

SERVICE MANUAL

DIGITAL COMPUTING PRINTING SCALE

SM-500MK4

Edition 1

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Screen displays, operating procedures and supporting features might vary with different software version releases.

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ii) Safety Information

The operator of the equipment shall comply with the safety and warning indications and procedures outlined in this document. Teraoka Weigh-System Pte Ltd assumes no responsibility or liability for failure to comply with these requirements.

- To avoid electric shock, use only the supplied power cords and ensure product is connected to a properly grounded supply.
- For continued protection against fire hazard replace only with fuse of same rating and type.
- Ensure product is placed on a firm and level surface before operation.
- Avoid overloading the product beyond its rated maximum capacity
- Ensure commodity to be weighed is loaded centrally on the platter.
 - Avoid placing commodity on corners or edges.
- Care shall be taken during the following operations
 - Receipt paper tearing – to prevent injuries from cutting from paper cutter
 - Changing of labels and receipt paper - to prevent injuries from cutting from paper cutter and movable printer mechanism.
- Trained and qualified personnel shall only carry out repair and servicing of product.

Disclaimer:

Specifications are subject to change without notice. All dimensions shown are approximate. Please be aware that Teraoka has indicated that its hardware and software used in the product may require additional updates in the future as our product is continually under development. The need for such updates most likely applies to the Printer software.

CAUTIONS:

1. FOR **PLUGGABLE EQUIPMENT**, THAT THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AND SHALL BE EASILY ACCESSIBLE.
2. FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.
3. DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE THAT RECOMMENDED. DISPOSE OF USED BATTERY ACCORDINGS TO THE MANUFACTURER'S INSTRUCTIONS.

1. GENERAL

1.1 Model Specification

Model	:	SM-500MK4			
Variation	:	Dual Pole	-	SM-500MK4 DP	
	:	Economic Bench	-	SM-500MK4 EB	
	:	Elevated	-	SM-500MK4 EV	
Capacity	:	6/ 15/ 30 Kg			
Key	:	Mechanical Switch			
Number Of Preset Key	:	32/ 56/ 100 Preset keys			
	:	48/ 60/ 96/ 108/ 120 Preset keys (For Self-Service machine used)			
Display Resolution	:	1/3000	(Multiple Interval)		
		1/6000 or 1/7500	(Single Range)		
Internal Resolution	:	1 / 60000			
Printer Type	:	Cassette Type			
		A) Paper	:	Label & Receipt	
		B) Paper Width	:	Label (Standard)	- 40mm to 72mm
			:	Label (Option)	- 40mm to 80 mm
			:	Receipt	- 72mm / 80mm
		C) Resolution	:	8 dots / mm	
		D) Speed	:	Label	- 150mm / sec
			:	Receipt	- 150mm / sec
		<i>Note: For Best Speed and Printing Resolution, use Ricoh paper, 150LAB</i>			
Memory	:	2 M Byte (Standard)			

1.2 Operating Specification

Power Source	:	100V to 240V AC (Auto Switching)
Frequency	:	50 - 60 Hz
Operating Temperature	:	-10 °C to 40 °C
Humidity	:	15 % to 85 % RH
Waterproof	:	N.A. (Please do not splash water on top or around the scale. Clean scale only with a damp cloth)

1.3 Type of Interface

Standard	:	RS 232C (FL-1, PC connection)
	:	PS2 Keyboard
	:	Cash drawer (3 Pin for TWB-01750)
	:	Cash drawer (RJ11 type for TWB-01750-1 onward)
Optional	:	RS 485 (PC connection)
	:	Ethernet (Client / Server, TCP / IP protocol)
	:	Character Generator

* Interface with PC can either use RS 232C, RS 485 or Ethernet.

1.4 Main Components

1	XYLINX-XC95144XL-10TQG144C. (M/B-U1)	It's a 3.3V CPLD targeted for high-performance, low-voltage application in leading-edge communications and computing system.
2	Motor Driver L6258EX. (M/B-U5)	It's a dual full bridge for motor control application realized in BCD technology, with the capability of driver both winding of a bipolar stepper motor or bi-directional control two DC motor.
3	RS232 Drv AX3232. (M/B-U18)	It's a device consists of two line driver, two receiver, and a dual change-pump circuit with +-15kv ESD protection pin to pin.
4	Controller H8/3024F. (CPU BD-U1)	It's a high-performance single-chip microcomputer that integrates peripheral functions necessary y for system configuration with an H8/300H CPU feature a 32-bits internal architecture as its core.
5	SRAM IS62WV51216BLL. (CPU BD-U7 & U8)	It's a high-performance, very low power CMOS static Random Access Memory organized as 524,288 words by 16 bits and operates from a wide range of 2.4V to 5.5V supply voltage.
6	AM29LV320DB90EI. (CPU BD-U9)	It's a 32 megabit, 3.0 volt-only flash memory device, and is designed to be programmed in-system with the standard 3.0 volt Vcc supply, and can also be programmed in standard EPROM programmers.
7	LAN9115-MT. (CPU BD-U10)	Is a full-featured, single chip 10/100 Ethernet controller designed for Embedded applications where performance, flexibility, ease of integration and system cost control are required

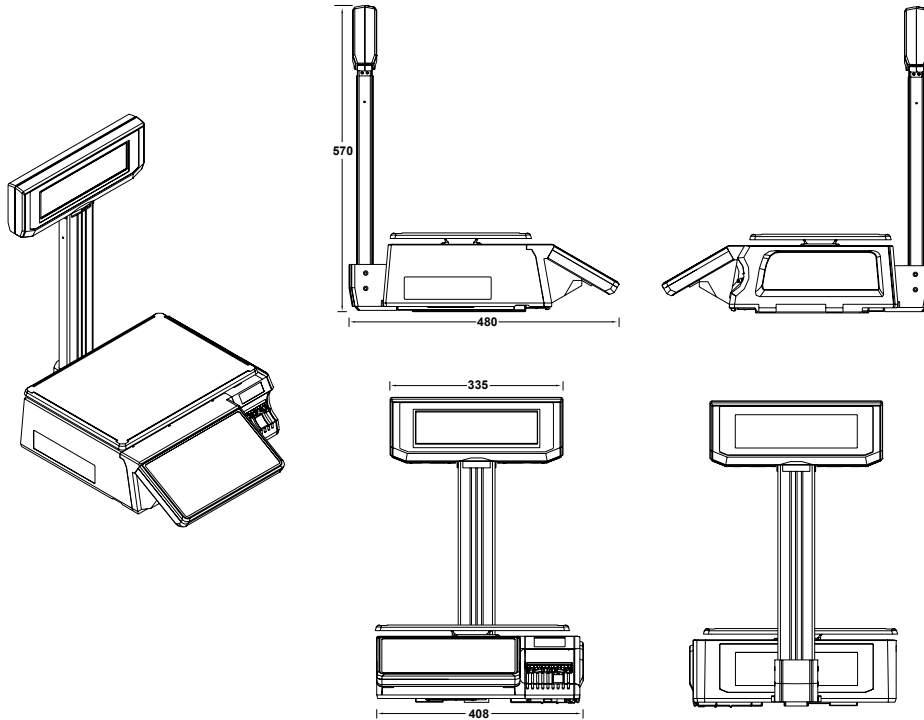
*Components are subject to change without notice.

2 OVERVIEW

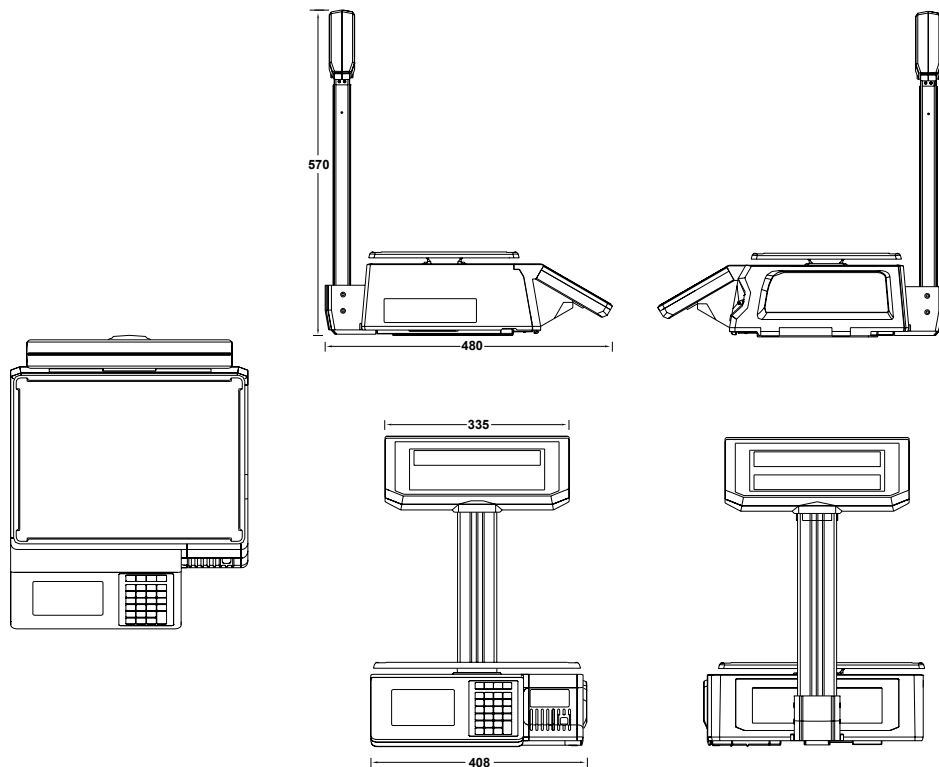
2.1 Dimension

Dimensions are in mm

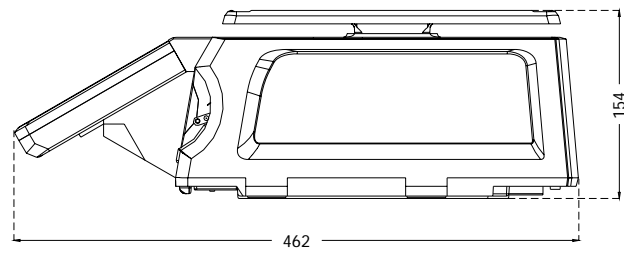
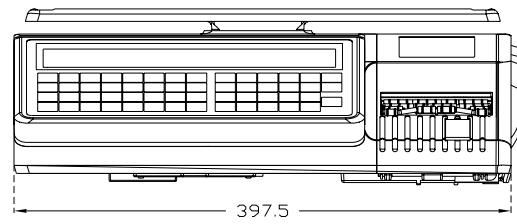
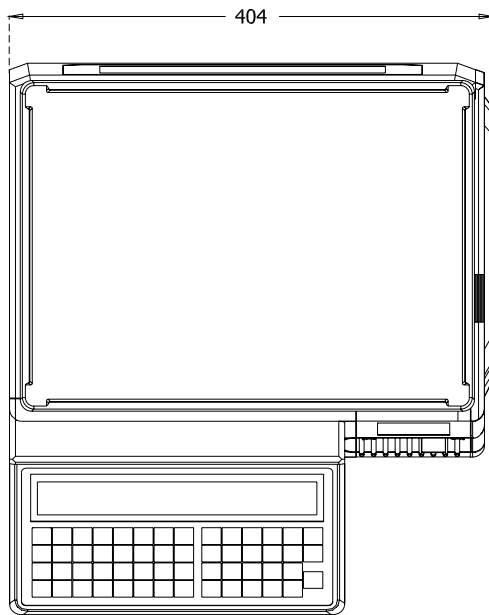
2.1.1 Pole



