R E P O R T
  AUG-23-04(MON)  09:46:36 AM
  Last Reset
  AUG-16-04(MON)  03:33:14 PM
  Start No:01, End No:99
=======================================================
  DEPT #01 Default
-------------------------------------------------------
  TOTAL COUNT                274
  TOTAL PRICE              $5993.70

  PREPACK COUNT                1
  PREPACK PRICE              $ 3.05
  RETURN COUNT                 0
  RETURN PRICE               $ 0.00
-------------------------------------------------------

  DEPT #02 MEET
-------------------------------------------------------
  TOTAL COUNT                274
  TOTAL PRICE              $5993.70

  PREPACK COUNT                1
  PREPACK PRICE              $ 3.05
  RETURN COUNT                 0
  RETURN PRICE               $ 0.00
-------------------------------------------------------

  DEPT #03 FISH
-------------------------------------------------------
  TOTAL COUNT                274
  TOTAL PRICE              $5993.70

  PREPACK COUNT                1
  PREPACK PRICE              $ 3.05
  RETURN COUNT                 0
  RETURN PRICE               $ 0.00
-------------------------------------------------------

                         . . .

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```
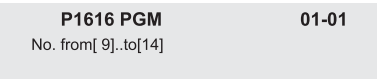

2.11.9 X1/X2 Hourly Sales Report (Menu code 1616/1636)

(MENU → 6. Report → 1. X1 Report /3.X2 Report → 6. Hourly)

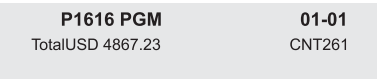
Press "6" key on X1/X2 Report menu screen.

Enter time to check.

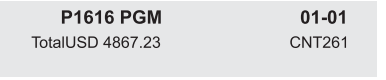
EX) AM 9 hour ~ PM 2 hour



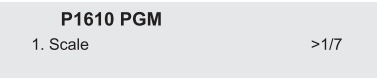
You can see hourly sales data by pressing "PRINT" key.



To print report, press "TEST" key.



To exit this menu, press "ESC" key.



Note: If the setting of MENU 1862, "Print All Report within Range" is "No", the hour with no sales is not printed. But if "Yes", all group sales data within the range is printed.

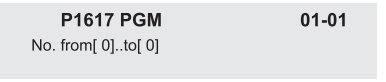
▶ Sample - hourly Report

```
X 1   H O U R L Y   R E P O R T
  AUG-23-04(MON)  09:46:36 AM
  Last Reset
  AUG-16-04(MON)  03:33:14 PM
  Start No:00, End No:23
================================================
  HOUR #10
------------------------------------------------
  TOTAL COUNT                274
  TOTAL PRICE              $5993.70

  PREPACK COUNT                1
  PREPACK PRICE              $ 3.05
------------------------------------------------

  HOUR #11
------------------------------------------------
  TOTAL COUNT                274
  TOTAL PRICE              $5993.70

  PREPACK COUNT                1
  PREPACK PRICE              $ 3.05
------------------------------------------------

  HOUR #13
------------------------------------------------
  TOTAL COUNT                274
  TOTAL PRICE              $5993.70

  PREPACK COUNT                1
  PREPACK PRICE              $ 3.05
------------------------------------------------

                          . . .

================================================
```

2.11.10 X1/X2 Clerk Sales Report (Menu code 1617/1637)

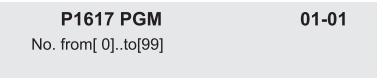
(MENU → 6. Report → 1. X1 Report /3.X2 Report → 7. Clerk)

Press "7" key on X1/X2 Report menu screen.

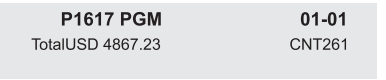


Enter clerk range to check.

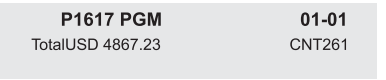
EX) clerk 0 ~ clerk 99



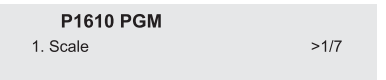
You can see clerk sales data by pressing "PRINT" key.



To print report, press "TEST" key.



To exit this menu, press "ESC" key.



Note: If the setting of MENU 1862, "Print All Report within Range" is "No", the clerk with no sales is not printed. But if "Yes", all group sales data within the range is printed.

▶ Sample - Clerk Report

```
X 1   C L E R K   R E P O R T
  AUG-23-04(MON)  09:46:36 AM
  Last Reset
  AUG-16-04(MON)  03:33:14 PM
  Start No:00, End No:99
==================================================
  CLERK #00 MANAGER
--------------------------------------------------
  TOTAL COUNT                 267
  TOTAL PRICE           $ 5693.70

  VOID COUNT                    3
  VOID PRICE              $ 27.30
  REPACK COUNT                  0
  REPACK PRICE             $ 0.00
  OVERRIDE COUNT                0
  OVERRIDE PRICE           $ 0.00
  DISCOUNT COUNT                0
  DISCOUNT PRICE           $ 0.00
  PREPACK COUNT                 1
  PREPACK PRICE            $ 3.05
  RETURN COUNT                  0
  RETURN PRICE             $ 0.00
  NEGATIVE COUNT                0
  NEGATIVE PRICE           $ 0.00
  NO SALE OPEN COUNT            0

  PAY SUMMARY
    CASH          26    $ 1242.70
    PIN/CHIP       2      $ 12.50
    CHECK          2      $ 82.00
    CREDIT CARD    5      $ 84.40
    CREDIT NOTE    2      $ 61.00
    COUPON         3      $ 17.00
    BONUS POINT    0       $ 0.00
    CREDIT SALES   3      $ 60.00
    CHANGE        17     $ 287.46
--------------------------------------------------

  CLERK #01 CLERK
--------------------------------------------------
  TOTAL COUNT                 267
  TOTAL PRICE           $ 5693.70
                          . . .
--------------------------------------------------

  CLERK #02 AHN
--------------------------------------------------
  TOTAL COUNT                 267
  TOTAL PRICE           $ 5693.70
                          . . .
--------------------------------------------------

==================================================
```

2.11.11 Z1/Z2 Report (Menu code 1620/1640)

(MENU → 6. Report → 2. Z1 Report / 4. Z2 Report)

If you select menu code 1620, you will see following screen.

P1621 PGM	01-01
TotalUSD 6429.48	CNT296

If you want to print and clear the data, press TEST key. The scale shows following screen.

P1621 PGM	01-01
Sure?[N]	CNT296

To print and clear, press “1” key. The scale shows following screen.

P1621 PGM	01-01
Sure?[Y]	CNT296

When printing is done, Z1 data is cleard and exit this menu.
Sales data is same with X1 report

P1621 PGM	01-01
Clear PLU Report	CNT296

P1621 PGM	01-01
Clear Sub Report	CNT296

Note 1: If the setting of PARAMETER 598, “Print when Z Report clear” is “No”, you cannot print Z Report.

P1620 PGM	
1. Scale	>1/7

Note 2: If the setting of PARAMETER 595 “Individual clear(Z report)” is “Yes”, you can clear Scale, PLU, Misc. PLU, Group, Department, Hourly, Clerk data is cleared separately. But if you use this function, each report is not same with scale report.

2.11.12 Clear All Report (Menu code 1650)

(MENU → 6. Report → 5. Clear All)

If you select menu code 1650, you will see following screen.

```
P1650 PGM                    01-01
Sure?[ N ]
```

To clear all report, press 1 key. If you do not want to clear, press 0 or ESC key.

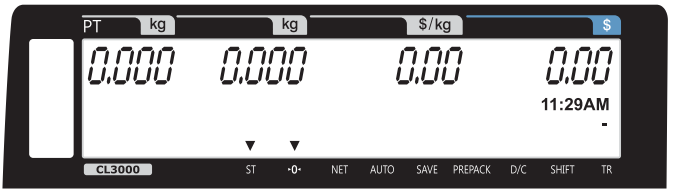
```
P1600 PGM
1. X1 report                 >1/5
```

3. SALES OPERATION

3.1 Basic Operation

This chapter explains basic operation of scale, such as how to set zero, tare, call up a PLU and override unit price in CL3000 series. In order to make sales transaction user should access REGISTRATION mode.

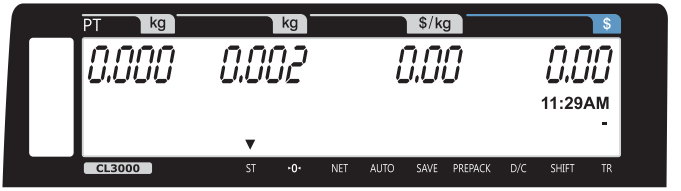
■ How to access REGISTRATION MODE: Turn ON the scale.



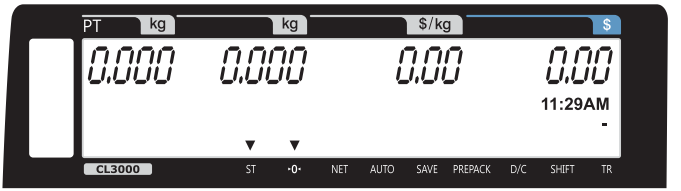
3.2 Zero

You can use the ZERO key to correct for a deviation from zero as long as there are no PLUs or MISC PLUs called-up. The weight can sometimes drift from zero due to debris on the platter, leaving objects on the platter for excessive periods of time, or other environmental factors. To correct this, remove everything from the platter and press the ZERO key when the stable indicator "▼" is on. Below is a possible zero drifted state that should be corrected by simply pressing the ZERO key.

① EX) Initial weight displayed → 0.002.



② Press "ZERO" key to set initial zero.

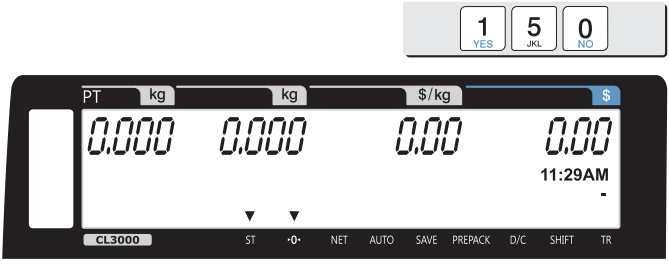


3.3 Tare

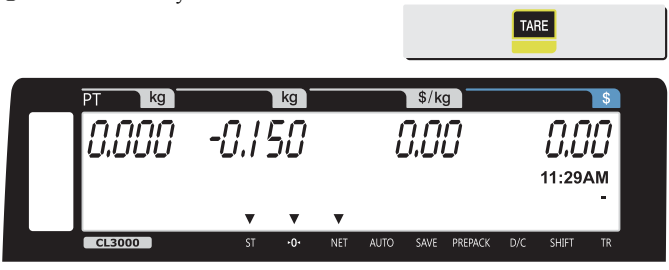
You can enter tare weights as long as there are no PLUs or MISC PLUs called-up.
If you need to temporarily override a PLU's tare weight, you must enter the tare weight first and then call-up that PLU. There are two ways to enter a tare weight and both ways will only work if there is no PLU or MISC PLU called-up.

3.3.1 Manual Tare Entry 1

① Enter a tare weight manually by pressing the numeric keys
EX) 150 g

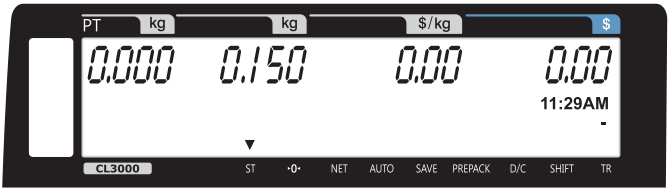


② Press "TARE" key.

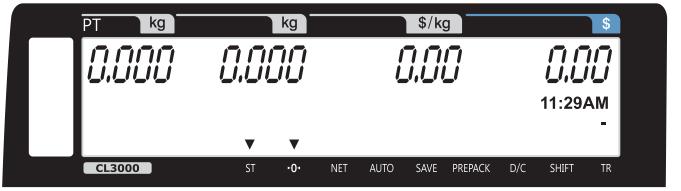


3.3.2 Weighed Tare Entry

① Place the empty container on the platter making sure that the weight is stable
EX) 0.15 kg

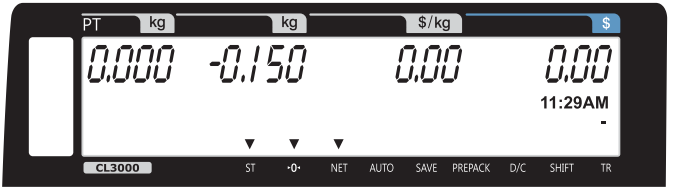


② Press “TARE” key.