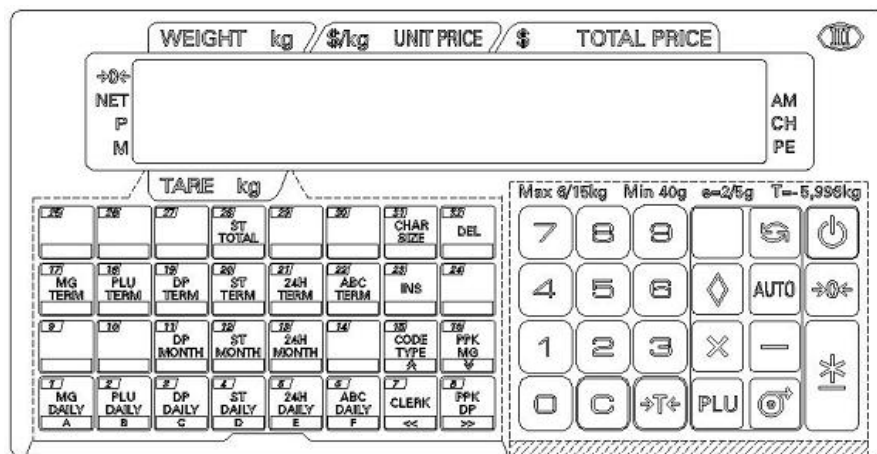
2.1.2 Touch Screen Pole



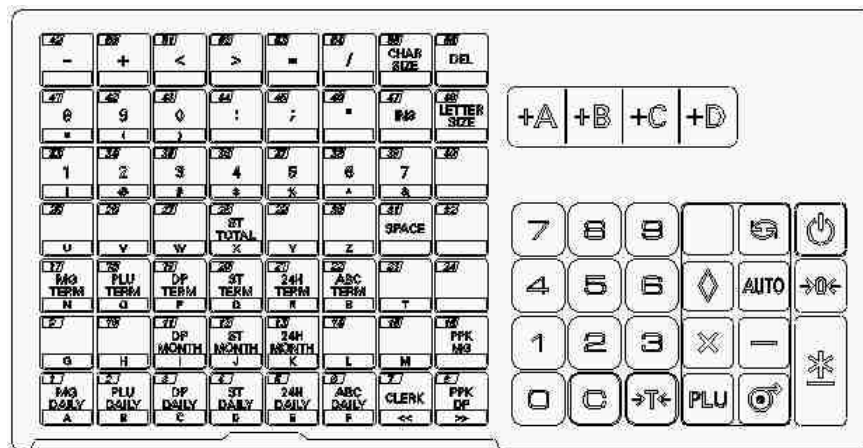
2.1.3 Bench



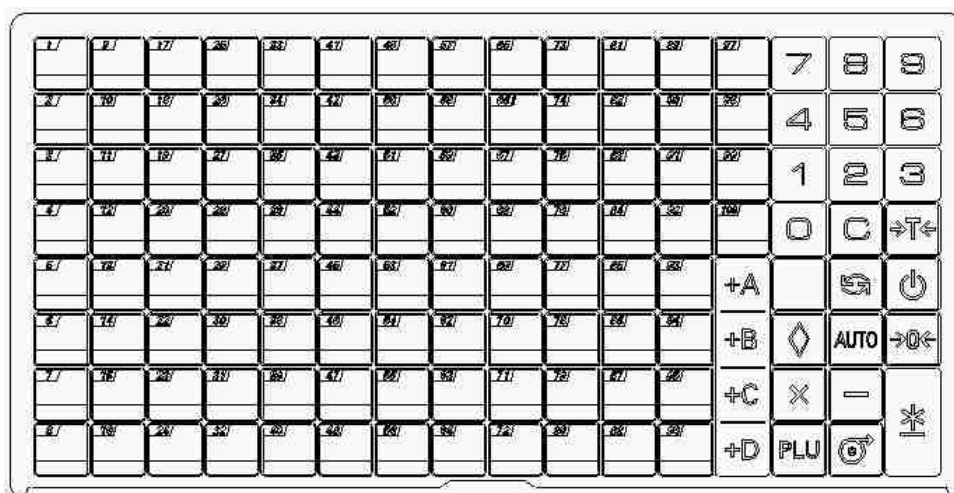
2.2 Key sheet Layout



32 Preset Keys



56 Preset Keys



100 Preset Keys

ON / OFF KEY



* Turn display ON or OFF.

NUMERIC KEYS



To



* Enter numeric data.

TARE KEY



* Set or Clear Tare Value.
* Select " NO " in S and Z Mode.
* Item Test print in S Mode.

CLEAR KEY



* Clear numeric values.
* Select " YES " in S and Z Mode.

RE-ZERO KEY



* Reset weight to zero.

PRE-PACK KEY



* Switch Manual mode and Pre-pack mode alternatively.
(The mode status will be indicated in the P and M indicator.)
▪ P - PRE-PACK MODE ▪ M - MANUAL MODE

CHANGE KEY



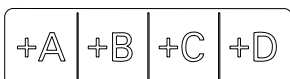
* Calculate the Changed Amount.
* Escape the Programming screen without saving data in S mode.

MULTIPLE KEY



* Register the number of Non-Weight products.
* Select programming item such as PLU data, Shop Name in S mode.
* Select Report Type in X mode.
* Select Data Transaction Type in Z mode.

CLERK KEYS



* Accumulate the Total Price.

VOID KEY



* Correct the Sales Data

PLU KEY



* Call up PLU data.
* Store the programmed data in S mode.

FEED KEY



* Feed Label or Receipt

PRINT KEY



* Print out Label or Receipt

MODE SELECT KEY



* Five Modes can be selected using this key.
Indicator R - REGISTRATION MODE (All the sales transactions are performed.)
Indicator X - CHECK MODE (Printing out and sales report.)
Indicator S - PROGRAM MODE (Programming preset data, such as products, data, shop name, etc.)
Indicator Z - TOTAL MODE (Clear sales data stored.)
Indicator X (Blink) - PASSWORD SETTING MODE (Setting ENTRY PASSWORD for S, X and Z modes.)

PRESET KEYS



to



* Call up Preset data such as PLU Data or Function Data in Reg. Mode.
* Enter Alphabetic data in Program Mode.

Note: The following Preset Keys are used in entering Alphabetic (Pole Type).



Move the cursor.
Change the entry to Right.



Move the cursor.
Change the entry to Left.



Code type entered.



Insert Data.



Switch Cap / Lower case.

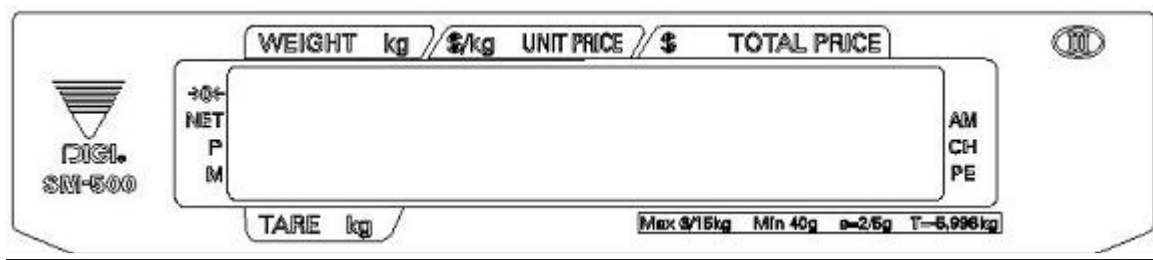


Change Font size.



Delete the Data.

2.3 Panel Layout




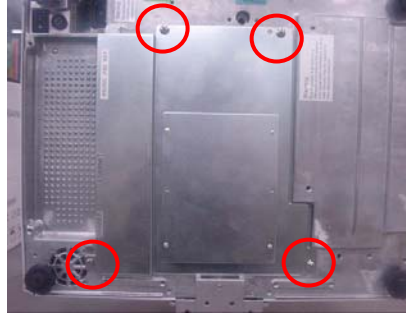
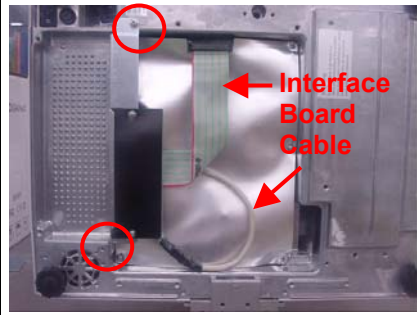
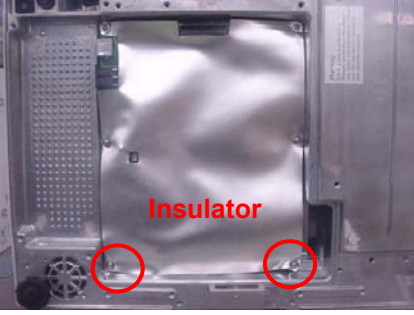
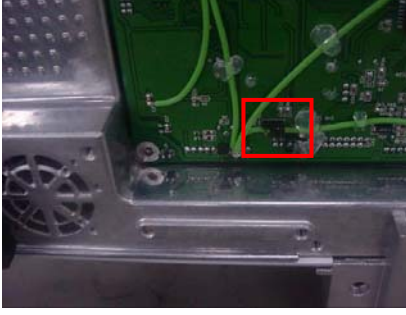
Bench and Pole Type (For 300 LCD)

There are fifteen different indicators on Display Panel as shown below.

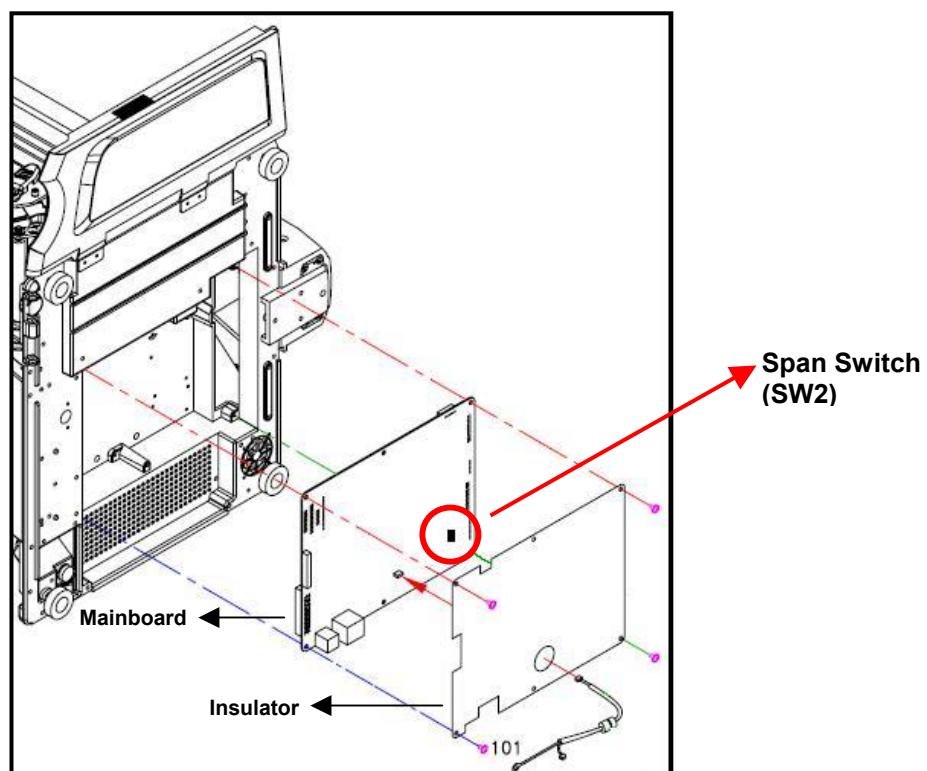
1. **→0←** : Lights when scale is stable at the zero point
2. **NET** : Lights when tare subtraction is performed.
3. **P** : Lights when PRE-PACK Mode is selected.
4. **MAN** : Lights when MANUAL Mode is selected.
5. **AM** : Lights when the amount is displayed.
6. **CH** : Lights when the amount of change is being displayed.
7. **PE** : Lights when label or receipt paper ends.
8. **R** : Lights when REGISTRATION Mode is selected.
9. **X** : Lights when CHECK Mode is selected.
10. **S** : Light when PROGRAM Mode is selected.
11. **Z** : Lights when TOTAL Mode is selected.
12. **A** : Lights when Sales Data is in Memory for CLERK 9995.
13. **B** : Lights when Sales Data is in Memory for CLERK 9996.
14. **C** : Lights when Sales Data is in Memory for CLERK 9997.
15. **D** : Lights when Sales Data is in Memory for CLERK 9998.

3. SPAN SWITCH

3.1 Span Switch Jumper Setting Changing Procedure

		
<p>1. Bottom View of Machine.</p>	<p>2. Loosen the 4pcs SEMS B screw M4X6, then open the Bottom Cover.</p>	<p>3. Loosen the 2pcs Truss Head screw M4X6, and disconnect the Interface Board cable.</p>
		
<p>4. Loosen the 2pcs SEMS B screw M3X6, then open the Insulator.</p>	<p>5. Change [SW2] jumper to Enable/Disable Span Switch.</p>	

3.2 Span Switch located in Main Board



4. INITIAL SETUP

4.1 Scale Assembly

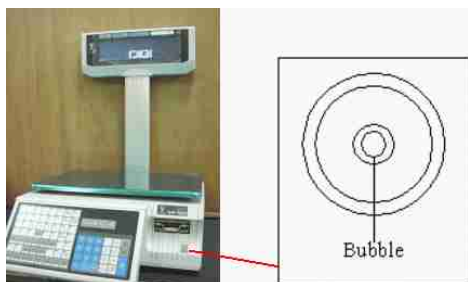
4.1.1 Display Pole Kit Mounting



1. Place the display Pole inside the pole bottom (base AB)

2. Align the four holes of the display pole and tighten screw Flat Head M4x16

4.1.2 Level Adjustment



Place the scale on the flat surface and adjust the four legs until the bubble on the level is in the center as shown above.




4.2 Software Setting

4.2.1 Memory Initialization

There are two methods of memory initialization.

4.2.1.1 Default Country Specification 1

Default Customer Specification and Weight & Measure Specification setting of individual country.
(Please turn on the span switch before proceed this process.)

KEY TO PRESS	OPERATION
 +  Switch On the Power.	-- Show current country SPEC then default Customer Specification setting. -- Follow the instruction: a) Press the [Clear] then b) Press the [Print] process to next step
	

KEY TO PRESS	OPERATION
[0] To [8]	-- Select scale type. -- Select scale type. -- To set the scale type.
OR	
CLERK & PPK DP	
Then	
*	
SELECT SCALE TYPE ENTER: 0 POLE / 6KG	


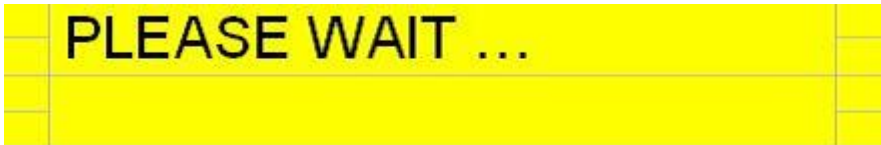
Scale Type:
0: Pole 6 Kg
1: Pole 15 Kg
2: Pole 30 Kg
3: Pole 30 Lb
4: Bench 6 Kg
5: Bench 15 Kg
6: Bench 30 Kg
7: Bench 30 Lb
8: Printer (BP 80/90)



KEY TO PRESS	OPERATION
[0] To [1]	-- Select label length. -- Select label length. -- To set the label length.
OR	
CLERK & PPK DP	
Then	
*	
SELECT LABEL LENGTH ENTER: 0 SHORT	

Label Length:
0: Short
→ Label length up to maximum 120mm.
1: Long
→ Label length up to maximum 240mm


Key to press	Operation
	-- Reading Country Specification.
READING COUNTRY SPEC	




Key to press	Operation
	-- After Reading Country Spec, the display will prompt MEMORY CLEAR message.
MEMORY CLEAR? PRESS: C (YES) / T (NO)	

Key to press	Operation
If Yes, 	-- Process of initialize. -- Then go to segment check.
	

Key to press	Operation
If No, 	-- Go to segment check.
	

4.2.1.2 Default Country Specification 1

Key to press	Operation
[9] + [3] Switch On the Power.	-- Show current country SPEC then default Customer Specification setting. -- Follow the instruction: a) Press the [Clear] then b) Press the [Print] process to next step
	

KEY TO PRESS	OPERATION		
[0] To [1]	-- Select label length.	<u>Label Length:</u> 0: Short →Label length up to maximum 120mm.	
OR			
 & 			-- Select label length.
Then			
	-- To set the label length.	1: Long →Label length up to maximum 240mm	
	<div>SELECT LABEL LENGTH</div> <div>ENTER: 0 SHORT</div>		

Key to press	Operation
	-- Reading Country Specification.






Key to press	Operation
	-- After Reading Country Spec, the display will prompt MEMORY CLEAR message.



Key to press	Operation
If Yes, press	-- Process of initialize. -- Then go to segment check.



OR


If No, press	-- Go to segment check.


4.3 Calibration

Key to press	Operation
In the Weighing Mode, press     then turn On the Span Switch.	-- Go to Z mode
	

KEY TO PRESS	OPERATION
 + [8][7][1][5]	-- Access code to calibration mode.
	





KEY TO PRESS	OPERATION
	-- To calibrate zero point. -- Ensure no weight in platter -- Wait until the ' SET WEIGHT & PRT ' shows
	


KEY TO PRESS	OPERATION
Place the capacity weight on the scale after the following screen appears.	-- Place the capacity weight according to the scale on the platter. E.g. for a 6 Kg scale, put a 6 Kg capacity weight on the platter.
	




KEY TO PRESS	OPERATION
Press Mode key exit	-- Calibration finish
	


4.4 User Spec Setup Procedure


To Change the setting of the User SPEC, if there is some SPEC need to alter.


KEY TO PRESS	OPERATION
In the Weighing Mode, press     then turn On the Span Switch.	-- Go to Z mode.
<div>TO CLEAR DAILY TRANS PRESS PRINT KEY</div>	



KEY TO PRESS	OPERATION
 + [1][4][1]	-- Go to User Specification Mode -- To change the selection for the Spec, press the Number of the selection -- Press the key to Save go to next Spec -- Press '-' key to go back to previous Spec -- Press 'PLU' to save and exit -- Press 'Tare' to exit without saving
<div>SP0: IT BARCODE 04>>04: F1F2CCCCCXXXXXCD</div>	

KEY TO PRESS	OPERATION
[0] To [2][0]	-- Select data. (Refers to Customer Spec setting) -- To choose scale type. -- To set. (Save data and increase SPEC No)
OR	
 & 	
Then	
	
<div>SP1: R.S.DATA OF IT BAR 1>>1: PRICE</div>	

KEY TO PRESS	OPERATION
	-- Increase the SPEC number without saving data of the previous SPEC number.
<div>SP2: IT BAR R.S.PC DATA 0>>0: BEFORE TAX</div>	



KEY TO PRESS	OPERATION
	-- Decrease the SPEC number without saving data of the previous SPEC number.
<div> <div>SP2: IT BAR R.S.PC DATA</div> <div>0>>0: BEFORE TAX</div> </div>	


KEY TO PRESS	OPERATION
[1][0] 	-- To jump to desire SPEC number.
<div> <div>SP10: F1F2 OF TTL BAR</div> <div>RANGE (0-99) : 002</div> </div>	




KEY TO PRESS	OPERATION
	Save SPEC setting and Exit to R mode.
OR	
	Do not save SPEC setting and Exit to R mode.
<div> <div>0.000 0.00 0.00</div> <div>0.000</div> </div>	


4.5 Weigh & Measurement Spec Setup Procedure


To Change the setting of the Weight & Measurement SPEC, if there is some SPEC need to alter.


KEY TO PRESS	OPERATION
In the Weighing Mode, press   then turn On the Span Switch.	-- Go to Z mode
<div>TO CLEAR DAILY TRANS</div> <div>PRESS PRINT KEY</div>	



KEY TO PRESS	OPERATION
 + [1][4][2]	-- Go to Weight and Measure Specification Mode -- To change the selection for the Spec, press the Number of the selection. -- Press ' PRINT ' key to Save go to next Spec -- Press '-' key to go back to previous Spec -- Press ' PLU ' to save and exit -- Press ' Tare ' to exit without saving
<div>SP600: WT ITEMS PC BASE</div> <div>1>>1: 1KG BASE</div>	

KEY TO PRESS	OPERATION
[0] To [1]	-- Select data. (Refer to Weight & Measurement Spec setting) -- To choose scale type -- To set. (Save data and increase SPEC No)
OR	
 & 	
Then	
	
<div>SP601: AUTO-ZERO FUNC</div> <div>0>>0: NO AUTO-ZERO</div>	

KEY TO PRESS	OPERATION
	-- Increase the SPEC number without saving data of the previous SPEC number.
<div>SP602: DISPLAY TYPE</div> <div>0>>0: SINGLE DISP ROW</div>	

KEY TO PRESS	OPERATION
	-- Decrease the SPEC number without saving data of the previous SPEC number.
<div> <div></div> <div>SP601: AUTO-ZERO FUNC</div> <div></div> </div> <div> <div></div> <div>0>>0: NO AUTO-ZERO</div> <div></div> </div>	






KEY TO PRESS	OPERATION
[6][1][0] 	-- To jump to desire SPEC number.
<div> <div></div> <div>SP610: UP DP R.SHIFT</div> <div></div> </div> <div> <div></div> <div>0>>0: NO RIGHT SHIFT</div> <div></div> </div>	

KEY TO PRESS	OPERATION
	Save SPEC setting and Exit to R mode.
OR	
	Do not save SPEC setting and Exit to R mode.
<div> <div></div> <div>0.000 0.00 0.00</div> <div></div> </div> <div> <div></div> <div>0.000</div> <div></div> </div>	



Remarks: Please restart the scale every time after changing the SPEC.


5. HARDWARE TESTING & MAINTENANCE

5.1 Hardware Testing

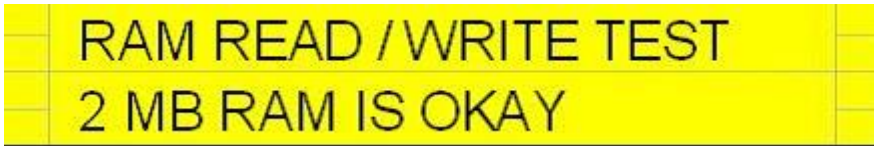
KEY TO PRESS	OPERATION
In the Weighing Mode, press    	-- Go to Z mode
	

5.1.1 RAM Read and Write Test




KEY TO PRESS	OPERATION
 + [0] [0] [1]	-- Go to Hardware Testing Mode and first it will show the RAM TEST Result
	

KEY TO PRESS	OPERATION
	-- If the RAM is Ok , It will show the message below.
	




OR

	-- If the RAM is Fail , It will show the message below.
	




5.1.2 SIO Loop Back Test

KEY TO PRESS	OPERATION
	-- Testing the RS232 port. -- Please plug in the connector on the RS232C port before proceed. (The test result is show at below).
	
OR	
	




5.1.3 RS485 Loop Back Test

KEY TO PRESS	OPERATION
	-- Testing the 4-Line port. -- Please plug in the test connector on the 4-Line port before proceed. (The test result is show at below)
	
OR	
	









5.1.4 Ethernet Loop Back Test


KEY TO PRESS	OPERATION
	-- Testing the Ethernet port. -- If the port okay, it will display the message below
	
OR	
	

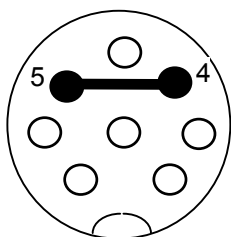
5.1.5 ROM Checksum Test

KEY TO PRESS	OPERATION
	-- Testing the ROM Checksum. -- Press the [PRINT] Key to start the testing.
	
After that	
	

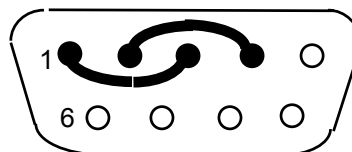
5.1.6 PLU Generator Test

KEY TO PRESS	OPERATION
 + 	-- Testing the PLU Generator. -- Press the [PRINT] key to start PLU Generator.
	
Then it will display how many PLU generated at the right top corner.	
	
Then	
KEY TO PRESS	OPERATION
	-- Go to Hardware Testing Mode again
	
After that	
KEY TO PRESS	OPERATION
	-- It will show the message below.
	

KEY TO PRESS	OPERATION
	-- Exit to Z mode.
<div>TO CLEAR DAILY TRANS</div> <div>PRESS PRINT KEY</div>	





Remarks:


TEST JIG CONNECTOR for SIO Port
Connect pin 4 and pin 5







TEST JIG CONNECTOR for 4 LINE RS485 Port
Connect pin 1 and pin 3
Connect pin 2 and pin 4


5.1.7 Internal Count

KEY TO PRESS	OPERATION
In the Weighing Mode, press    	-- Go to Z mode. -- Then turn on the Span Switch.
<div>TO CLEAR DAILY TRANS</div> <div>PRESS PRINT KEY</div>	

KEY TO PRESS	OPERATION
 + [0][0][9]	-- Internal Count Mode -- Press 'Tare' key to exit
<div>INTERNAL COUNT MODE</div> <div>0 10714</div>	

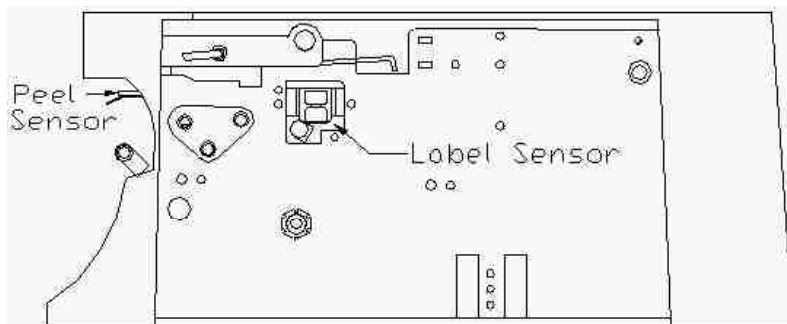
5.1.8 Span Switch Status

KEY TO PRESS	OPERATION
In the Weighing Mode, press    	-- Go to Z mode. -- Then turn on the Span Switch.
<div style="background-color: yellow; padding: 10px; text-align: center;"> TO CLEAR DAILY TRANS PRESS PRINT KEY </div>	

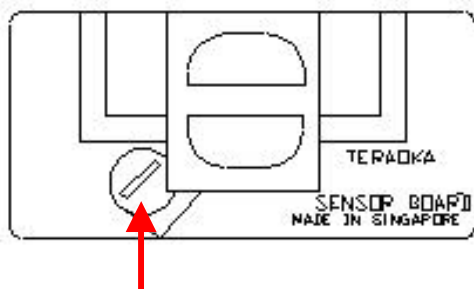
KEY TO PRESS	OPERATION
 + [2][8][4]	-- Indicates SPAN Switch status. -- Back to Z mode, after 1 second.
<div style="background-color: yellow; padding: 10px; text-align: center;"> SPAN SWITCH OFF </div>	

5.2 Adjustment

5.2.1 Location of Gap Sensor And Peel Sensor.



5.2.2 Label Gap Sensor




Adjust this variable resistor for sensor level sensitivity.



The label sensor is to detect the gap between the labels so as to identify the starting position of the label. If the gap is not detected properly, the scale will issue two or more labels. Also different material of label and back paper will have different sensitivity level; the variable resistor beside the label sensor is to adjust the sensitivity to suitable level.




5.2.3 Peel Sensor

To set the peel sensor voltage if the peel sensor is not working normally in some situations like temperature and humidity changed.

The peel sensor voltage can be set automatically by press the # key.


KEY TO PRESS	OPERATION
	-- At R mode.
	



KEY TO PRESS	OPERATION
 + [5][1][5]	-- Go to the Peel sensor adjustment.
	