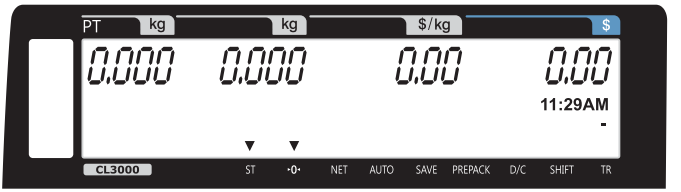


3.3.3 How to Clear Tare

① Remove the item from the platter

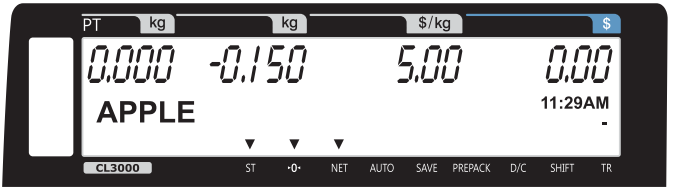


② Press “TARE” key again.



3.3.4 Preset Tare

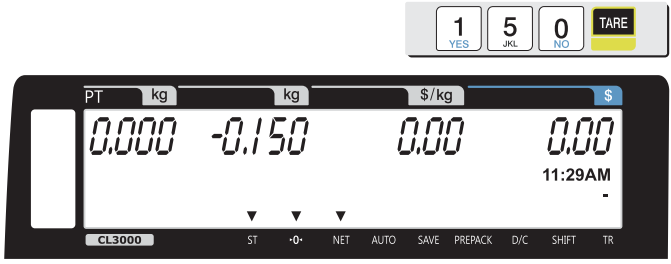
① Call up a PLU including tare (weight of container).
EX) PLU #3’s tare =150 g



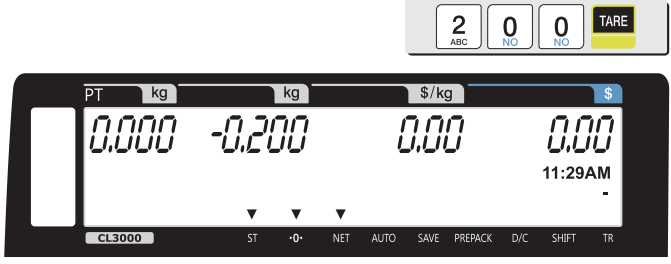
② Clear PLU#3, then tare is also automatically cleared.

3.3.5 Successive Tare

① Enter tare (weight of container) using numeric keys.
EX) 150 g



② Enter the weight of container using numeric keys.
EX) 200 g

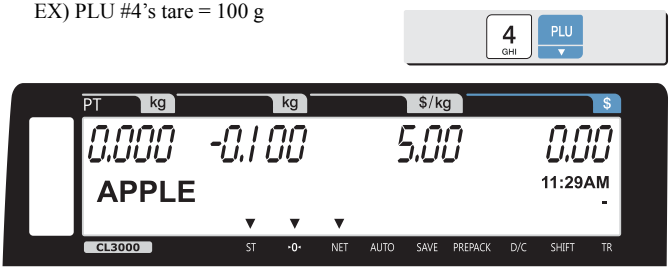


③ Press “TARE” key after removing item and container from the platter.

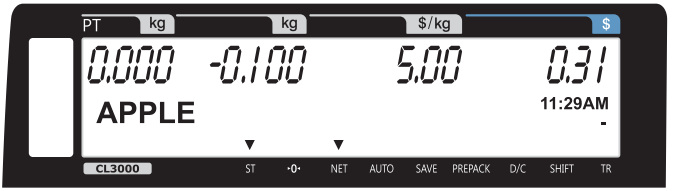
Note: Parameter 605 “Accumulation Tare” and parameter 606 “Subtraction Tare” must be set.

3.3.6 Tare Override

① Call up a PLU including tare (weight of container).
EX) PLU #4’s tare = 100 g



② Place the container (Weight of container must be greater than weight data input) for TARE OVERRIDE.



③ Pressing “TARE” key overrides current PLU tare (weight of container) and the weight becomes “O”.

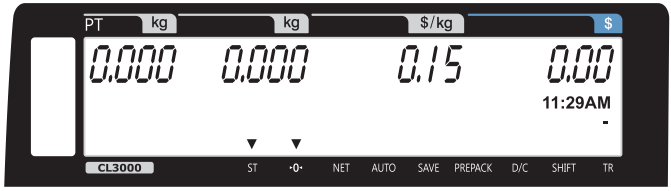
Note: Parameter “603 PLU Tare Override” must be set.
To use OVERRIDE key, you have to set this key in menu 1880 of program mode.
(See chapter 2.10.22)

3.4 Calling Up a PLU

There are two ways to call up a PLU by using numeric key and preset key.

3.4.1 Using Numeric Key

① Enter PLU number by using numeric keys and press “PLU” key.
EX) PLU No. 15



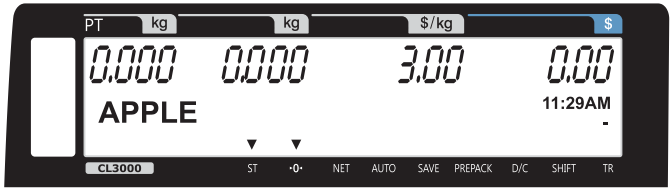
Note: Even though you do not press PLU key after entering a PLU number, PLU will be displayed depending on the setting time. It takes time to call up a PLU depending on the setting of parameter, 586 “Indirect PLU Call Time”..

3.4.2 Using Speed Key

To call-up PLU number 79, and you programmed Speed key #5 to be PLU number 79, then you need to press the following key: Speed key #5.

Note: You have to set Speed key in program mode (Menu 1160 on chapter 2.6)

① Press a speed key (which is save as a PLU).
EX) PLU #79=Apple, Speed key #5



3.5 Override (FOR key)

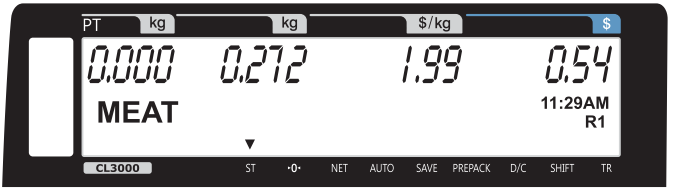
The OVERRIDE key is used to temporarily change the pricing of priced PLUs.

- ☞ If you set program menu 1873(Save unit price change), changed priced is saved after printing a label.
- ☞ If Para 534 : Default UnitWeight is different from unit weight of PLU, “Multiple Unit PLU” message can be occurred.

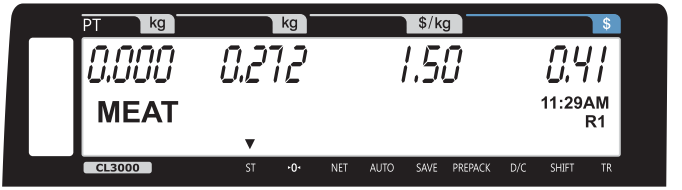
3.5.1 By-Weight PLU

- PLU# 1.MEAT (PLU Type : By weight, Unit Price : 1.99$).

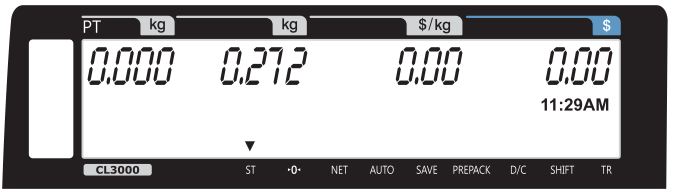
① Press OVERRIDE key.



② Enter new unit price.



③ Press PRINT key to print label.

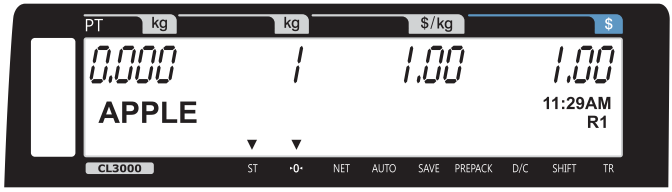


Note: To use OVERRIDE key, you have to set this key in menu 1880 of program mode. (See chapter 2.10.22)

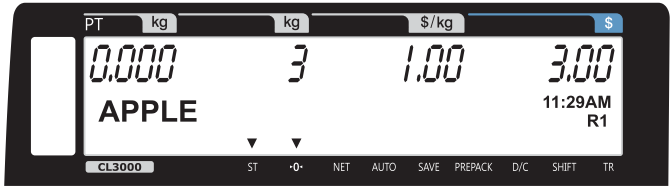
3.5.2 By-Count PLU

- PLU# 2.APPLE (PLU Type : By count, Unit Price : 1.00$).

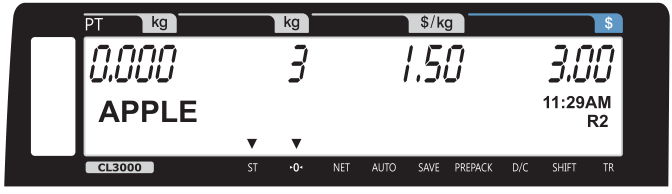
① Press OVERRIDE key.



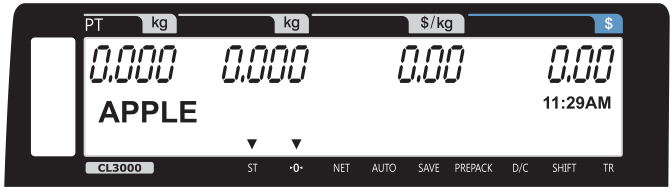
② Enter QUANTITY and press FOR key.



③ Enter new unit price.



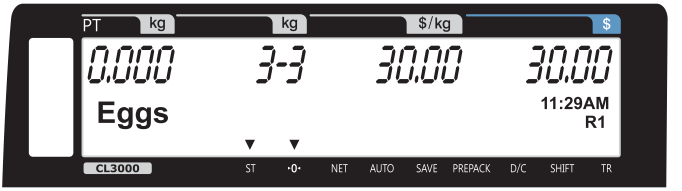
④ Press PRINT key to print label.



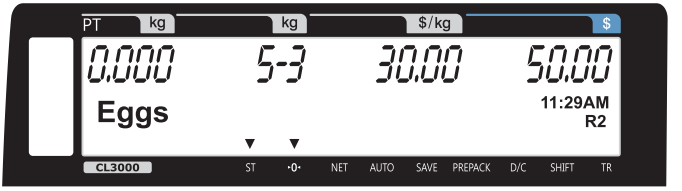
3.5.3 By-PCS PLU

- PLU# 3.Eggs (PLU Type : By PCS, Pieces : 3, Unit Price : 30.00$).

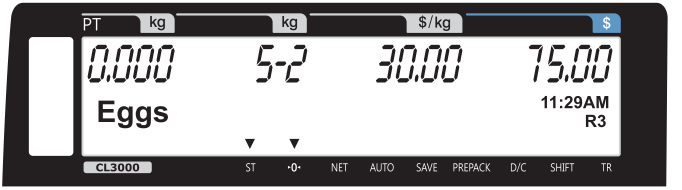
① Press OVERRIDE key.



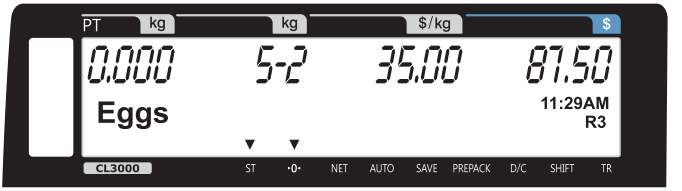
② Enter QUANTITY and press FOR key.



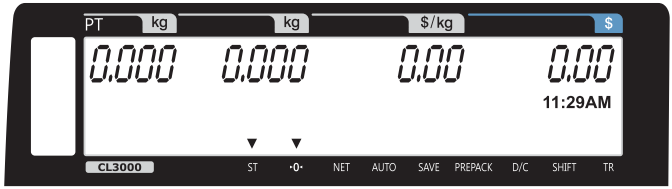
③ Enter PIECES and press FOR key



④ Enter new unit price.



⑤ Press PRINT key to print label.



Note: - If you set program menu 1873(Save unit price change), changed priced is saved after printing a label.

- If you set parameter 501(Ride Second Position), you can change unit price of by-count PLU and pcs of by-pcs PLU directly.

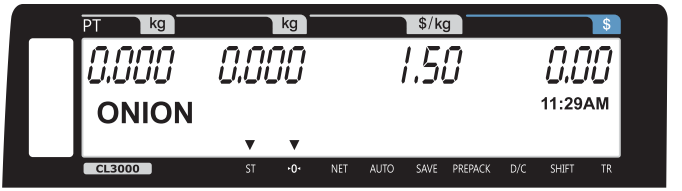
- Discount function is not available when you use OVERRIDE key.

3.6 Sales Operation

3.6.1 Weighed Item Operation

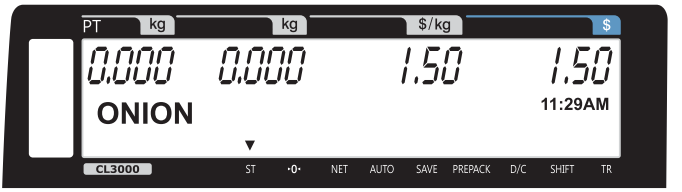
EXAMPLE:
- PLU No : 29, PLU Name: ONION, PLU type : by weight, Unit Price : 1.50$,
- Sales Weight =1.0kg

① Press Speed key to call up a PLU.

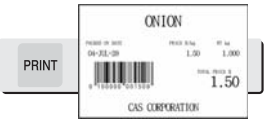


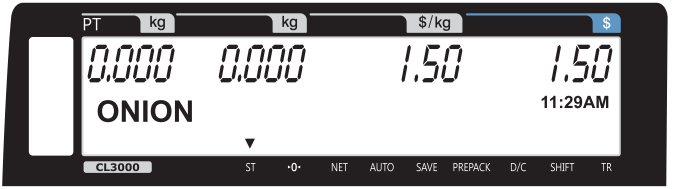
◆ User may call up a PLU by pressing speed key or numeric key. Please refer to chapter 3.4 for details..

② Place the item(s) on the platter.

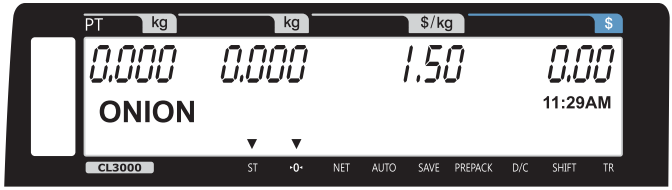


③ Press “PRINT” key to print a label and complete current transaction. This transaction(s) is saved in the sales record.





④ Remove the item(s) from the platter.



* Total Price= Sales weight X Unit price

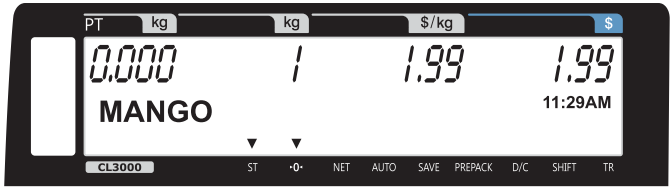
Note: - In “SAVE” & “Prepack” mode the PLU is not automatically cleared when you remove the item from the platter.

- If you set “PLU clr Aft sale(WT.OnTray)” to “Y” in Menu 1873, PLU is cleared even though you do not remove the item from the platter. (See chapter 2.10.21 for menu 1873)

3.6.2 By Count Item

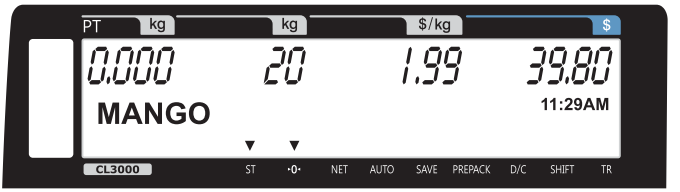
EXAMPLE:
- PLU No : 31, PLU Name: MANGO, PLU type = By-Count, Unit Price: 1.99$,
- Sales 20 pieces.

① Press numeric key(s) to call up a PLU.



◆ User may call up a PLU by pressing speed key or numeric key. Please refer to chapter 3.4 for details.

② Enter the number of pieces.
EX) 20 pieces.



③ Press "PRINT" key to print a label and complete current transaction. This transaction(s) is saved in the sales record.

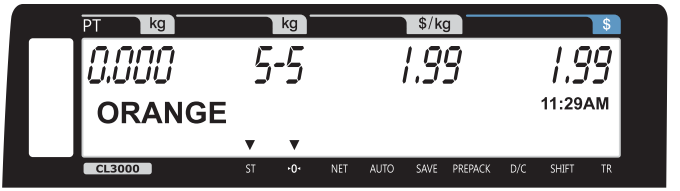
* Total Price= Piece(s) X Unit price

Note: In "SAVE" & "Prepack" mode, the PLU called up is not automatically cleared when you remove the item from the platter.

3.6.3 By PCS Item

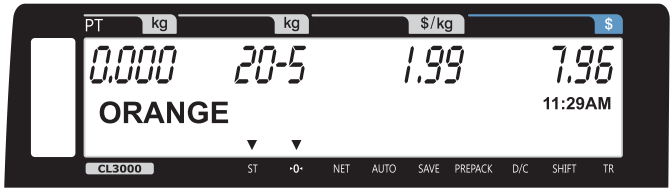
EXAMPLE:
- PLU No : 30, PLU Name: ORANGE, PLU type = By PCS, PIECES: 5, Unit Price : 1.99$
- Sales = 20 pieces. [QUANTITY item]

① Press numeric key(s) to call up a PLU.



◆ User may call up a PLU by pressing speed key or numeric key. Please refer to page 143 for details.

② Enter QUANTITY [the number of Pieces].
EX) 20 pieces.



③ Press “PRINT” key to print a label and complete current transaction. This transaction(s) is saved in the sales record.

* Total Price= QUANTITY X [Unit price / PIECES]

Note: In “SAVE” & “Prepack” mode the PLU is not automatically cleared when you remove the item from the platter.

3.7 Discount

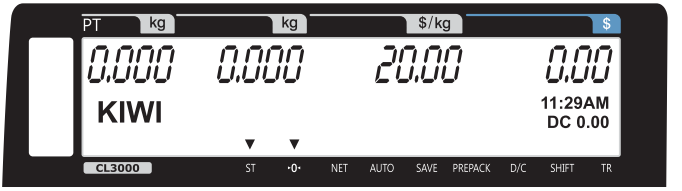
Before using discount function, you have to set discount data in menu 1130 of program mode. Discount is different depending on PLU type. (For details, see chapter 2.4.1)

3.7.1 Unit Price Discount - By Weight PLU

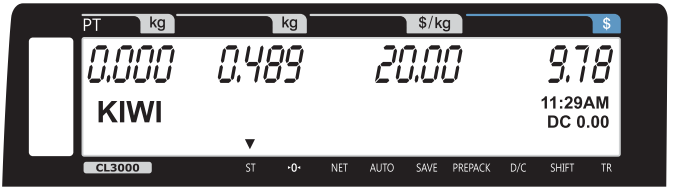
EXAMPLE:
- PLU# 29=Water Melon (By-Weight PLU), Unit price=20.00

• 1st Target of Discount : “Discount amount from unit price”=0.50 for weight ≥ 0.500.
• 2nd Target of Discount : “Discount amount from unit price”=1.00 for weight ≥ 1.000.

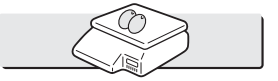
① Call up a PLU.

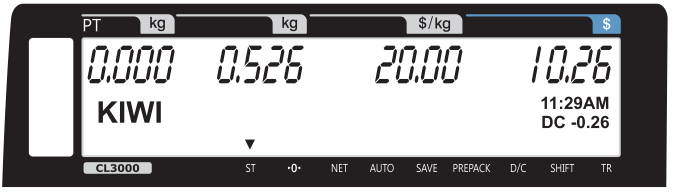


② Place an item on the platter. In this case, discount is not available because the weight of this item(0.489 kg) is lower than 1st target(0.500 kg).

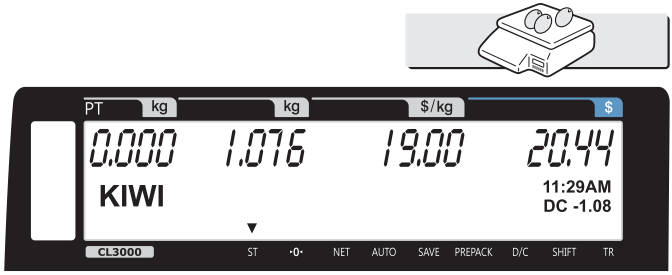


③ Place an item on the platte. In this case, discount is possible because the weight of item(0.526 kg) is greater than 1st target(0.500kg) therefore the total price is 10.26.

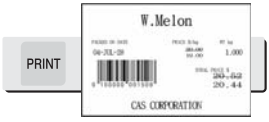




④ Place items on the platter. In this case, discount is possible because the weight of item (1.076 kg) is greater than 1st target(0.500 kg) therefore the total price is 20.44$.



⑤ Press the PRINT key.
Markdown(~~STRIKE THROUGH~~) is printed on label as figure.



Note: - You can set four markdown information in menu 1720 of program mode. (See chapter 2.9.3)

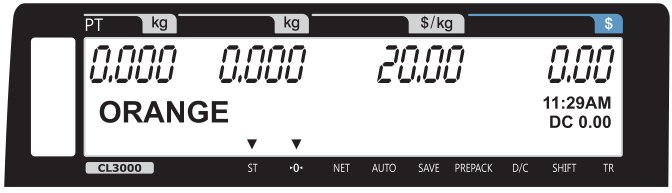
- If you set “display discount info.” to “Y” in menu 1871 of program mode, you can see total price and discount information on the display. (See chapter 2.10.21)

3.7.2 % Unit Price Discount - By Weight PLU

EXAMPLE:
- PLU# 29=ORANGE (By-Weight PLU), Unit price=20.00

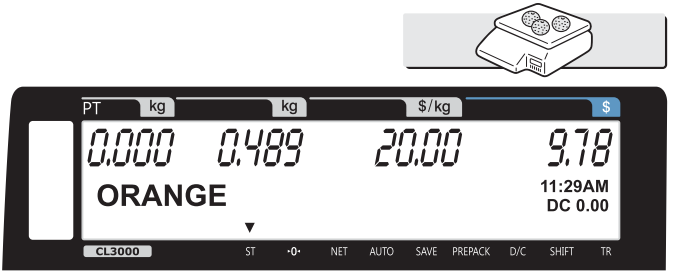
- 1st Target of Discount : “10 % off from unit price” for sales weight ≥ 0.500 kg.
- 2nd Target of Discount : “20 % off from unit price” for sales weight ≥ 1.000 kg.

① Call up a PLU.

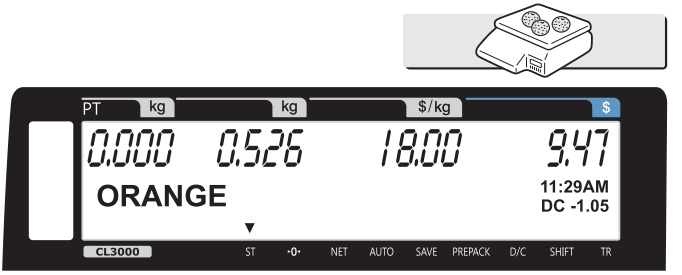


* User may call up a PLU by pressing speed key or numeric key. Please refer to chapter 3.4 for details.

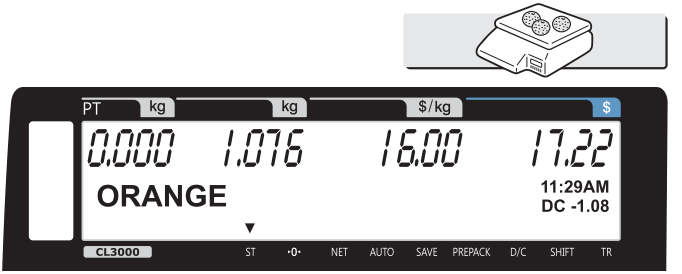
② Place an item on the platter. In this case, discount is not available because the weight of this item(0.489 kg) is lower than 1st target(0.500 kg).