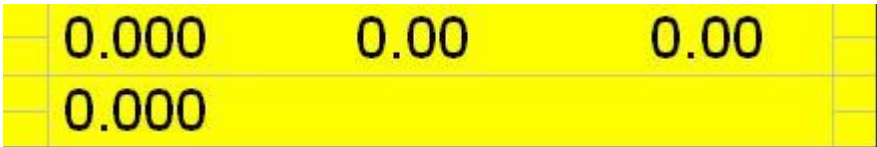
KEY TO PRESS	OPERATION										
	<p>-- Once the key is press, it will auto set the voltage value and Exit to R mode.</p> <p>-- You can enter the value of the peel sensor voltage then press the PLU key to save and Exit to R mode.</p> <p>-- Exit to R mode without doing anything.</p>										
OR											
Enter a value for sensor voltage then press 											
OR											
											
<table><tr><td></td><td>0.000</td><td>0.00</td><td>0.00</td><td></td></tr><tr><td></td><td>0.000</td><td></td><td></td><td></td></tr></table>			0.000	0.00	0.00			0.000			
	0.000	0.00	0.00								
	0.000										

5.2.4 Printing Position

To adjust the printing position when printing is out of alignment. The process only allows adjusting vertical position only.

KEY TO PRESS	OPERATION
	-- At R mode.
	

KEY TO PRESS	OPERATION
 + [5][1][4]	-- Go to Thermal Head calibration.
	

KEY TO PRESS	OPERATION
[2][0]	-- Adjust upward.
OR	
[2][0] 	-- Adjust downward.
OR	
	-- Store new value and Exit to R mode.
	

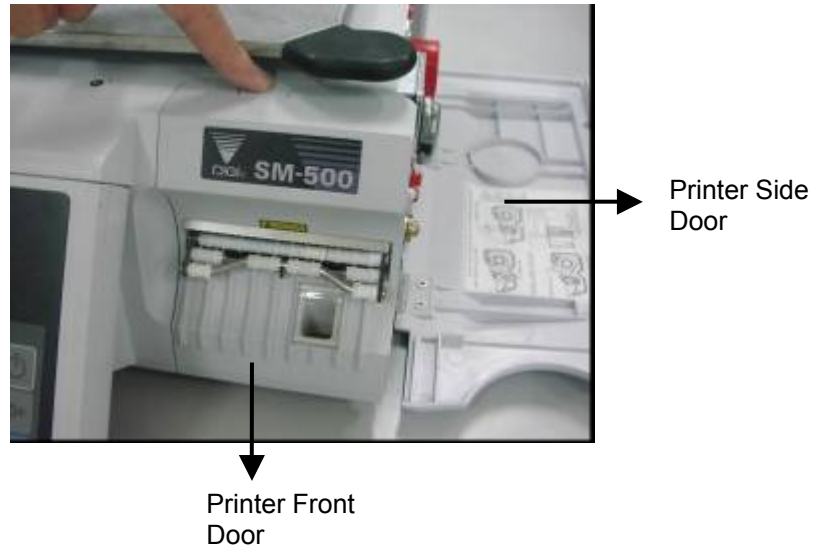
5.3 Maintenance

5.3.1 Thermal Head Cleaning

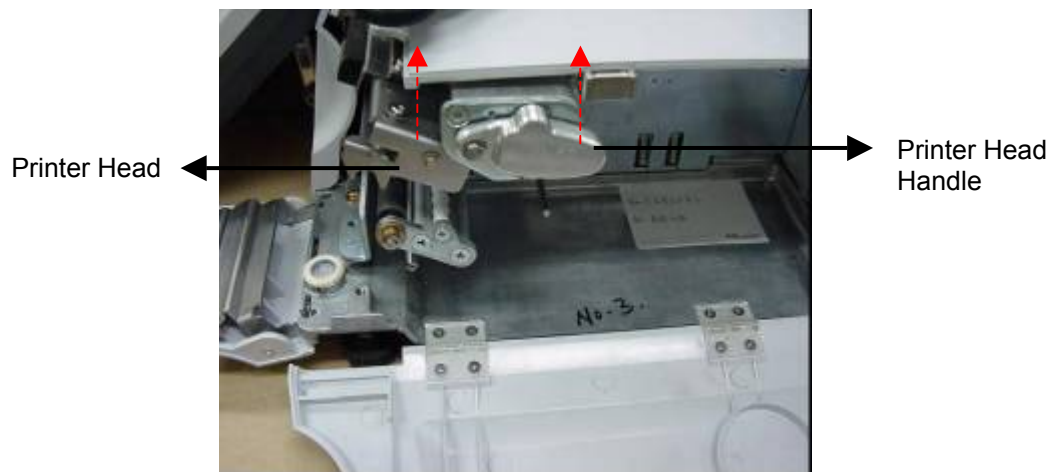
To maintain good quality printouts and long life span for the thermal print head, regular cleaning of the thermal print head is required. Please use the cleaning kit supplied with the product.

Instruction

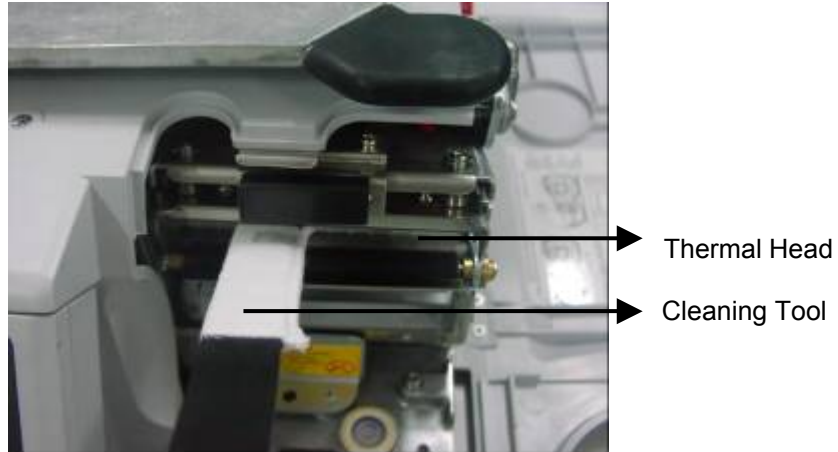
1. Turn **OFF** Scale by Main Power Switch.
2. Open the **Printer Side Door** first, after that press on the top of **Printer Front Door** and pull out the cover toward in front.



3. Push the Printer Head Handle to up for Printer Head in upper position.



4. Use the tip of the **Cleaning Tool** to clean the **Thermal Head** portion as shown:

**CAUTION**

Use only the cleaning pen from the provided cleaning kit

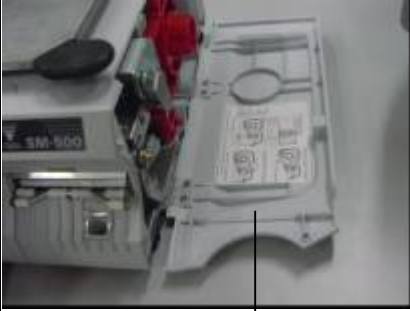
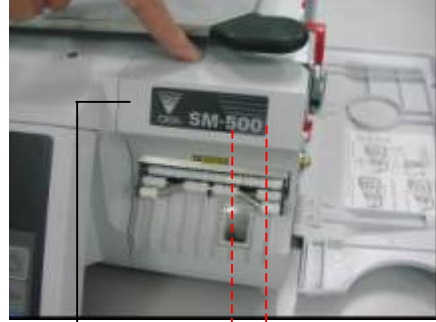
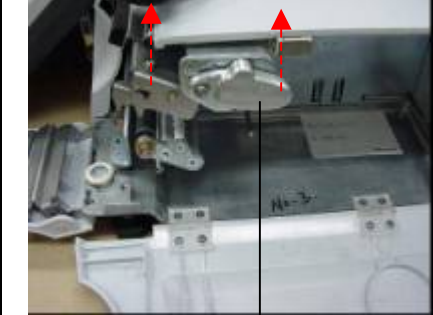
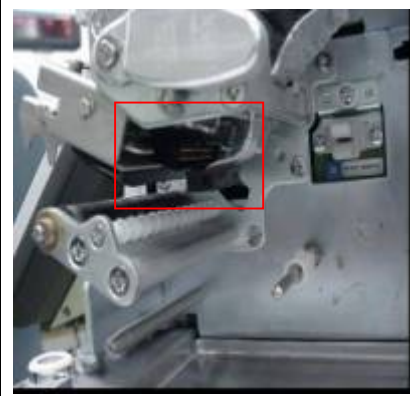

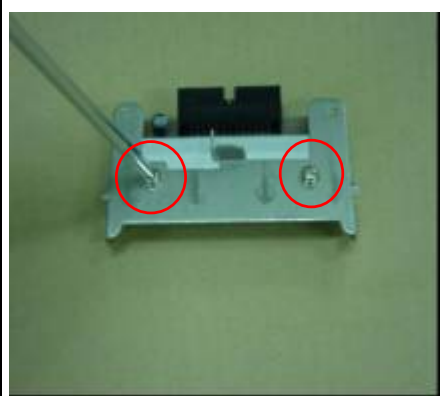
Do not clean or try to remove dirt or anything sticking on thermal head with sharp objects – this will **DAMAGE** the thermal print head.

5. After Finish cleaning press down the Printer Head Handle first, then close the Printer Front Door and Printer Side Door.
6. Turn ON the scale, and depress **[FEED]** key to feed the label.

5.3.2 Basic Maintenance

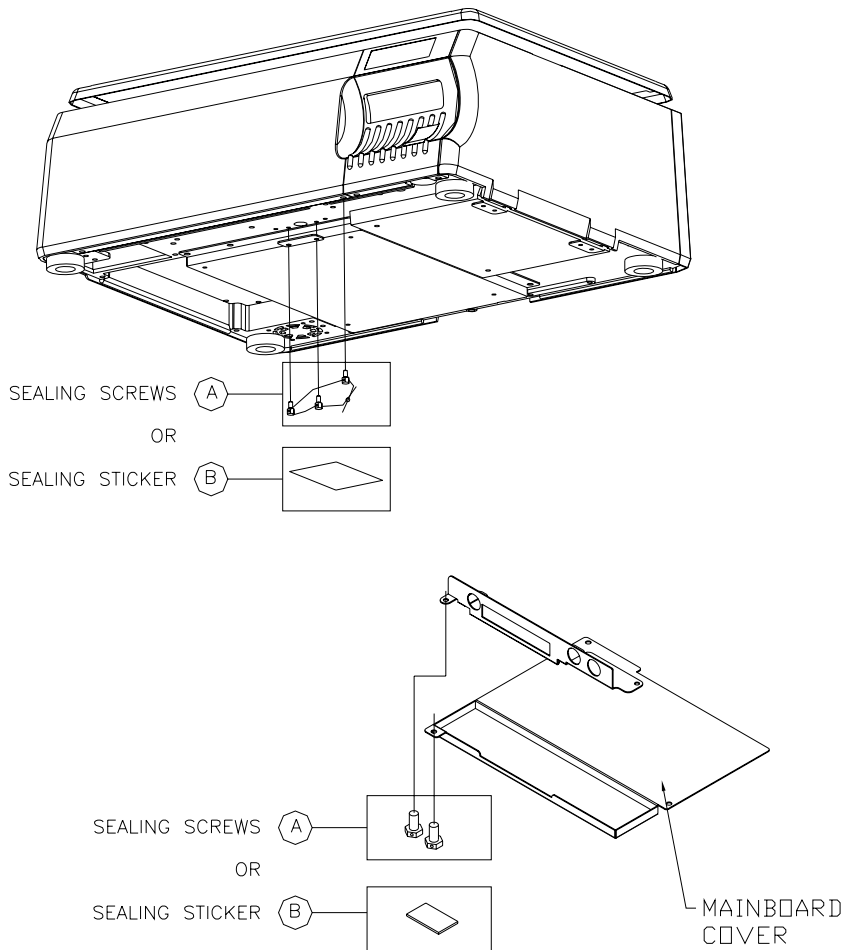
Clean scale surfaces and platter periodically with a soft damp cloth. Do not use alcohol or detergent.