③ Place items on the platter. In this case, the weight of items(0.526 kg) is greater than 1st target(0.500 kg) therefore you can have 10% discount. (Total price is 9.47)



④ Place items on the platter. In this case, the weight of items(1.076kg) is greater than 2nd target(1.000kg) therefore you can have 20% discount. (Total price is 17.22)



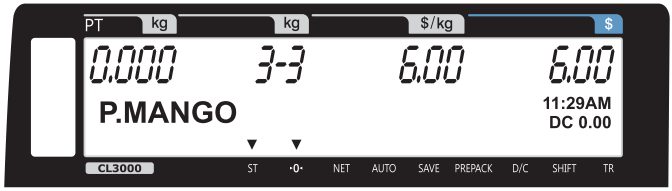
⑤ Press the PRINT key.
Markdown(~~STRIKE THROUGH~~) is printed on label as figure.

3.7.3 Unit Price Discount - By PCS PLU

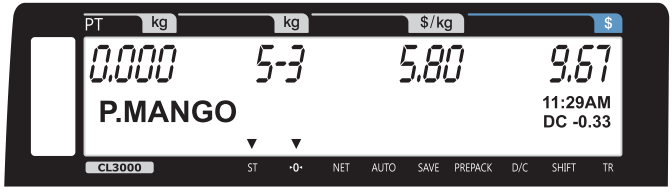
EXAMPLE 2:
- PLU# 30=PREMIUM MANGO, 3 pieces FOR 6.00

• 1st Target of Discount: “Discount amount from unit price”=0.20 for sales ≥ 5 pieces.
• 2nd Target of Discount: “Discount amount from unit price”=0.50 for sales ≥ 10 pieces.

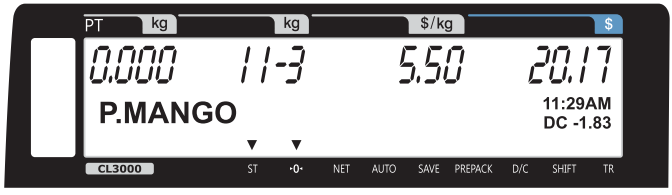
① Call up a PLU.



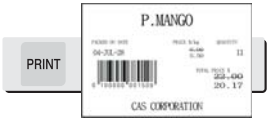
② Enter quantity. In this case, 5 is greater than 1st Target (5), unit price(0.20$) is discounted.



③ Enter quantity. In this case, 11 is greater than 2nd Target (10), unit price(0.50$) is discounted.



④ Press the PRINT key.
Markdown(~~STRIKE THROUGH~~)s printed on label as figure.



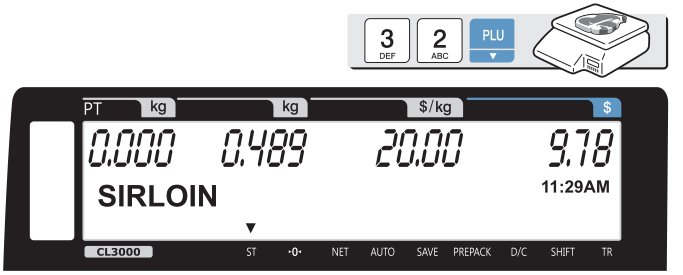
Note: You can set four markdown information in menu 1720 of program mode.
(See chapter 2.9.3)

3.8 Add-Up Transaction

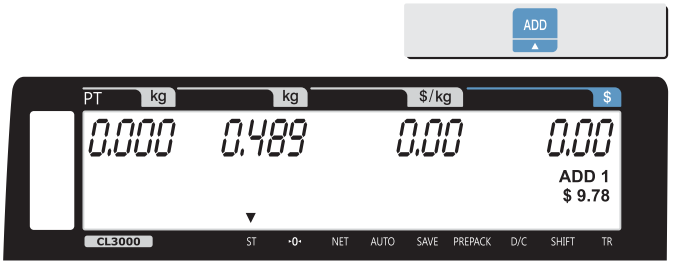
If you press the ADD key instead of the PRINT key, you will initiate the ADD-UP process. You can ADD-UP 100 items maximum.

EXAMPLE 2:
- PLU# 32=SIRLOIN, PLU Type = By-Weight, Unit Price=20.00,
- PLU# 35=T-bone Steak, PLU Type = By-PCS, Pieces=3, Unit Price=6.00

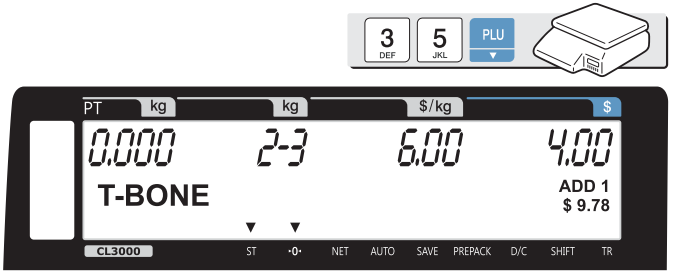
① Call up a PLU and place item on the platter.



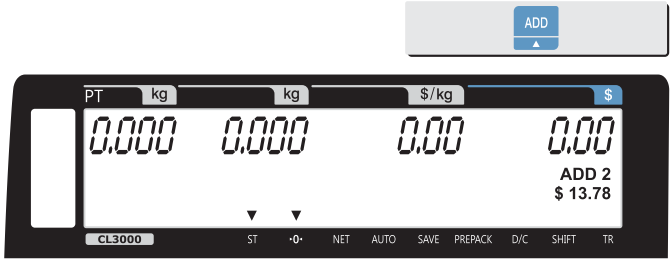
② Press ADD key. PLU is cleared automatically. You will see the display as below.



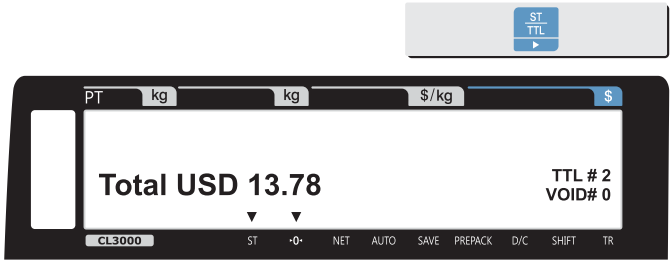
③ Remove item from the platter and call up a PLU.



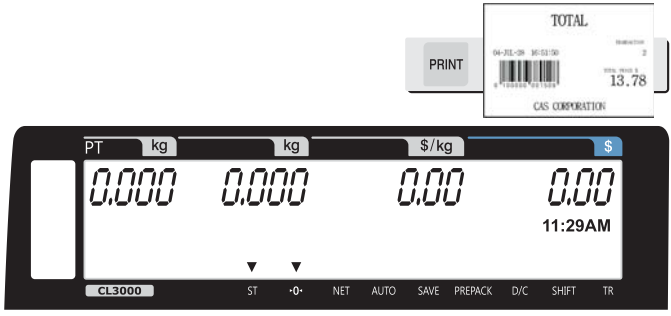
④ Press ADD key. PLU is cleared automatically. You will see the display as below.



⑤ You can repeat the ADD-UP process up to 100 times or you can press the ST/TTL key at anytime to see the grand-total.



⑥ To complete the sale, press the PRINT key. (To repeat the ADD-UP process, press the ESC key.)



Note: - You can press the VOID key to undo the transaction. (See chapter 3.10).
- If you set “Print Item Label” to “Y” in menu 1750 of program mode, label will be printed whenever you press the ADD key. (See chapter 2.9.3)
- Even though you turn off the scale before printing a grand total label, add-up data is not cleared.

3.9 Clerk Operation

There are three clerk modes as below.

▶ Clerk Modes

No.	Clerk Modes	Description
1	No Clerk	Sales clerk does not log in and makes sales using “PRINT” key.
2	Standard Clerk	Generating a standard clerk transaction is the same as any sales mode transaction except that you do NOT press the PRINT key; instead you must press one of the V(Clerk-Speed) keys (1 through 4) You can print total price label depending on the setting.
3	Floating Clerk	Generating a standard clerk transaction is the same as any sales mode transaction except that you do NOT press the PRINT key; instead you must press one of the V(Clerk-Speed) keys (1 through 4) You can print total price label depending on the setting. Sales data is added automatically.

☞ To register clerk, refer to menu code 1850 of program mode. (See chapter 2.10.6)

Assumption

- Clerk should be registered on menu 1850. (See chater 2.10.6)
- Clerk number should be set on menu 1856 to use “V1, V2, V3, and V4” keys (See chapter 2.10.12) If the clerk is not assigned to V1~V4, this clerk has to enter password after pressing V key.
- All clerks can use “V” key.

* Up to 100 transactions are available in Clerk mode
* Sales data is saved in memory.
* If you press PRINT key to complete transaction, grand total price is printed and sales data is cleared from memory.
* If you want to see total price before completing transaction, press the ST/TTL key. To print, press the PRINT key.
* Even though you turn off the scale before printing, sales data is not cleared.
* If you want to print ticket when you log out, press V1, V2, V3 or V4 to log on and press the PRINT key. You can also check total price by pressing ST/TTL key after log on.

Note: - You have to set Clerk log out time in menu 1874 of program mode. (See chapter 2.10.21) If you do not call a PLU and do not operate the scale, time is computed. To set 30 seconds for logout time, enter 300. If you do not want to log out, enter 0.

- When there is no PLU, you can print ticket again by pressing X key (It depends on the setting of parameter 599, Print last ticket)

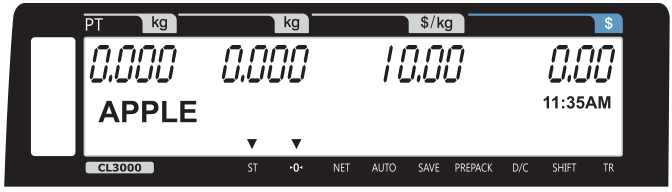
3.9.1 Standard Clerk Operation

Assumption

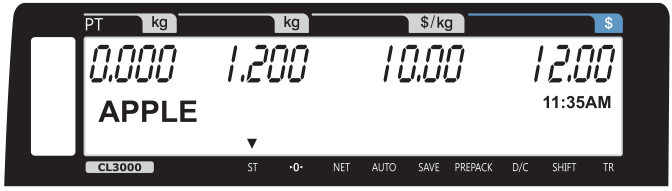
- You have to set “Select Clerk Sale mode” to “2” (Standard Clerk) in menu 1820 of program mode. (See chapter 2.10.3)

EXAMPLE 2:
Clerk No: 2, Clerk Name: Christine, Clerk Key: V1
PLU#1=Apple, Unit Price 10.00, Weight, 1.2 kg
PLU#2=Orange, Unit Price 20.00, Weight, 1.2 kg

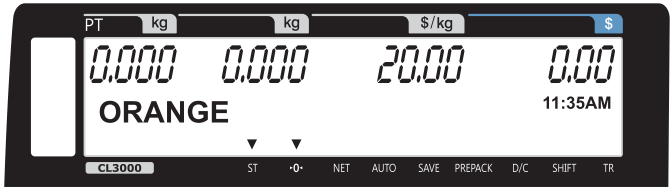
① Call up a PLU.



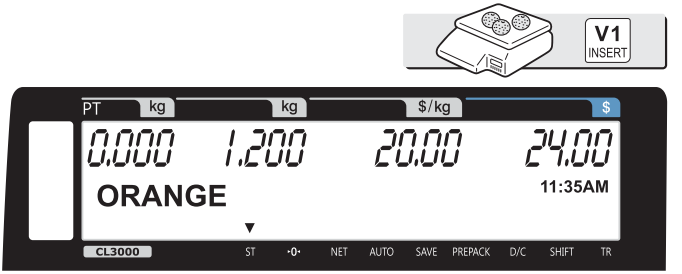
② Place an item and press V1 key. You will get a label automatically.