5.3.3 Thermal Head cleaning and replacement

 <p>Printer Side Door</p>	 <p>Printer Front Door</p>	 <p>Printer Head Handle</p>
<p>1. Open the Printer Side Door.</p>	<p>2. Press on the top of Printer Front Door and pull out the cover toward in front.</p>	<p>3. Push the Printer Head Handle to up for Printer Head in upper position.</p>
		
<p>4. Need to take out the Thermal Head wire.</p>	<p>5. Use the Hand push the Thermal Head to up first then pull out the thermal head. (Because the thermal head bracket catch by printer head bracket).</p>	<p>6. Unscrew the 2pcs Sems B M3X6 screw to take out Thermal Head or adjustment the alignments.</p>

5.4 Method of Assembly Sealing Screw & Sticker**5.4.1 All Machine except Console Type****SM500MK4 SEALING METHOD
(ALL VARIANT MODELS)**

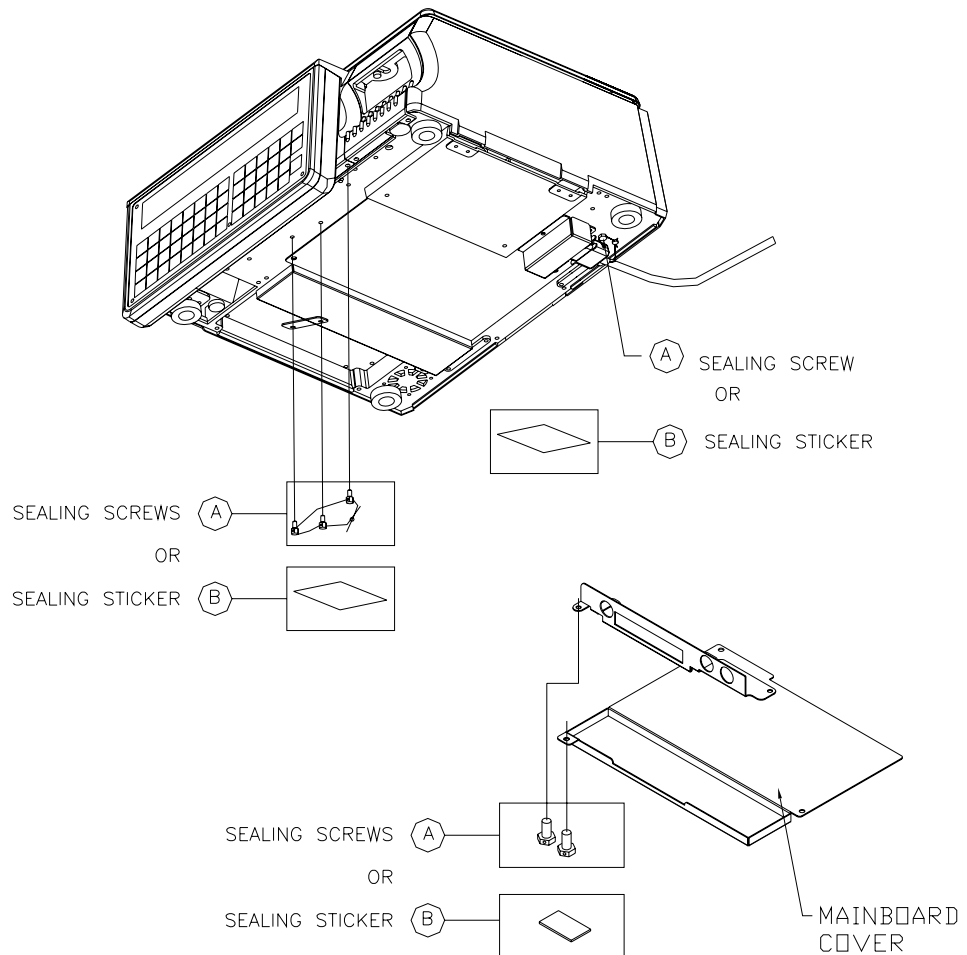
TAW0287



NOTE: WE CAN USE SEALING SCREWS OR SEALING STICKER.

5.4.2 For only Console Type**SM500MK4 WITH EXTERNAL
LOADCELL SEALING METHOD
(ALL VARIANT MODELS)**

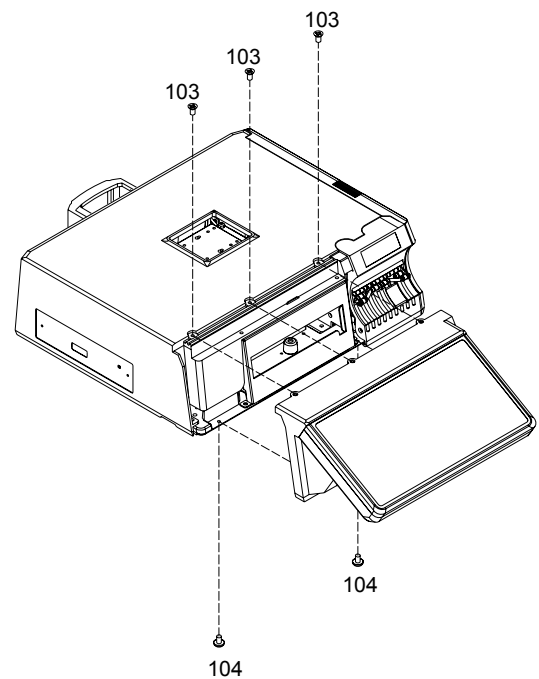
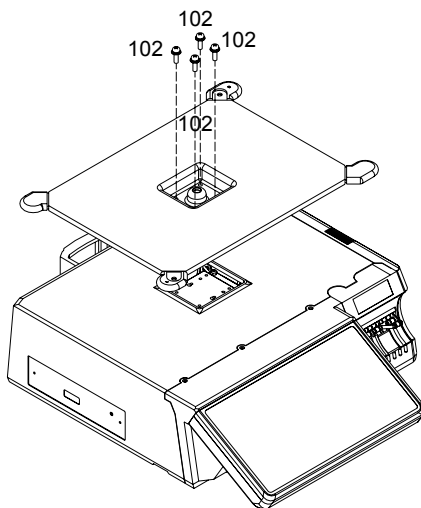
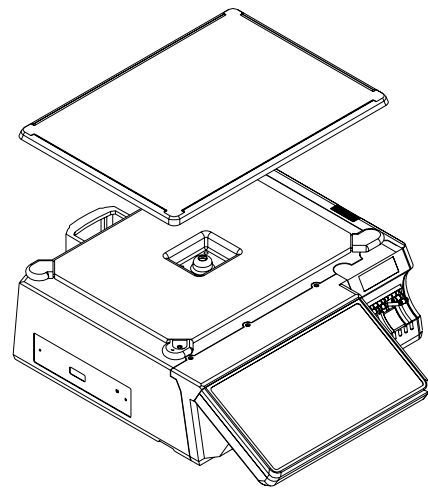
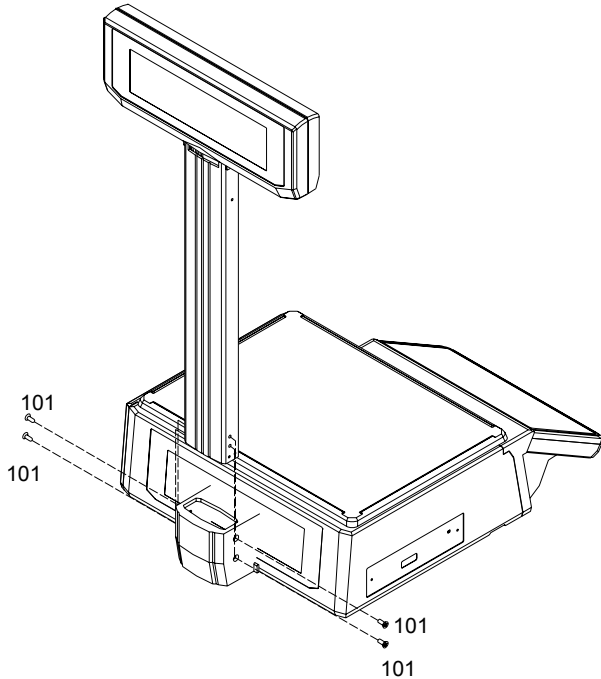
TAW0291



NOTE: WE CAN USE SEALING
SCREWS OR SEALING STICKER.

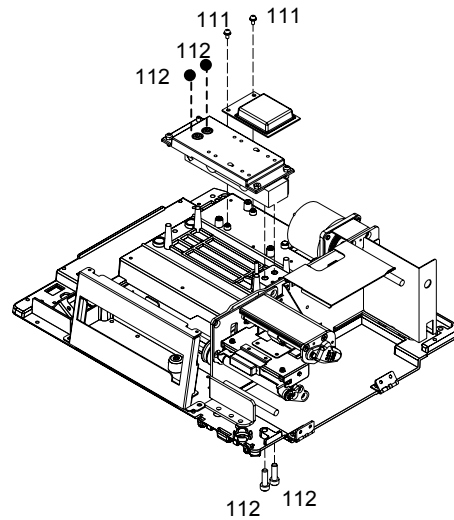
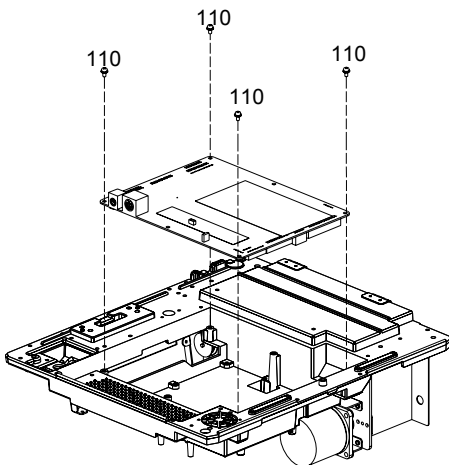
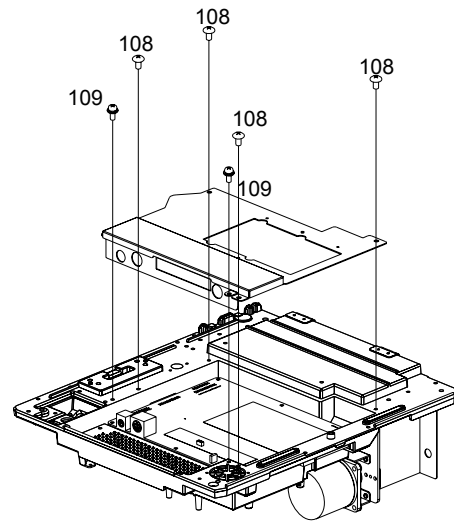
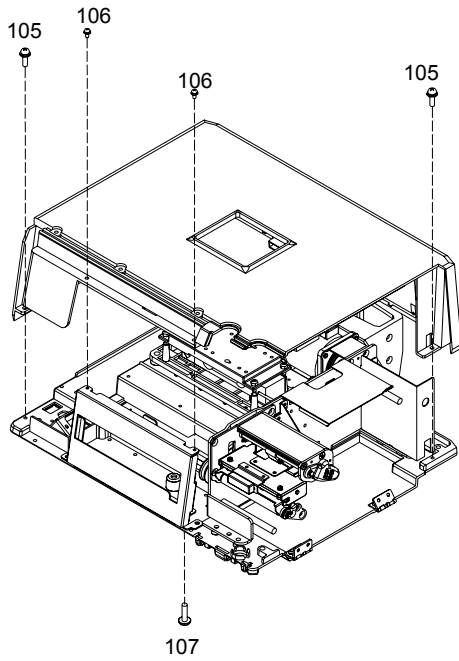
6. DISASSEMBLY

6.1 Pole Type Disassembly



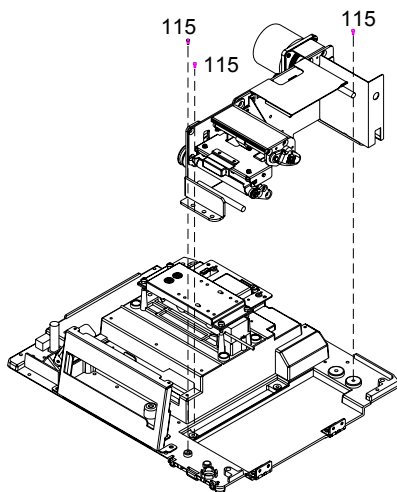
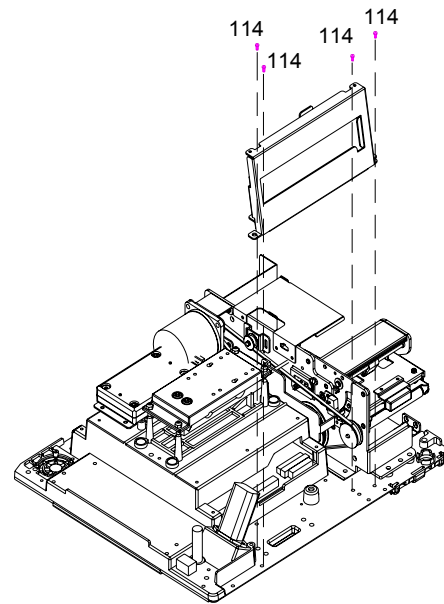
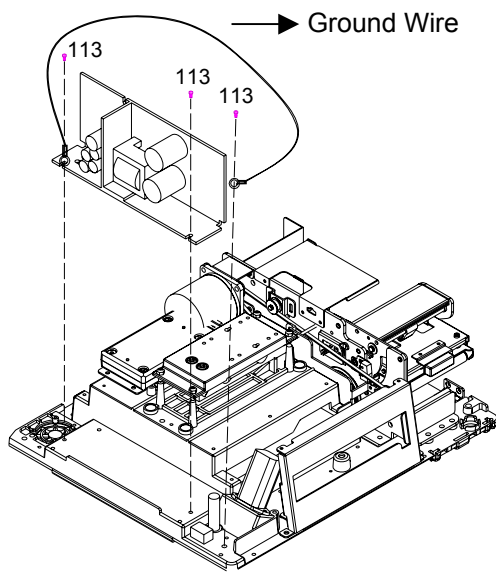
Screw Type :

- 101- Flat Head M4X16 (4pcs)
- 102- Sems B M4X10 (4pcs)
- 103- Flat Head M3X5 (3pcs)
- 104- Truss Head M4X6 (2pcs)