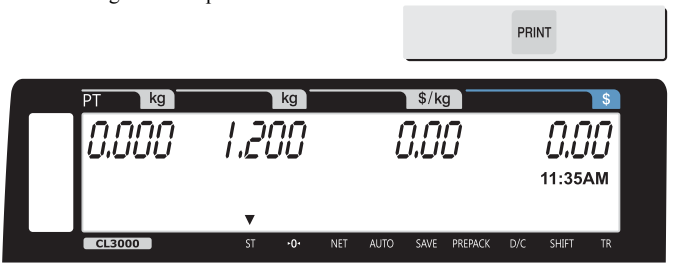
③ Call up a PLU.



④ Place an item and press V1 key. You will get a label automatically.



⑤ Press the PRINT key to complete transaction. If you are in ADD-UP mode, you can have label for grand total price.



Note: - If you are in ADD-UP mode, you can have label for grand total price by pressing PRINT key. When you turn on the scale, this function is not active so you have to press ADD key.

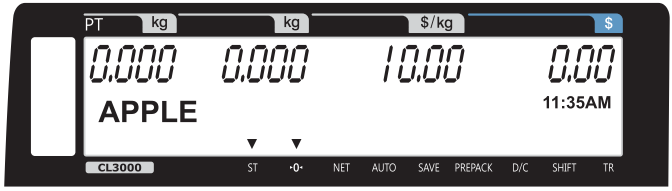
3.9.2 Floating Clerk Operations

Assumption

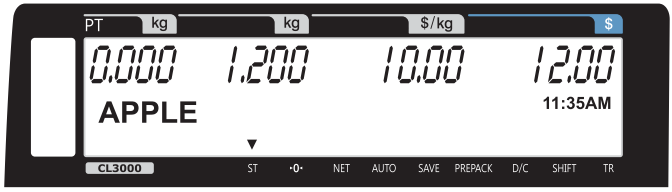
- You have to set “Select Clerk Sale mode” to “3” (Floating Clerk) in menu 1820 of program mode. (See chapter 2.10.3)

EXAMPLE :
Clerk No: 2, Clerk Name: Christine, Clerk Key: V1
PLU#1=Apple, Unit Price 10.00.
PLU#2=Orange, Unit Price 20.00

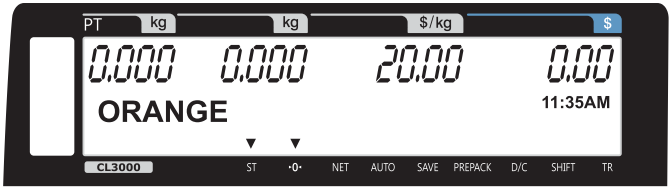
① Call up a PLU.



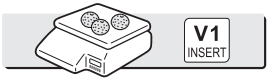
② Place an item on the platter and press the V1 key. This transaction is save to memory.

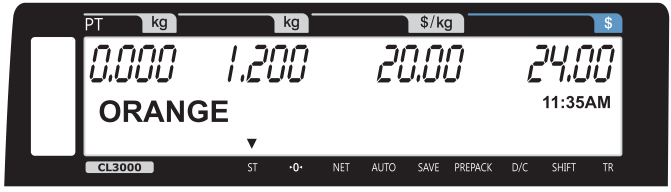


③ Call up a PLU #2.

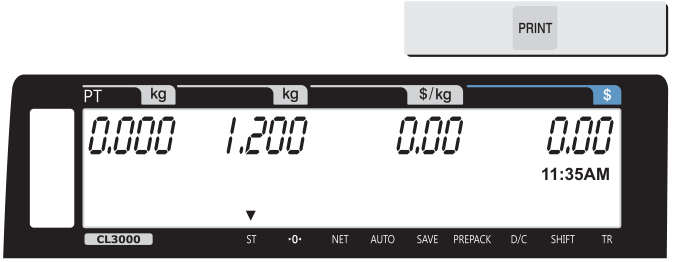


④ Place an item on the platter and press the V1 key. This transaction is saved to memory.





⑤ Press the PRINT key to complete transaction. Grand total price label is printed and sales data is cleared in memory.



Note: - Print mode of floating clerk operation is ticket type as default. If you want to use label type, you have to change setting in menu 1731 of program mode. (See chapter 2.9.5)

- You can set ticket item in menu 1761 of program mode. (See chapter 2.9.15)

3.10 Void

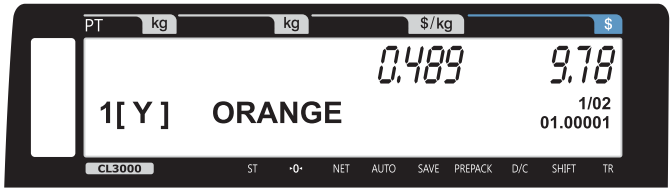
You can press the VOID key to undo transaction in add-up process or floating clerk operation.

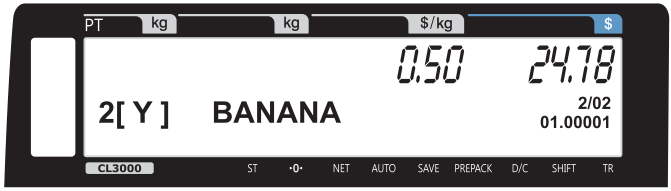
Assumption)

You sold several items

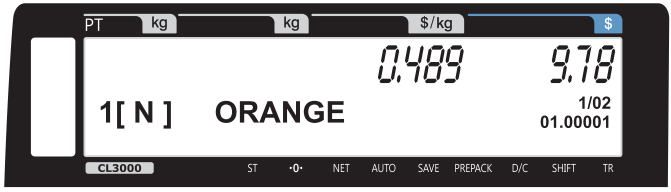
◆ If there is no PLU or price is zero.

① Press the VOID key, you will see following screen.





② To void ORNAGE, enter 0 by pressing numeric key and press the PRINT.

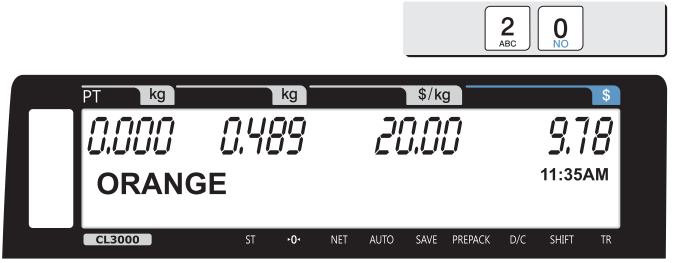


② To finish, press the ESC key

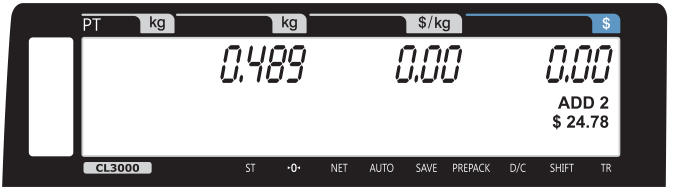
※ You can use the PG UP and PG DOWN keys or the Arrow keys to navigate up and down the list.

◆ If there is same PLU and same price to void

① Place item on the platter



② Press VOID key then this sale is cleared.



※ If price is not same, void list screen is shown on the display automatically.

3.11 Payment & Change

▶Payment

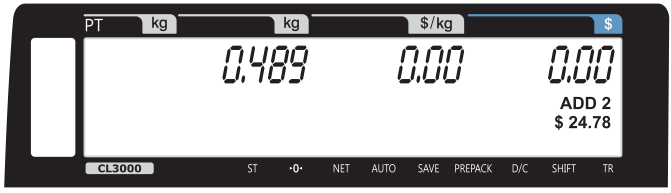
No.	Type
1	Cash
2	Pin/chip
3	Check
4	Credit card
5	Credit note
6	Coupon
7	Bonus point

You can use PAY key in the add-up process or floating clerk operation.

EX) Total price : 15.00 $

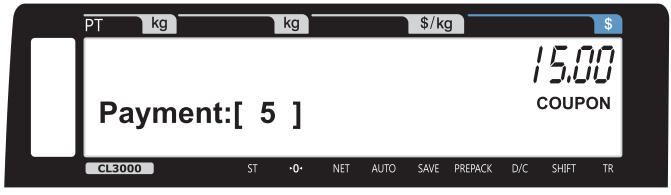
If customer give 6.00 coupon and cash 10.00 $ to clerk

① Press PAY key when there is subtotal price

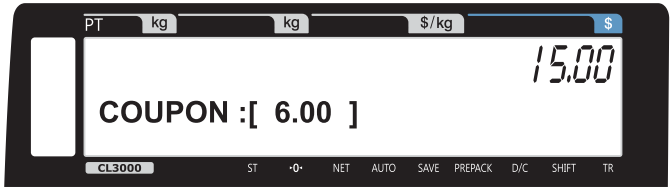


② Select payment type 5(coupon) and press PRINT key.

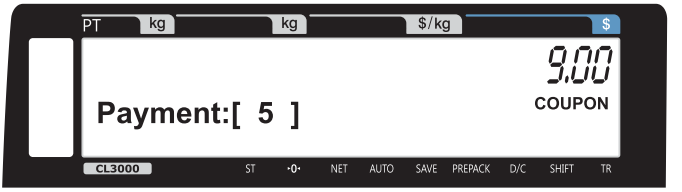
※ See Payment table.



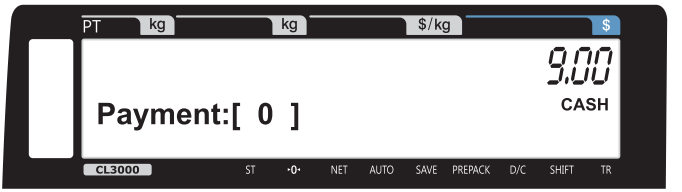
③ Enter 6.00



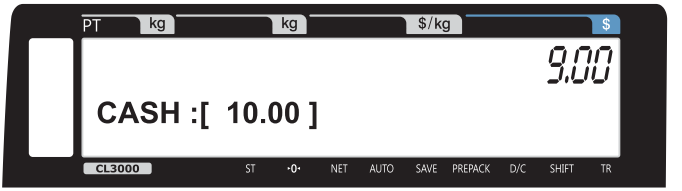
④ Press PRINT key then you can select payment type again.



⑤ Select Payment type (0 cash) and press PRINT key.



⑥ Enter 10.00.



⑦ Press PRINT key. The label is issued.

※ Total price, receive and change is printed.

Note: - You can set print item in menu 1760 of program mode. (See chapter 2.9.14)
- If there is credit, a receipt is printed additionally.

3.12 Return

The RETURN key is used to delete erroneous sale transactions. You can use the RETURN key to undo erroneous sales transactions like pressing the PRINT key inadvertently, selecting and printing the wrong PLU, an inadvertent Auto-Print in Pre-Pack mode, or perhaps adjusting the sales totals for a damaged or ruined package. Whatever the reason, the RETURN function will decrement returned PLU's transaction counter and sales totals by the specified amount.

You need to call-up the PLU that you wish to return by either pressing its corresponding speed key or typing its number.

◆ When the price is zero,

0) By weight PLU : You need to enter the total price and weight that was printed on the return PLU's label

1) By count PLU: You need to enter the total price and quantity that was printed on the return PLU's label

◆ When the price is higher than zero,
Return function is performed by pressing RETURN key

Note: - If you set "Shift key instead return key" to "Y" in menu 1873 of program mode, you cannot use return function. (See chapter 2.10.21)

- If parameter 596 X/Z Report is not set, this function is not operated.

3.13 Prepack Key

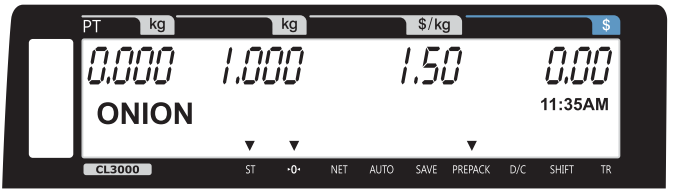
When the scale is in Pre-Pack mode, it prints labels automatically. When it is in MANUAL mode, you must press the PRINT key (or ADD key) to get a label. In Pre-Pack mode, you cannot select AUTO mode. Pre-Pack works like AUTO and SAVE mode except that the weight does not need to return to zero for every auto-print.

Pre-pack mode is very useful in back-room applications. This mode increases productivity by not requiring the user to press the PRINT key for every package. Instead the user can concentrate on weighing, wrapping, and labeling.