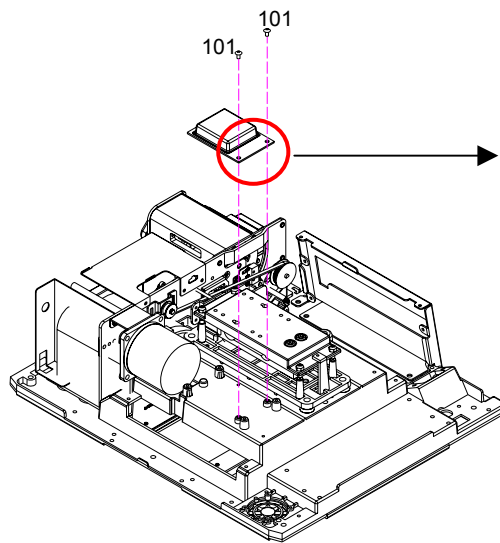
Screw Type :

- 105- Sems B M4X8 (2pcs)
- 106- Sems B M3X8 (2pcs)
- 107- Flat Head M4X16 (1pcs)
- 108- Truss Head M4X16 (4pcs)
- 109- Sems B M4X6 (2pcs)
- 110- Sems B M3X6 (4pcs)
- 111- Binding Head M3X8 (2pcs)
- 112- Allen Cap M6X20 (4pcs)



Screw Type :

- 113- Sems B M4X8 (2pcs)
- 114- Sems B M4X6 (4pcs)
- 115- Sems B M4X12 (3pcs)

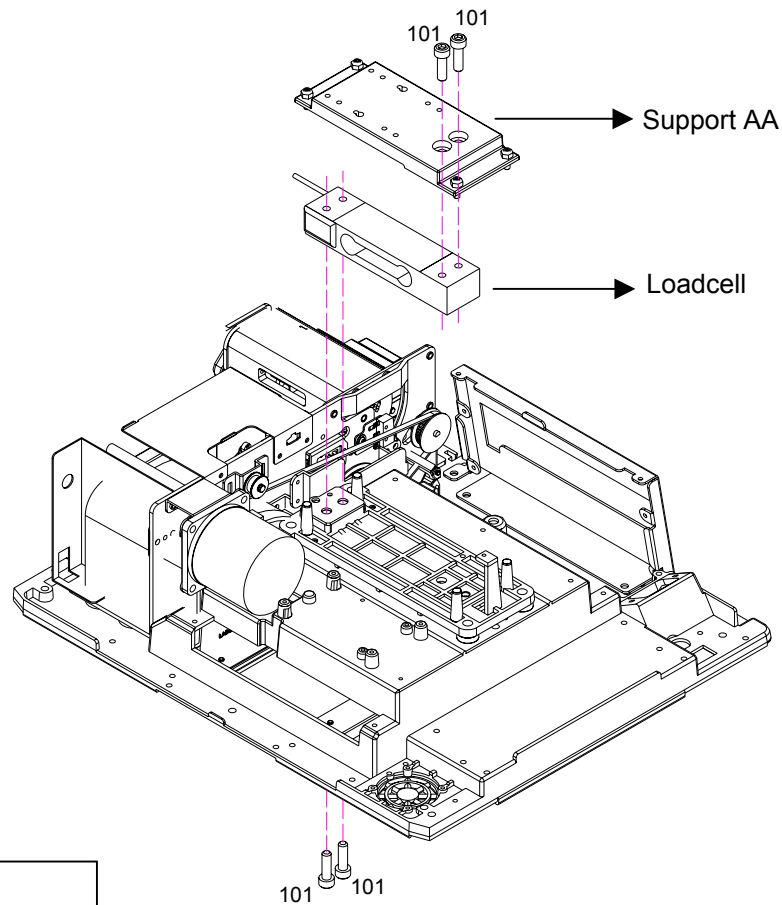
6.2 AD Board DisassemblyLoadcell wire color indication

Green
Blue
White
Red
Black

Screw Type :

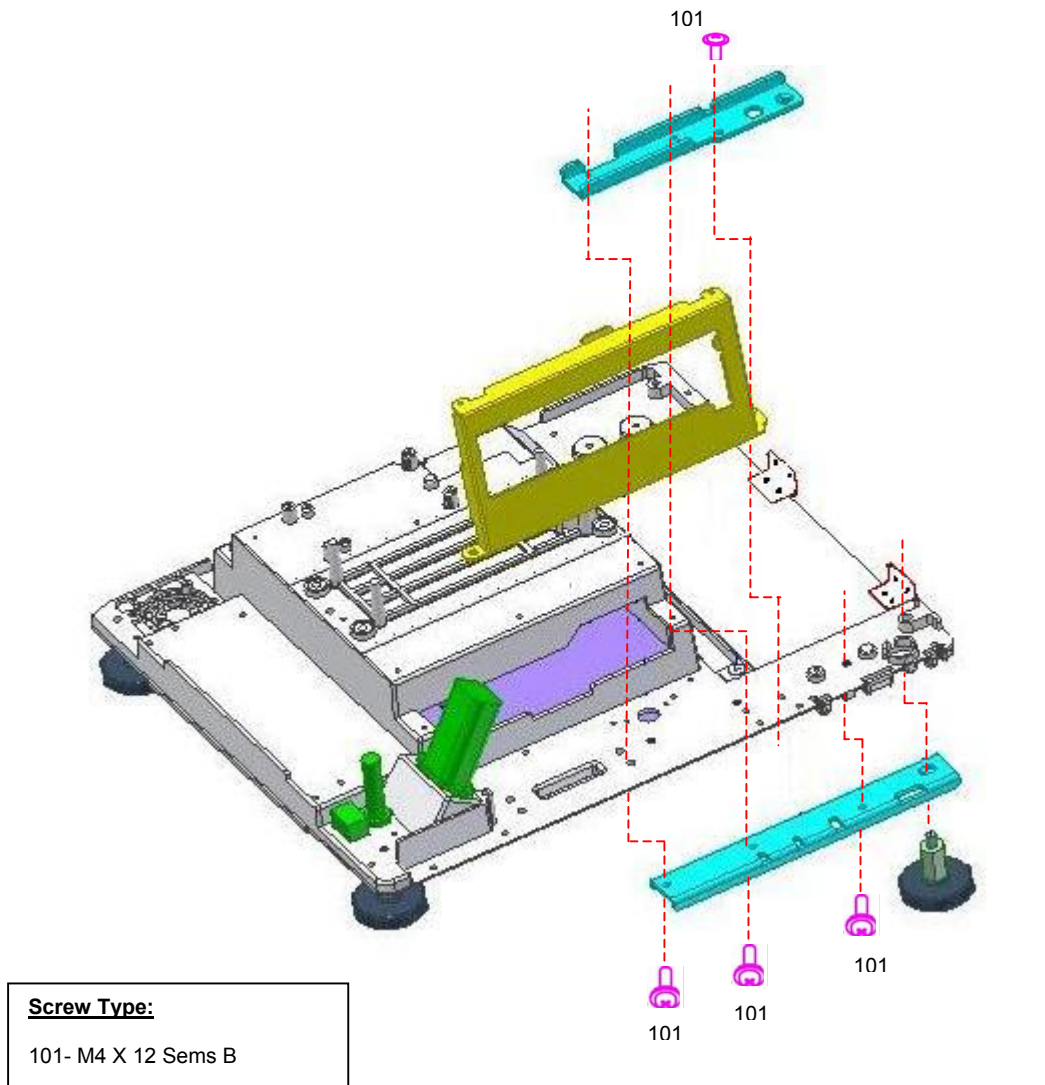
101- Sems B M3X6 (2pcs)

1. To remove the AD Board, solder out the Loadcell wire and then unscrew the 2pcs **Sems B M3X6** screw.

6.3 Loadcell Disassembly**Screw Type :**

101- Allen Cap M4X20

1. To remove the Support AA from Loadcell, unscrew the 2pcs **Allen Cap screw M4X20** from Top.
2. To remove the Loadcell from Base Diecast, unscrew the 2pcs **Allen Cap screw M4X20** from Bottom.

6.4 Extra Bracket Disassembly for 30Kg

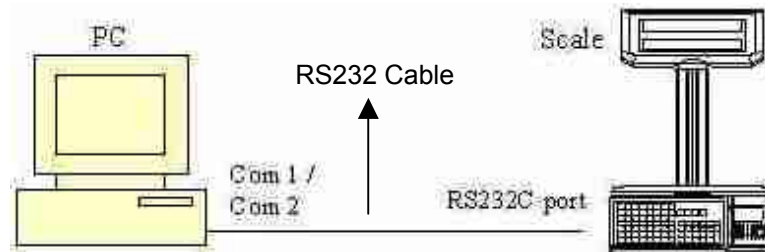
1. To assembly the Bracket EE (30KG, Base Top) tighten 1pcs Sems B screw M4x12 from Top.
2. To assembly the Bracket EF (30KG, Base Bottom) tighten 3pcs Sems B screw M4x12 from Bottom.

7. FIRMWARE UPGRADE

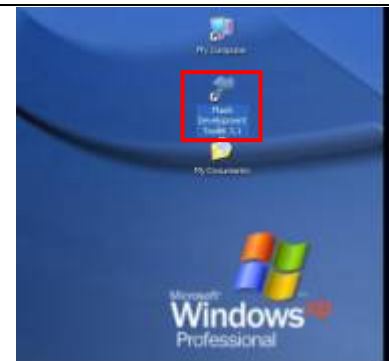
7.1 Boot loader Downloading

The software use for Boot loader downloading to scale is **Flash Development Toolkit 3.1**.

1. PC to scale via RS232C interface.



- 1) Double click open the **[Flash Development Toolkit 3.1]** software.



- 2) When Option icon appears, click the **[Cancel]**.



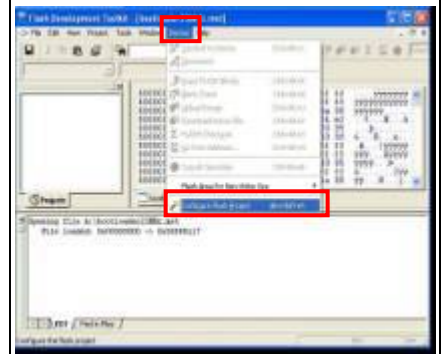
- 3) From the Option Menu, select the **[File → Open An S-Record...]**.




- 4) Click the [bootloader23MH.mot] file from the location where you put and then click the [Open].



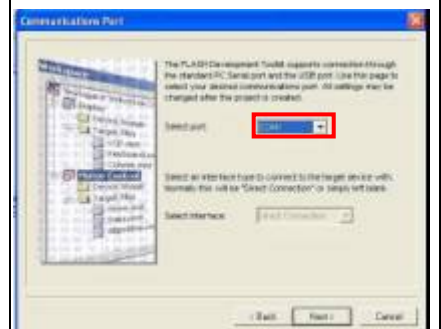
- 5) From the Option Menu select the [Device] → [Configure Flash Project].




- 6) Click the  to select the device [H8/3024F].

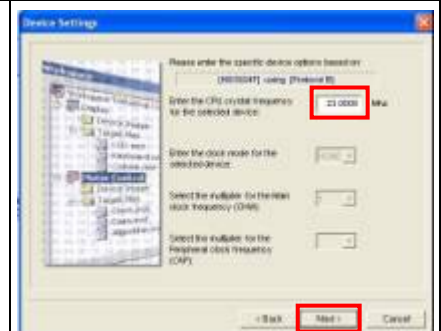


- 7) Click the  to select the port [COM1], then click the .



- 8) In the CPU crystal frequency for selected device, change the default number 25 to [23], then click the  2 time.

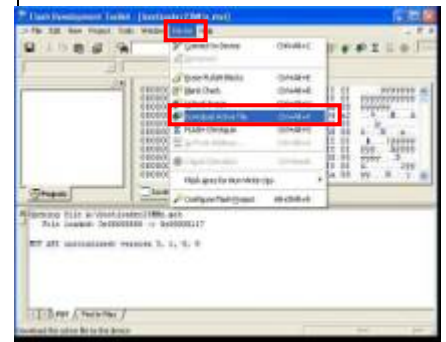
Note: Enter the number 23, it will automatically change to number [23.0000].



9) Click the **Finish**.

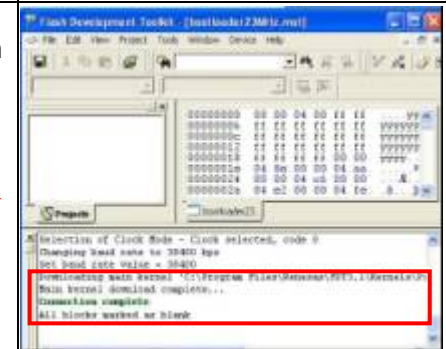


10) From the Option Menu select **[Device] → [Download Active File]**.



11) After boot loader downloading finish, on the screen will shown **[Main kernel download complete... Connection Complete]**.

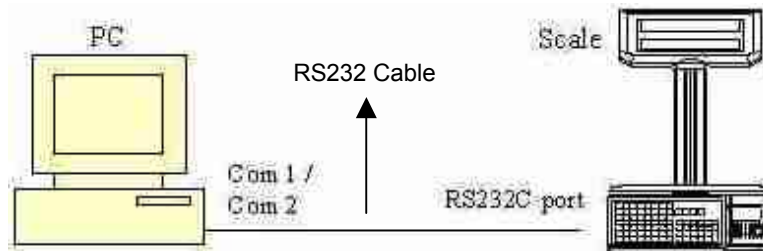
Note: Ensure that after downloading completed, must change back the Mainboard [SW 1] jumper setting.



7.2 Firmware Downloading

The software use for firmware downloading to scale is **Hyper Terminal**.