This function is only available for by-weight PLU.

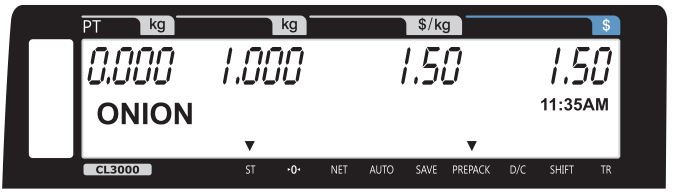
EXAMPLE:
Speed key #1="Onion" Unit price=1.50, Sales Weight=1.0kg,

① Press PREPACK key and call up a PLU

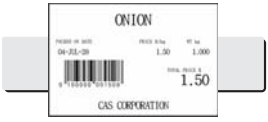


◆ User may call up a PLU by pressing speed key or numeric key.
Please refer to Menu code 1160.

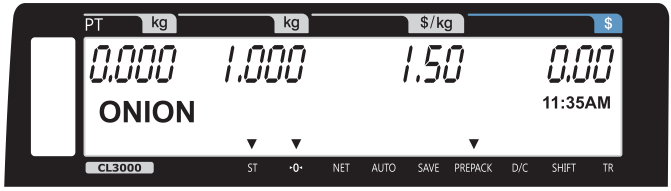
② Place the item(s) on the platter.



③ Label is issued automatically.



④ Remove the item(s) from the platter.



Note: - If the scale is in Prepack mode then it will always auto-print if the Total price is greater than 0.00 and:

1. The weight deviates by an amount greater than or equal to the Parameter 862 setting(Min. weight for sale) and the weight stabilizes at a weight greater than zero.

2. The weight deviates by an amount greater than or equal to the Parameter 861 setting(Auto threshold) and the weight stabilizes at a weight greater than zero.

3.14 X Key

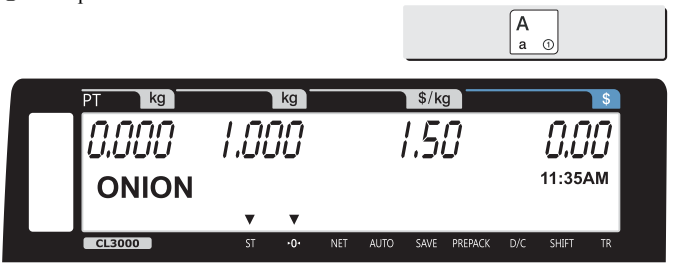
The X key is used to print multiple transactions for the same PLU.
The X key operation is called the Multi-Label function.

3.14.1 By-Weight PLU

Note: If you want to use X key for by-weight PLU, you must set Parameter 582, Use 'X' key (by WT.).

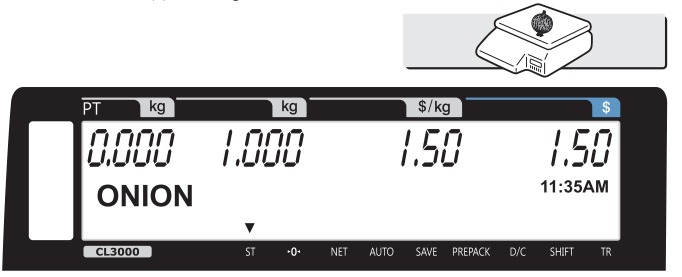
EXAMPLE:
Speed key #1= “Onion” preset key, Unit price=1.50, Sales Weight=1.0kg,

① Call up a PLU

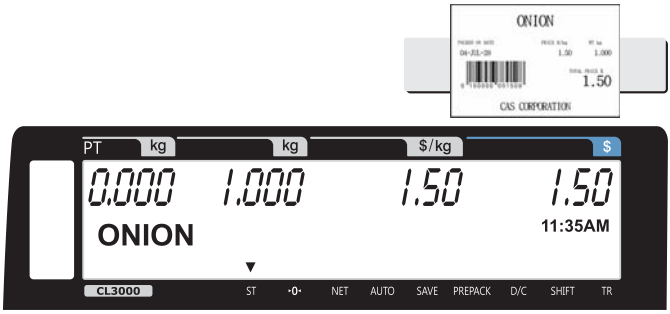


◆ User may call up a PLU by pressing speed key key or numeric key. Please refer to chapter 3.4 for details.

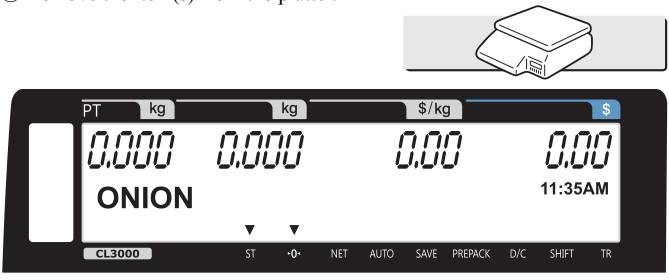
② Place the item(s) on the platter.



③ Type the number of labels you require and press the PRINT key.



④ Remove the item(s) from the platter.



Note: - If you set “Label Prt. w.o Rewind (X Key)” to “Y” in menu 1872 of program mode, the scale does not check peel-off, so you have to press FEED key after printing is done. (See chapter 2.10.21)

- If you set “Use double print(AUTO)” to “Y” in menu 1872 of program mode, you will have two same labels in auto mode.

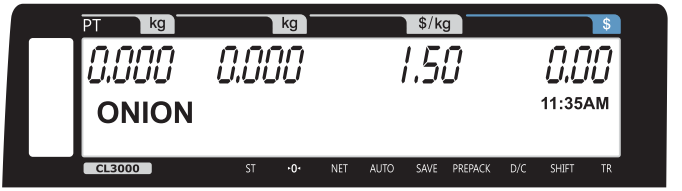
- If you set 2nd label in PLU programming, 2nd label is issued automatically.

3.14.2 Non-Weighed PLU

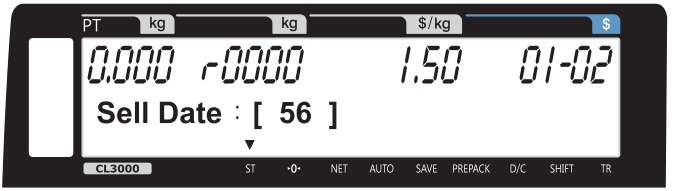
You can use X key for by Count, By PCS PLU without any setting.
The way of using X key is same as by-weight PLU except weighing item.

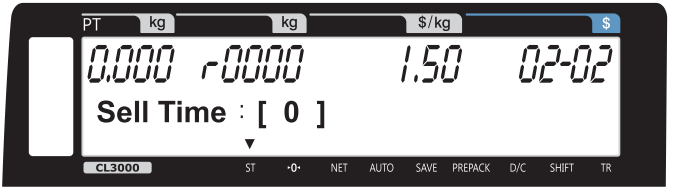
3.15 How to Change Sell By Date/Time

① Call up a PLU

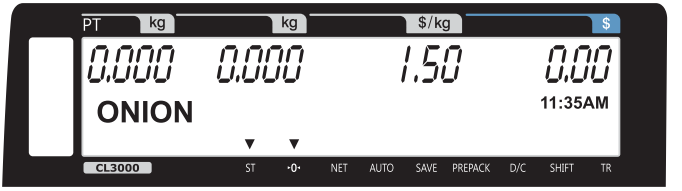


② Press EDIT SELL key to enter both of effective date and time.





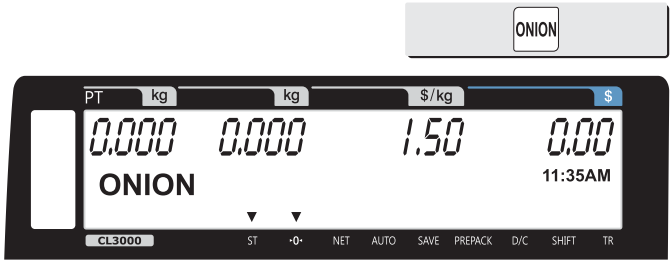
③ Press PRINT key to complete saving.



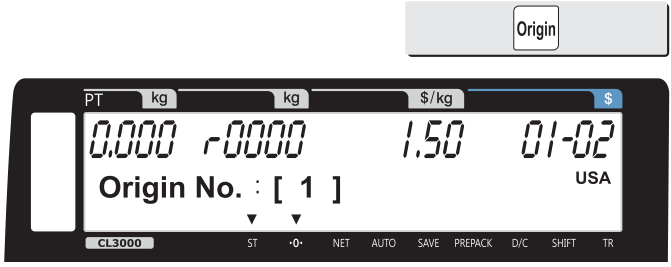
Note: - To use EDIT SELL key, you have to set this key in menu 1880 of program mode.
(See chapter 2.10.22)

3.16 How to Change Origin

① Call up a PLU



② Press ORIGIN key to retrieve one of origin data saved.

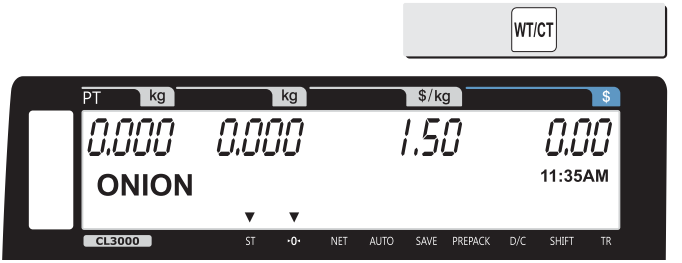


Note: - To use ORIGIN key, you have to set this key in menu 1880 of program mode.
(See chapter 2.10.22)

3.17 How to Change PLU Type

Note: If you set “Save Type change” to “Y” in menu 1873 of program mode, changed PLU type is saved. (See chapter 2.10.21)

① Press “WT/CT” key to change PLU type from By-weight to By-count PLU or vice versa.



☞ If you change by-Weight PLU to by-count PLU, quantity is set 1 and unit price is same.

☞ If you change by-count PLU to by-weight PLU, unit price is same.

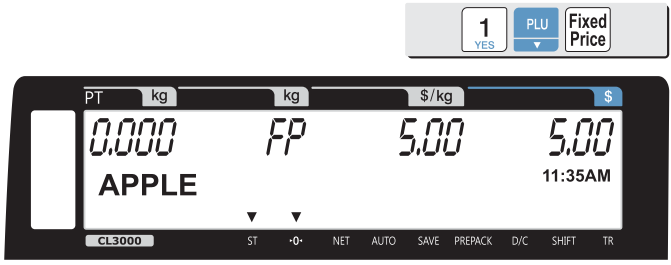
☞ If there is discount information in PLU, you can not change PLU type.

3.18 Direct Discount

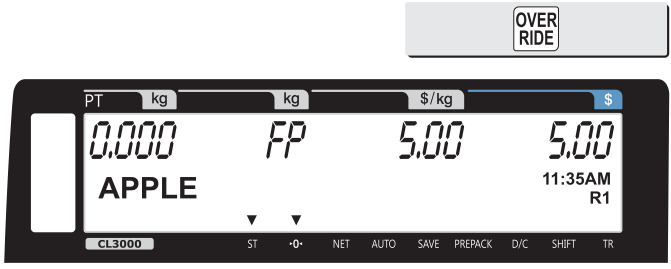
If there is no discount information in PLU, you can use this function.

3.18.1 Fixed Price Key

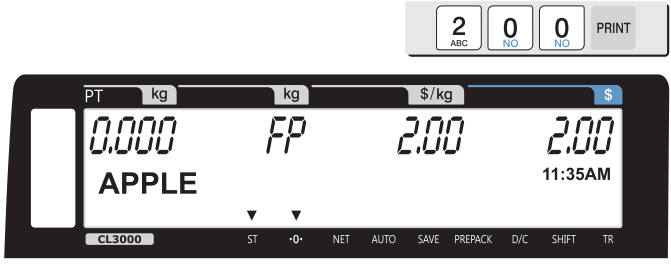
① Call up a PLU # 1 and press “Fixed Price” key.



② Press “Override Key”



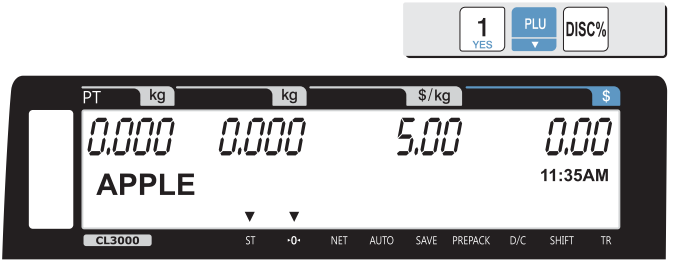
③ Type fixed price 2.00 than press PRINT key



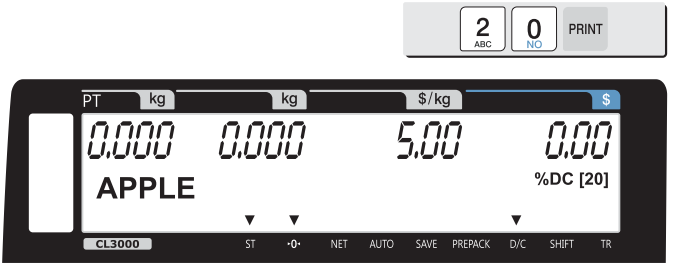
Note: - To use Fixed Price Key, you have to set this key in menu 1880 of program mode. (See chapter 2.10.22)

3.18.2 % Discount Price Key

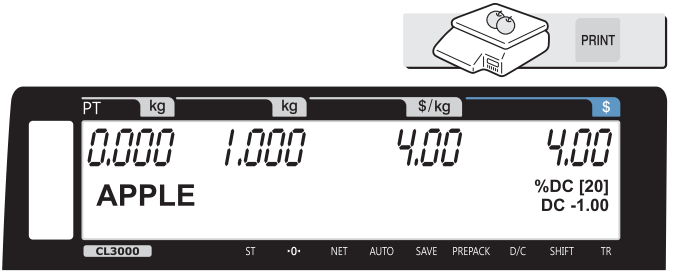
① Call up a PLU(#1.APPLE) and press “%Discount” key



② Enter % amount to discount and press PRINT key
Ex) 20%



③ Place item on the platter and press PRINT key.



Note: - To use % DISCOUNT key, you have to set this key in menu 1880 of program mode. (See chapter 2.10.22)

3.19 PLU Connection

3.19.1 Referenced PLU Function

If you press REFERENCE key after calling up a PLU which has reference information, reference will be shown on the display.

☞ To use this function, you have to set reference department and reference PLU when you create PLU.

3.19.2 Coupled PLU Function

Automatically coupled PLU is called up after transaction.
You can use this function when you sell two or more items as package.

☞ To use this function, you have to set coupled department and coupled PLU when you create PLU.

3.19.3 Linked PLU Function

You can use this function when you sell two or more items at a time.

☞ To use this function, you have to set linked department and linked PLU when you create PLU.

3.20 Sales Operation Control Parameters

3.20.1 Fixed Weight

- You can set fixed weight when you create PLU
  If you call up this PLU, the weight is not changed.

- You can use IN WEIGHT key.
  Call up a PLU and enter a fixed weight by using OVERRIDE key and press IN WEIGHT key.

3.20.2 Prepack Without Report

The transaction data is not added to report while using prepack mode.

- You have to set Parameter 597(Prepack report) to use this function.
  Also, Parameter 596 should be set to Y

4. APPENDIX

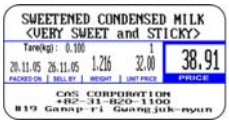
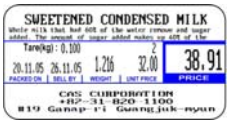
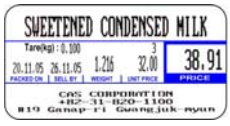
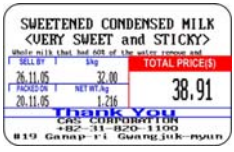
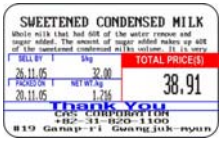
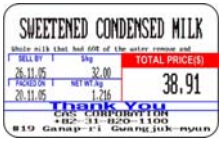
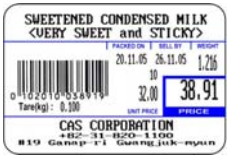
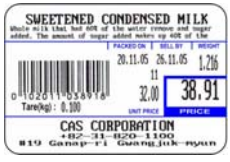
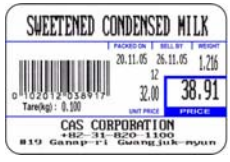
4.1 Label Format

There are fixed label format and user label format

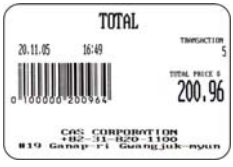
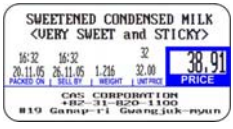
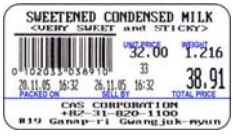
	Fixed Label Format	User Label Format
No.	1~50	51~99
Quantity	45	20
Method	Built in CL3000	Download from PC
Features	You cannot edit format.	Using the PC program, you can program format numbers 51 to 99. In ticket mode, it is available to use Head/Tail format.

▶ Fixed Label Format

No	Name	Width (mm)	Height (mm)	No	Name	Width (mm)	Height (mm)
1	IS6030-00001	60	30	24	IS5068-00024	50	68
2	IS6030-00002	60	30	25	IS5068-00025	50	68
3	IS6030-00003	60	30	26	IS5068-00026	50	68
4	IS5635-00004	56	35	27	IS6063-00027	60	63
5	IS5635-00005	56	35	28	IS6063-00028	60	63
6	IS5635-00006	56	35	29	IC6040-00029	60	40
7	IS6040-00007	60	40	30	IC6040-00030	60	40
8	IS6040-00008	60	40	31	IS6040-KR001	60	40
9	IS6040-00009	60	40	32	IS6030-KR002	60	30
10	IS6040-00010	60	40	33	IS6032-KR003	60	32
11	IS6040-00011	60	40	34	IS6060-KR004	60	60
12	IS6040-00012	60	40	35	IS6032-KR005	60	32
13	IS5040-00013	50	40	36	IS6042-KR006	60	42
14	IS5040-00014	50	40	37	IS6045-KR007	60	45
15	IS5040-00015	50	40	38	IS6050-KR008	60	50
16	IS5653-00016	56	53	39	IS6045-KR009	60	45
17	IS5653-00017	56	53	40	IS6040-KR010	60	40
18	IS5054-00018	50	54	41	IS6040-KR011	60	40
19	IS5054-00019	50	54	42	IS6045-KR012	60	45
20	IS6051-00020	60	51	43	IS6044-KR013	60	44
21	IS6051-00021	60	51	44	IS6055-KR014	60	55
22	IS6060-00022	60	60	45	IS6060-KR015	60	60
23	IS6060-00023	60	60				

1	2	3
		
4	5	6
		
7	8	9
10	11	12
		
13	14	15

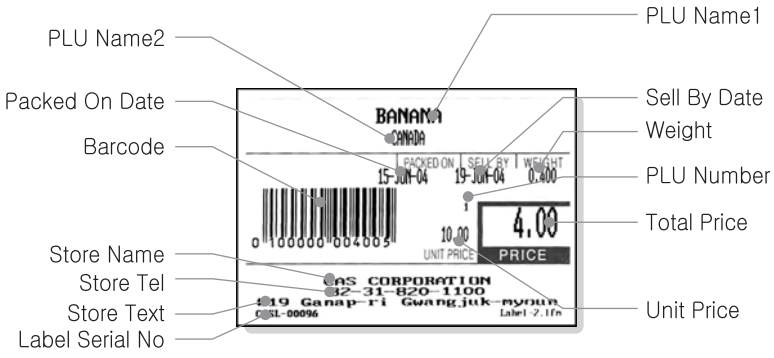
16	17	18
19	**20**	**21**
22	**23**	**24**

25	26	27
28	29	30
	 *Total Label	
31	32	33
		
34	35	36

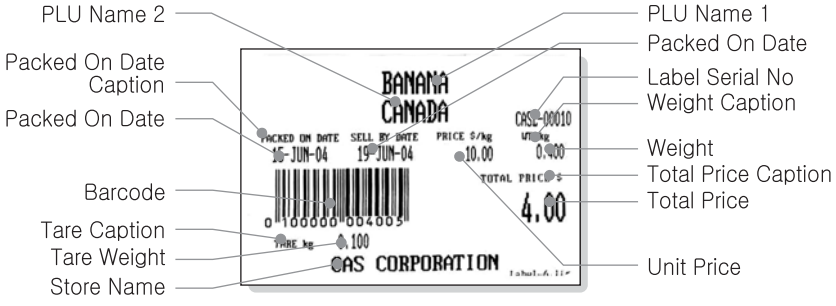
37	38	39
40	**41**	**42**
43	**44**	**45**

4.2 Fixed Label Format Sample

▶ (1) Label sample 1



▶ (2) Label sample 2



4.3 Fixed Label Format Sample

Label Format has several fields and each field has own ID.
Item label print the information of each PLU sale and Total label print the information of grand total of PLUs. Item Label field is separate from Total Label field. But the information of store and clerk is common item.

4.3.1 Item Label Field

▶ (1) Item Field

No	Item	Field ID	Description
1	Department Name	1	Print department name.
2	Department No	115	Print department number.
3	Group No	9	Print group number
4	PLU No	2	Print PLU number
5	PLU Name	10	Print PLU name1,2 and 3 in one field
6	PLU Name1	29	Print PLU name1,2 and 3. Depending on the setting of MENU 1862 “Print origin for comm. line”, Origin can be printed.
7	PLU Name2	30	
8	PLU Name3	31	
9	Item Code	11	Print item code
10	Prefix	3	Print prefix
11	Unit Weight	5	Print unit weight
12	Tax Rate	8	Print tax rate. It is printed with %.
13	Tax Price	111	Print tax price.
14	Tare Weight	13	Print tare weight.
15	Pieces	14	Print Piece for By-Pcs PLU
16	Qty Symbol	15	Print symbol of Quantity.
17	Sell By Date	16	Print sell by date.
18	Sell By Time	17	Print sell by time. If sell by time is 0, it is not printed
19	Packed On Date	18	Print packed on date.
20	Packed On Time	19	Print packed on time
21	Produced Date	20	Print produced date. If producted date is 0, it is not printed
22	Cook By Date	22	Print cook by date. If cook by date is o, it is not printed
23	Bonus Point	50	Print bonus point.
24	Origin	55	Print origin
25	Ingredient	25	Print ingredient
26	Sales Message	90	Print sales message

27	Reference Net Weight	100	Print net weight. In case of By-Count/By-Pcs PLU, net weight is printed when you print weight. In case of By-Weight PLU, net weight is printed when you use percent tare.
28	Reference Gross Weight	116	Print gross weight. In case of By-Weight PLU, gross weight is printed when you use percent tare.
29	Percent Tare	24	Print percent tare. It is printed with %.
30	Percent Tare Limit	23	Print percent tare limit. It is printed with %.
31	Weight	101	Print weight when it is not applied Markdown (By-Weight PLU)
32	Discount Weight	132	Print new weight when it is applied Markdown (By-Weight PLU)
33	Discount Weight (Mark Down)	108	Print previous weight when it is applied Markdown (By-Weight PLU)
34	Quantity	112	Print quantity when it is not applied Markdown (By-Count/By-Pcs PLU)
35	Discount Quantity	133	Print new quantity when it is applied Markdown (By-Count/By-Pcs PLU)
36	Discount Quantity (Mark Down)	134	Print previous quantity when it is applied Markdown (By-Count/By-Pcs PLU)
37	Unit Price	6	Print unit price when it is not applied Markdown
38	Discount Unit Price	113	Print new unit price when it is applied Markdown
39	Discount Unit Price (Mark Down)	118	Print previous unit price when it is applied Markdown.
40	Total Price	102	Print total price when it is not applied Markdown
41	Discount Total Price	114	Print new total price when it is applied Markdown
42	Discount Total Price (Mark Down)	110	Print previous total price when it is applied Markdown
43	Saved Price	131	Print saved price when it is discounted.
44	Label Serial	135	Print label serial number
45	Store Name	105	Print store name
46	Store Tel	138	Print Telephone numer of store
47	Store Text	139	Print information of store.
48	Clerk Number	128	Print clerk number
49	Clerk Name	106	Print clerk name
50	Customer Name	107	Print customer name
51	Customer Number	130	Print customer number
52	Scale Number	137	Print scale number
53	Day Of Week(Packed On)	117	Print Day Of Week(Packed On Date)
54	Currency Rate	119	Print Currency Rate
55	Second Currency Total Price	118	Print Second Currency Total Price
56	Second Currency Unit Price	120	Print Second Currency Unit Price