1. PC to scale via RS232C interface.
2. Plug in the Power Cord connect to Scale. (*Don't on the power first*)




- 1) From the Windows XP software, select **Start → All Programs → Accessories → Communications → Hyper Terminal**.



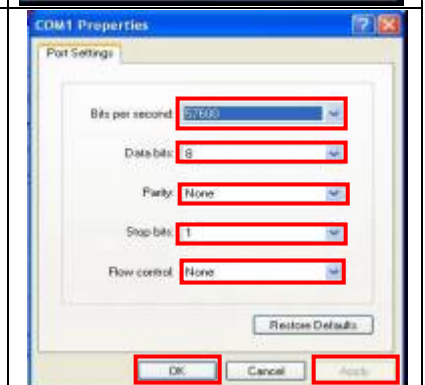
- 2) Once screen appear Connection Description setting. Enter any name (Example: Hyper Terminal) in the blank box, and then click the [OK] button to next step Port setting.

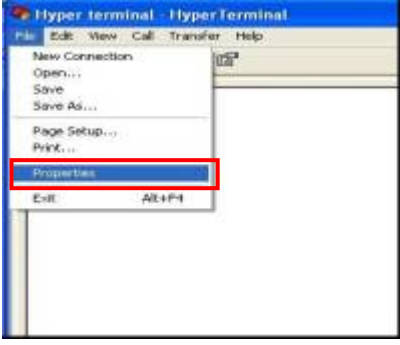

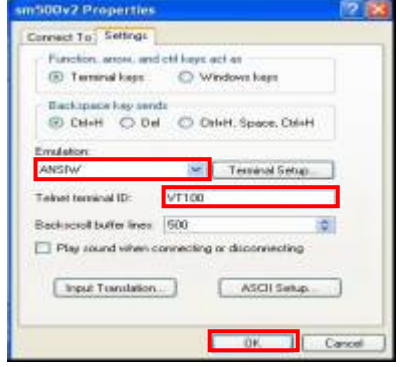
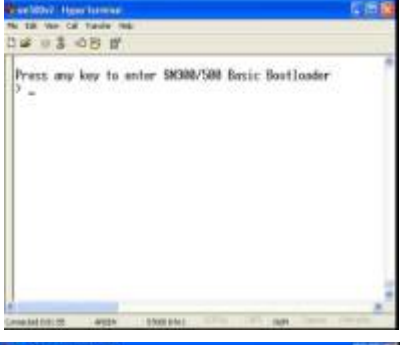
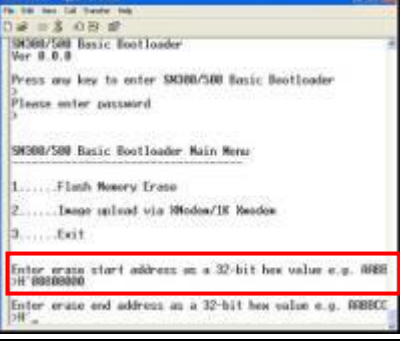
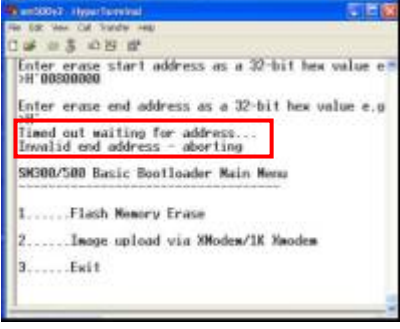


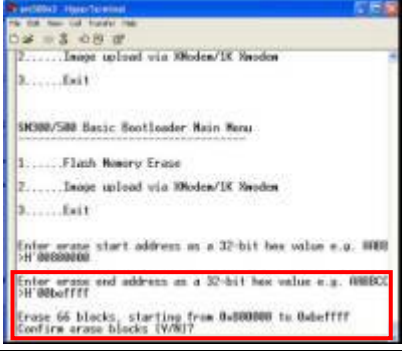
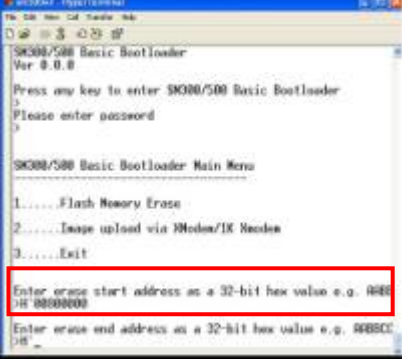
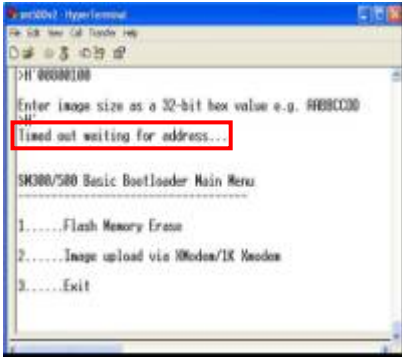
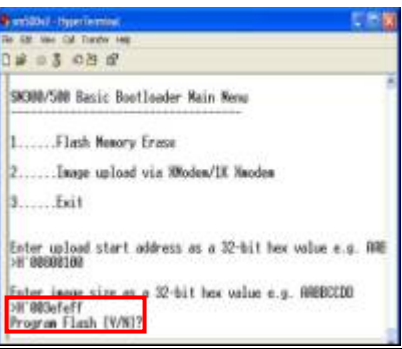
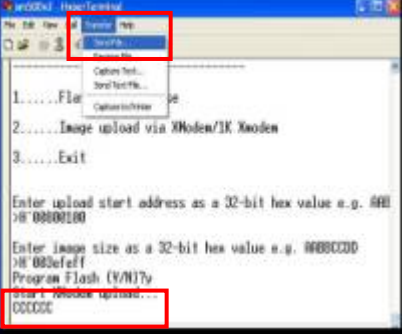
- 3) In the Com 1 Port Settings. Use the  button to change the setting follows by below highlight as shown.




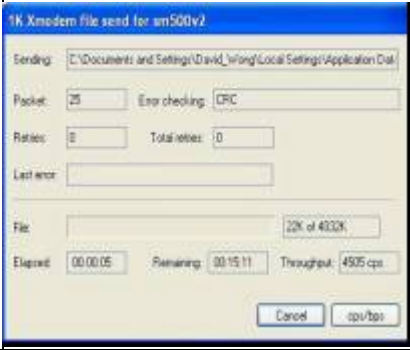
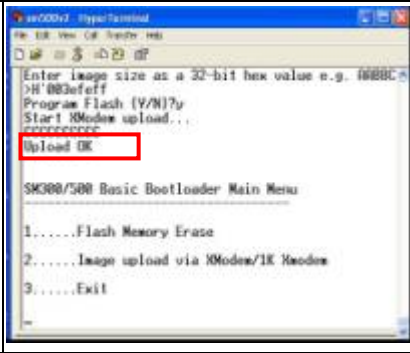

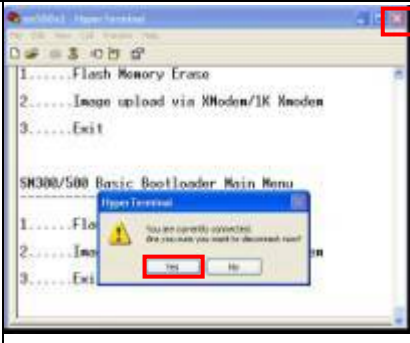
Bits per second: **57600**
 Data bits: **8**
 Parity: **None**
 Stop bits: **1**
 Flow control: **None**

After that click [**Apply**] and [**OK**] button to complete Com Port setting.



<p>4) In the Hyper Terminal software to select [File] → [Properties] to open the properties setting.</p>	
<p>5) Go to Settings Option use the  button to change the setting follow by below highlight as shown.</p> <p>Emulator: ANSIW Telnet terminal ID: VT100</p> <p>Click the [OK] button to exit and go to downloading page.</p>	
<p>6) Switch on the scale power, the screen will shown [Press any key to enter SM300/500 Basic Boot-loader], then press the keyboard [Enter] key button 2 times.</p>	
<p>7)</p> <ol style="list-style-type: none"> On the SM300/500 Basic Boot-loader Main Menu will show [Enter erase <u>start</u> address as a 32-bit hex value e.g. AABBC]. Type in the number [100800000]. <p>Note: When type in the first number “1”, it will automatically convert to “H” “symbol.</p>	
<p>Remarks:</p> <ol style="list-style-type: none"> After next step on the screen shown [Enter erase <u>end</u> address as a 32-bit hex value e.g. AABBC]. Around 3 seconds lead time to continue, if not it will shown the [Timed out waiting for address....]. [Invalid end address – aborting]. You can type in the number [100800000] again and to continue. 	

<p>8)</p> <ol style="list-style-type: none"> After next step on the screen shown [Enter erase <u>end</u> address as a 32-bit hex value e.g. AABBC0]. Type in number & character [00beffff], it will shown the information of Confirm erase block (Y/N). Press the “Y” keyboard button, it will automatically to start erase the blocks data. Need to take time waiting around 5 minutes for process. 	
<p>9)</p> <ol style="list-style-type: none"> After Blocks data erase, the screen will go back to SM300/500 Basic Bootloader Main Menu. For the [Enter upload start address as.....] Type in the number [200800000]. <p>Note: When type in the first number [2], it will automatically convert to [H] symbol.</p>	
<p>Remarks:</p> <ol style="list-style-type: none"> After next step on the screen shown [Enter erase <u>end</u> address as a 32-bit hex value e.g. AABBC0]. Around 3 seconds lead time to continue, if not it will display the [Timed out waiting for address...] You can type in the number [200800000] from last step 9) c) again and then to continue. 	
<p>10)</p> <ol style="list-style-type: none"> When the screen shown [Enter image size as a 32-bits.....] Type in the number & character [003effff]. The screen will show [Program Flash (Y/N)]? Press the [Y] keyboard button. 	
<p>11)</p> <ol style="list-style-type: none"> When the screen show [Start XModem Upload...] and [CCC....]. From the Option Menu, select Transfer → Send File... 	

<p>12) Select the Software/File where the software/file allocate, and then click the [Open] button.</p>	
<p>13) When the screen appear Send File page, click the [Send] button.</p> <p><i>Note: Ensure the [Protocol] option, using  to select [1K Xmodem]</i></p>	
<p>14) The downloading and upgrade the software needs to take time waiting around 15 minutes for process.</p>	
<p>15) When the screen shown [Upload OK] and automatically goes back to Main Menu, that meaning the downloading/upgrade the software is completed.</p>	
<p>16) Click the  button the screen will show the information of disconnected. And then click the [Yes] button to close the Hyper Terminal program.</p>	

8. HARDWARE SETTING

8.1 Main Board Jumper Setting

Below is Main Board jumper setting for SM500MK4 using 300 LCD, If the jumper setting wrongly to set, the display will not function/working properly.

Both LCD (Operator and Customer) are using 300LCD, then follow the below table

Type of LCD	JP4	JP5
300LCD	Short 2 & 3	Short 2 & 3

Note: This setting is Default Setting for SM500MK4 Main Board.

9. MISCELLANEOUS

9.1 Error Messages

Error No.	Error Message	Causes
0	PRINTER CASSETTE OPEN	Cassette not inserts properly. Re-insert cassette again.
1	PAPER END	Label sensor sense no label. No more labels. Replace label roll.
2	PLEASE PRESS FEED KEY	Label miss feed, press FEED key to align label.
3	PLEASE PEEL LABEL	Peel sensor activated, remove label away from sensor.
4	CHANGE LABEL SWITCH	Remove cassette and set cassette switch to Label.
5	CHANGE RECEIPT SWITCH	Remove cassette and set cassette switch to Receipt.
6	NON PRINT	No manual printing.
7	UNIT PRICE OVERFLOW	Please check unit price
8	TOTAL PRICE OVERFLOW	Accumulated total price is overflow, check unit price.
9	NON LABEL	No free format is programs. Set a free format or use standard format.
10	INSUFFICIENT SPACE	Not enough printing place.
11	NON ADVERTISEMENT	No such advertisement data or number exists.
12	READ FILE	Read file errors. Memory problem. Please clear the memory.
13	NON SHOP NAME	No such shop name data or number exists.
14	PRINTER HEAD NO CLOSE	Thermal head no closed. Please close thermal head.
15	WRITE FILE	Write file errors. Memory problem. Please clear the memory
16	NO MEMORY	Not enough memory. Expand memory or delete unnecessary data.
17	FILE DELETE ERROR	Delete file errors. Memory problem.
18	PLEASE REMOVE WEIGHT	Fixed price item, please remove weigh.
19	PLU NOT EXIST	No such PLU data or number exists.
20	TOTAL PRICE = 0	No total price for item. Unit price or weight is 0.
21	WEIGH ITEM	Multiplication key cannot use for weigh PLU.
22	CANNOT USE IN PRE-PACK	Accumulation is not allowed in Pre-pack mode.
23	PRESET KEY NOT SET	Preset key does not have any preset function or PLU.
24	WEIGHT OVERFLOW	Weight over maximum capacity when print.
25	NEGATIVE TOTAL PRICE	After discount, total price is negative. Check discount setting.
26	TOTAL PRICE OVERFLOW	Total price over the limit to display or print.
27	ILLEGAL OPERATION	Operation procedure is incorrectly, please check procedure.
28	QUANTITY = 0	Cannot print when quantity is 0. Please enter a quantity value.
29	PLEASE SET TARE VALUE	When force tare is enabling, a tare weight must be entered.
30	KEY INVALID	Key pressed had no function or invalid in certain function.
31	NUMBER INVALID	Only input number or number input is not in the function.
32	EXCEED MAX LIMIT	Max. Number of characters reach.
33	SIZE INVALID	No such character size exists. Check the downloaded files.
34	MAIN GROUP NOT EXIST	No such Main Group data or number exists.
35	PLU INVALID	No such PLU data when copy PLU.