▶ (2) Caption Field

No	Item	Field ID	Description
1	(C)Total Price	170	Print the caption of total price
2	(C)Unit Price	171	Print the caption of unit price
3	(C)Weight	172	Print the caption of weight (Only By-Weight PLU)
4	(C)Tare	173	Print the caption of tare weight
5	(C)Saved Price	174	Print the caption of saved price
6	(C)Regular Price	175	Print the caption of regular price
7	(C)Tax Price	176	Print the caption of tax price
8	(C)Packed On Date	177	Print the caption of packed on date
9	(C)Sell By Date	178	Print the caption of Sell By Date/Time if it is existed.
10	(C)Cook By Date	179	Print the caption of Cook By Date. If the value is 0, it is not printed.
11	(C)Produced Date	180	Print the caption of Produced Date. If the value is 0, it is not printed.
12	(C)Packed On Time	181	Print the caption of Packed On Time
13	(C)Sell By Time	182	Print the caption of Sell By Time. If the value is 0, it is not printed.
14	(C)Quantity	183	Print the caption of quantity. (By-Count/By-Pcs PLU)
15	(C)Reference	184	Print the caption of Traceability Reference
16	(C)Born In	185	Print the caption of Born In Country
17	(C)Bred In	186	Print the caption of Bred In Country
18	(C)Slaughtered In	187	Print the caption of Slaughter House
19	(C)Cut In	188	Print the caption of Cutting Hall.
20	(C)Net Weight	189	Print the caption of Net Weight
21	(C)Gross Weight	193	Print the caption of Gross Weight
22	(C)Percent Tare	194	Print the caption of Percent Tare
23	(C)Percent Tare Limit	195	Print the caption of Percent Tare Limit
24	(C)Second Currency Total Price	198	Print the caption of second currency total price
25	(C)Second Currency Unit Price	199	Print the caption of second currency unit price

▶ (3) Traceability Field

No	Item	Field ID	Description
1	(T)Traceability No	35	Print Traceability Number
2	(T)Born in Country	36	Print Born In Country Name
3	(T)Bred in Country	37	Print Bred In Country Name
4	(T)Slaughter House	38	Print Slaughter House Name
5	(T)Slaughter Country	39	Print Slaughter House Country Name
6	(T)Cutting Hall	40	Print Cutting Hall Name
7	(T)Cutting Country	41	Print Cutting Hall Country Name
8	(T)Reference	42	Print Reference
9	(T)Born in Country No	43	Print Born In Country Number
10	(T)Bred in Country No	44	Print Bred In Country Number
11	(T)Slaughter House No	45	Slaughter House Number
12	(T)Cutting Hall No	46	Print Cutting Hall Number

▶ (4) Nutrition Facts Field

No	Item	Field ID	Description
1	(N)Serving Size	140	Print Serving Size
2	(N)Servings Per	141	Print Servings Per Container
3	(N)Calories	142	Print Calories
4	(N)Calories From Fat	143	Print Calories From Fat
5	(N)Total Fat	144	Print Total Fat
6	(N)Saturated Fat	145	Print Saturated Fat
7	(N)Cholesterol	146	Print Cholesterol
8	(N)Sodium	147	Print Sodium
9	(N)Total Carbohydrates	148	Print Total Carbohydrates
10	(N)Dietary Fibers	149	Print Dietary Fibers
11	(N)Sugars	150	Print Sugars
12	(N)Protein	151	Print Protein
13	(N)Vitamin A	152	Print Vitamin A
14	(N)Calcium	153	Print Calcium
15	(N)Vitamin C	154	Print Vitamin C
16	(N)Iron	155	Print Iron
17	(N)Total Fat DV	156	Print Daily Value of Total Fat
18	(N)Saturated Fat DV	157	Print Daily Value of Saturated Fat
19	(N)Cholesterol DV	158	Print Daily Value of Colesterol.
20	(N)Sodium DV	159	Print Daily Value of Sodium
21	(N)Total Carbohydrates DV	160	Print Daily Value of Total Carbohydrates
22	(N)Dietary Fibers DV	161	Print Daily Value of Dietary Fibers
23	(N)Protein DV	162	Print Daily Value of Protein

4.3.2 Total Label Field

▶ (1) Total Field

No	Item	Field ID	Description
1	(TOTAL)Total Price	201	Print total price
2	(TOTAL)Total Count	202	Print total number of item
3	(TOTAL)Void Price	203	Print voided price
4	(TOTAL)Void Count	204	Print voided number of
5	(TOTAL)Internal Tax Amount	205	Print internal tax price
6	(TOTAL)External Tax Amount	206	Print external tax price
7	(TOTAL)Total Price (Exclude Tax)	207	Print total price exclude tax
8	(TOTAL)Total Price (Include Tax)	211	Print total price include tax
9	(TOTAL)Payment Price	208	Print payment price
10	(TOTAL)Change Price	209	Print change price
11	(TOTAL)Current Date	103	Print current date
12	(TOTAL)Current Time	104	Print current time
13	(TOTAL)Total Tax Amount	210	Print total tax amount
14	(TOTAL)Second Currency Total Price	212	Print second currency total price
15	Store Name	105	Print store name
16	Store Tel	138	Print telephone number of store
17	Store Text	139	Print information of store
18	Clerk Number	128	Print clerk number
19	Clerk Name	106	Print clerk name
20	Customer Name	107	Print customer name
21	Customer ID	130	Print customer ID
22	Scale Number	137	Print scale number
23	Currency Rate	119	Print currency rate

▶ (2) Caption Fieldd

No	Item	Field ID	Description
1	(C)Total Count for Total Label	190	Print the caption of total Item number
2	(C)Payment Price for Total Label	191	Print the caption of payment
3	(C)Change Price for Total Label	192	Print the caption of change price
4	(C)Total Price for Total Label	196	Print the caption of total price
5	(C)Total Tax for Total Label	197	Print the caption of total tax price
6	(C)Second Currency Total Price for Total Label	200	Print the caption of second currency total price
7	(C)Void Price for Total Label	169	Print the cpatoin of void price

4.4 ASCII Code Table

▶ Microsoft Window Codepage 1252

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	NUL 0000	STX 0001	SOT 0002	ETX 0003	EOT 0004	ENQ 0005	ACK 0006	BEL 0007	BS 0008	HT 0009	LF 000A	VT 000B	FF 000C	CR 000D	SO 000E	SI 000F
10	DLE 0010	DC1 0011	DC2 0012	DC3 0013	DC4 0014	NAK 0015	SYN 0016	ETB 0017	CAN 0018	EM 0019	SUB 001A	ESC 001B	FS 001C	GS 001D	RS 001E	US 001F
20	SP 0020	! 0021	" 0022	# 0023	$ 0024	% 0025	& 0026	' 0027	(0028	) 0029	* 002A	+ 002B	, 002C	- 002D	. 002E	/ 002F
30	0 0030	1 0031	2 0032	3 0033	4 0034	5 0035	6 0036	7 0037	8 0038	9 0039	: 003A	; 003B	< 003C	= 003D	> 003E	? 003F
40	@ 0040	A 0041	B 0042	C 0043	D 0044	E 0045	F 0046	G 0047	H 0048	I 0049	J 004A	K 004B	L 004C	M 004D	N 004E	O 004F
50	P 0050	Q 0051	R 0052	S 0053	T 0054	U 0055	V 0056	W 0057	X 0058	Y 0059	Z 005A	[005B	\ 005C	] 005D	^ 005E	_ 005F
60	` 0060	a 0061	b 0062	c 0063	d 0064	e 0065	f 0066	g 0067	h 0068	i 0069	j 006A	k 006B	l 006C	m 006D	n 006E	o 006F
70	p 0070	q 0071	r 0072	s 0073	t 0074	u 0075	v 0076	w 0077	x 0078	y 0079	z 007A	{ 007B	| 007C	} 007D	~ 007E	DEL 007F
80	€ 20AC		‚ 201A	ƒ 0192	„ 201E	… 2026	† 2020	‡ 2021	ˆ 02C6	‰ 2030	Š 0160	‹ 2039	Œ 0152		Ž 017D	
90		' 2018	' 2019	" 201C	" 201D	• 2022	– 2013	— 2014	˜ 02DC	™ 2122	š 0161	› 203A	œ 0153		ž 017E	Ÿ 0178
A0	NBSP 00A0	¡ 00A1	¢ 00A2	£ 00A3	¤ 00A4	¥ 00A5	¦ 00A6	§ 00A7	¨ 00A8	© 00A9	ª 00AA	« 00AB	¬ 00AC	- 00AD	® 00AE	¯ 00AF
B0	° 00B0	± 00B1	² 00B2	³ 00B3	´ 00B4	µ 00B5	¶ 00B6	· 00B7	¸ 00B8	¹ 00B9	º 00BA	» 00BB	¼ 00BC	½ 00BD	¾ 00BE	¿ 00BF
C0	À 00C0	Á 00C1	Â 00C2	Ã 00C3	Ä 00C4	Å 00C5	Æ 00C6	Ç 00C7	È 00C8	É 00C9	Ê 00CA	Ë 00CB	Ì 00CC	Í 00CD	Î 00CE	Ï 00CF
D0	Ð 00D0	Ñ 00D1	Ò 00D2	Ó 00D3	Ô 00D4	Õ 00D5	Ö 00D6	× 00D7	Ø 00D8	Ù 00D9	Ú 00DA	Û 00DB	Ü 00DC	Ý 00DD	Þ 00DE	ß 00DF
E0	à 00E0	á 00E1	â 00E2	ã 00E3	ä 00E4	å 00E5	æ 00E6	ç 00E7	è 00E8	é 00E9	ê 00EA	ë 00EB	ì 00EC	í 00ED	î 00EE	ï 00EF
F0	ð 00F0	ñ 00F1	ò 00F2	ó 00F3	ô 00F4	õ 00F5	ö 00F6	÷ 00F7	ø 00F8	ù 00F9	ú 00FA	û 00FB	ü 00FC	ý 00FD	þ 00FE	ÿ 00FF

Note: To enter “A”, first you have to read 40 in a row and 01 in a column and type 41.

4.5 Window Character Set Information

Code	Short Name	Description	Country
1250	Central Europe	Windows Latin 2	Albania, Croatia, Czech, Faeroese, Hungarian, Polish, Romanian, Serbian(Latin), Slovak, Slovenian
1251	Cyrillic	Windows Cyrillic (Slavic)	Byelorussian, Bulgarian, Russian, Ukrainian
1252	Latin 1	Windows Latin 1 (ANSI)	Afrikaans, Catalan, Danish, Dutch, English, USA, Canada, New Zealand, Austria, Ireland, South Africa, Finnish, French, Belgium, Switzerland, Luxembourg, German, Austria, Liechtenstein, Italian, Icelandic, Indonesian, Norwegian, Portuguese, Brazil, Spanish, Mexico, Swedish
1253	Greek	Windows Greek	Greek
1254	Turkish	Windows Latin 5 (Turkish)	Turkish
1255	Hebrew	Windows Hebrew	Hebrew
1256	Arabic	Windows Arabic	Saudi Arabia, Iraq, Egypt, Lobya, Algeria, Morocco, Tunisia, Oman, Yemen, Syria, Jordan, Lebanon, Kuwait, United Arab Emirates, Bahrain, Qatar, Farsi
1257	Baltic	Windows Batic Rim	Estonian, Latvian, Lithuanian
1258	Vietnam		Vietnam
874	Thai		Thai
932	Japanese Shift-JIS		Japan
936	Simplified Chinese GBK	Simplified Chinese	Chinese, Singapore
949	Korean	Complete Hangul	Korea
950	Traditional Chinese BIG5	Traditional Chinese	Taiwan, HongKong

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CL3000 SERIES

Label Printing Scale

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Specifications are subject to change for improvement without prior notice.

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