36	DEPARTMENT NOT EXIST	No such Department data or number exists.
37	TAX FILE NOT EXIST	No such Tax data or number exists.
38	CLERK NOT EXIST	No such Clerk data or number exists.
39	PLEASE PRESS PLU KEY	Press PLU (#) key. To save data in some procedure.
40	DATE INVALID	Date is not in standard format. Please enter correct date format.
41	TIME INVALID	Time is not in standard format. Please enter correct time format.
42	FUNCTION NOT EXIST	No such function exists. Check SPEC.
43	KEY NOT ASSIGN	Preset key data to be deleted do not exist.
44	KEY ALREADY ASSIGNED	Preset key already been assigned with function or PLU.
45	LOGO NOT EXIST	No such logo data or number exists.
46	LABEL INVALID	No such label data.
47	PLU NOT AVAILABLE	No such PLU data when scanner is use to scan PLU no.
48	DATA INVALID	U1 only. Quantity setting incorrect when using FOR.
49	QUANTITY OVERFLOW	Quantity data over the limit.
50	NO LINK	No acknowledge from FL-1 when sending or receiving data.
51	SYSTEM ERROR	Error when files sending to and receiving from FL-1
52	VERIFY ERROR	Error when verifying files with FL-1.
53	TIME ERROR	Date and time invalid when printing. Reset date and time.
54	BELOW MIN WEIGHT	Weight is below min weight set when printing.
55	REC CHOSEN USED IN MG	The record to be deleted is used by main group.
56	REC CHOSEN USED IN PLU	The record to be deleted is used by PLU data.
57	ACC PRICE OVERFLOW	Accumulated price over the limit.
58	ACC QUANTITY OVERFLOW	Accumulated quantity over the limit.
59	PLEASE SET LABEL QTY	Set print label quantity when the function is use.
60	NOT PREPACK MODE	Some functions only valid in Pre-pack mode.
61	GRAND TOTAL OVERFLOW	Grand total price over the limit.
62	ORG PRICE OVERFLOW	Original price over the limit when discount is use.
63	INGREDIENT NOT EXIST	No such ingredient data or number exists.
64	SPECIAL MSG NOT EXIST	No such special message data or number exists.
65	TEXT NOT EXIST	No such text data or number exists.
66	CLERK ASSIGN	Clerk already assigned. Please choose another clerk.
67	NO PRINT AREA	No print area on label for some function like text, ingredient etc.
68	USER INGRE NOT EXIST	No such user ingredient data or number exists.
69	INSUFF ADVERT SPACE	No enough print area to print advertisement.
70	DISCOUNT PRICE INVALID	Target price not reach for Fixed Price discount.
71	PRINT INHIBITED	Cannot print weigh item at Pre-pack mode.
72	ORG UPRICE OVERFLOW	Original unit price over the limit when discount in use.
73	PLACE NOT EXIST	No place of production data or number exists.
74	SELF SERVICE MODE	Can only use for Self-service function only.
75	OFF LINE	Client cannot connect with Server.
76	TIME OUT	Time out error.
77	PLACE INSUFF SPACE	Data of place of location print area not enough.
78	NO ITEM CODE	Using of function key-Item code
79	IMAGE NOT EXIST	No such image data or number exists.
80	EXCESS DATA	No such data to be correct when correction of data.
81	WEIGHT TOO LIGHT	Weigh check function.
82	WEIGHT TOO HEAVY	Weigh check function.
83	CLEAR ACCUMULATION	Clerk accumulation not close when clearing transaction in floating clerk.
84	POINT AND SHOP	Can only use Point And Shop procedure only.
85	SCROLL MSG NOT EXIST	No such scroll message data or number exists.
86	SCROLL SEQ NOT EXIST	No such scroll sequence data or number exists.
87	SCROLL SEQUENCE IN USE	Scroll sequence already been use. Choose another sequence.
88	REC CHOSEN USE IN SCSQ	The scroll message data is in used in the scroll sequence.
89	CLERK FILE FULL	Maximum number of clerk use.
90	CLERK IN USE	Calling the same clerk at the same time when in floating clerk.
91	ETHERNET COM. ERROR	Server down. Check wire and sever scale.

9.2 Corresponding Key of IBM Keyboard

The IBM keyboard can directly connect to the SM500MK4 in the IBM keyboard port at the bottom of the scale. It can only function when in the S mode (Programming mode). And the IBM keyboard wire connector must using PS2 connector.

IBM KEYBOARD	SM500MK4 KEYBOARD
F1	PRESET KEY 55 (Char size)
F2	TARE (T)
F3	CODE PLU (#)
F4	CHANGE
F6	X
F7	MODE (M)
ENTER	TOTAL PRINT (To save and advance)
BACKSPACE	CLEAR (C)
←	PRESET KEY 7 (<<)
→	PRESET KEY 8 (>>)
↑	—
↓	TOTAL PRINT (Advance)
DEL	PRESET KEY 56 (Del)
INS	PRESET KEY 47 (Ins)
CAPS LOCK	PRESET KEY 48 (Letter size)

9.3 ASCII Characters

The table shown below is the common use of characters of ASCII code in HEX value. Please enter the hex value when entering commodity name, advertisement, shop name, clerk name, special name, ingredient, and text etc. when using the SM500MK4 BENCH TYPE.

A	B	C	D	E	F	G	H	I	J	K	L	M
41	42	43	44	45	46	47	48	49	4A	4B	4C	4D
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
4E	4F	50	51	52	53	54	55	56	57	58	59	5A
a	b	c	d	e	f	g	h	i	j	k	l	m
61	62	63	64	65	66	67	68	69	6A	6B	6C	6D
n	o	p	q	r	s	t	u	v	w	x	y	z
6E	6F	70	71	72	73	74	75	76	77	78	79	7A
0	1	2	3	4	5	6	7	8	9	:	;	<
30	31	32	33	34	35	36	37	38	39	3A	3B	3C
Space	!	"	#	\$	%	&	'	()	*	+	,
20	21	22	23	24	25	26	27	28	29	2A	2B	2C
-	.	/	=	>	?	@	■					
2D	2E	2F	3D	3E	3F	40	5E					
.	±	≥	≤									
E9	F1	F2	F3									

REMARKS: The small letter only can print at label but cannot print at receipt.

9.4 TERAOKA Code

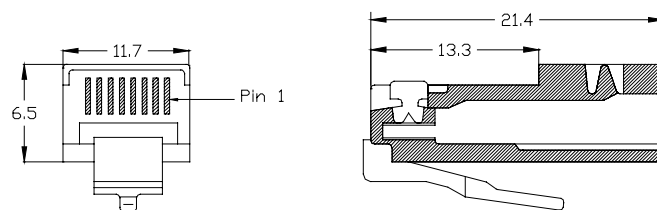
The table shown below is the common use of characters of TERAOKA code in numerical value. Please enter the numerical value when entering commodity name, advertisement, shop name, clerk name, special message, ingredient, text etc. when using the SM 500MK4 **BENCH TYPE**.

Space	A	B	C	D	E	F	G	H	I
00	01	02	03	04	05	06	07	08	09
J	K	L	M	N	O	P	Q	R	S
10	11	12	13	14	15	16	17	18	19
T	U	V	W	X	Y	Z	,	.	-
20	21	22	23	24	25	26	27	28	29
0	1	2	3	4	5	6	7	8	9
30	31	32	33	34	35	36	37	38	39
@	!	"	#	\$	%	&	/	()
40	41	42	43	44	45	46	47	48	49
,									
50									

9.5 Wire And Connector

9.5.1 Straight & Crossover Ethernet Cable

Straight cable is for Client / Server connection. Crossover cable is for Hub-to-Hub connection. (Some models of the Hub do not need crossover cable for Hub-to-Hub connection. Please refer to the Hub operation manual if in doubt)



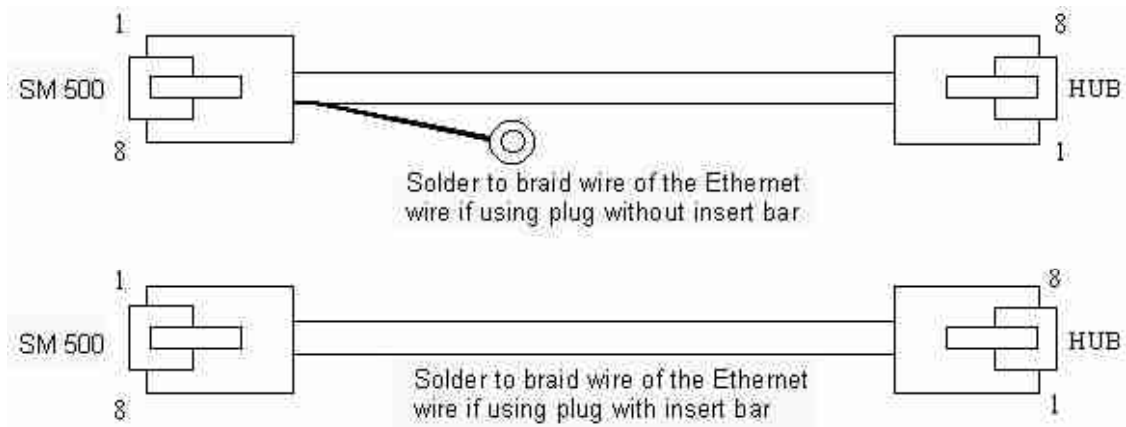
Preferable type: CviLux

Preferable type: CviLux CJP3 / CviLux CJP4 (with insert bar)

CABLE TYPE

Cable type: 4 pair 100MHz Cat.5 AWG 24 or 26 UTP / FTP / STP.

Preferable type: Cat.5 AWG 24 or 26 FTP/ Cat.5 AWG 24 or 26 STP (Recommended for CISPR 22B conformance)



Straight Cable Connection

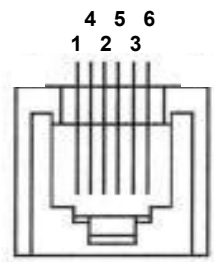
SCALE		HUB	
PIN	SIGNAL	SIGNAL	PIN
1	TX+	TX+	1
2	TX-	TX-	2
3	RX+	RX+	3
6	RX-	RX-	6
5,7,8	N.A.	N.A.	5,7,8

Cross Cable Connection

SCALE / HUB		SCALE / HUB	
PIN	SIGNAL	SIGNAL	PIN
1	TX+	RX+	3
2	TX-	RX-	6
3	RX+	TX+	1
6	RX-	TX-	2
5,7,8	N.A.	N.A.	5,7,8

9.5.2 Cash Drawer Option (RJ11)

SM-500MK4 SCLAE SIDE (Interface Board)



RJ11 Connector

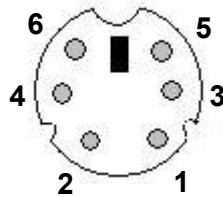
Note:

This connector is used for Interface Board TWB-01750-1.

Pin	Signal	Function
1	FG	Frame Ground
2	DRAWER 1	Drawer 1 drive signal
3	DRSW	Drawer Switch Input
4	VDR	Drawer Drive Power Supply
5	DRAWER 2	Drawer 2 Drive Signal
6	GND	Common Ground On Circuit

9.5.3 PS2 Keyboard Option

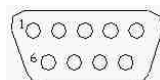
PS2 IBM Keyboard Connector (Main Board Side)



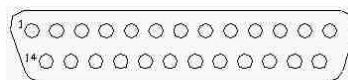
Pin	Signal
1	DATA
2	NC
3	GND
4	VCC
5	CLK
6	NC

9.5.4 RS232C and Multi-Drop (4 Line, RS485) Wire

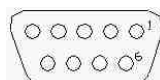
Connector Type



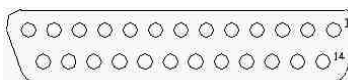
9 Pin D-Sub Connector
Female (Back View)



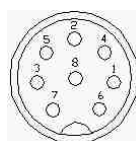
25 Pin D-Sub Connector
Female (Back View)



9 Pin D-Sub Connector
Male (Back View)



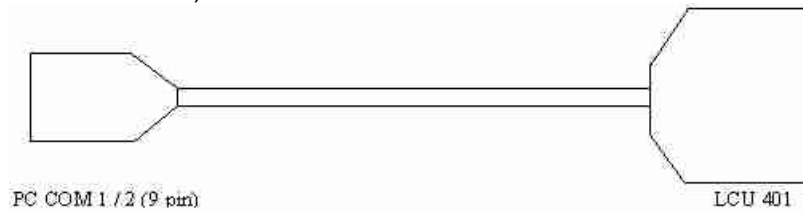
25 Pin D-Sub Connector
Male (Back View)



8 Pin DIN Plug
Male (Front View)

PC (9 PIN) TO LCU 401

(FOR PC to LCU 401 communication)



9 Pin D-Sub (Female)

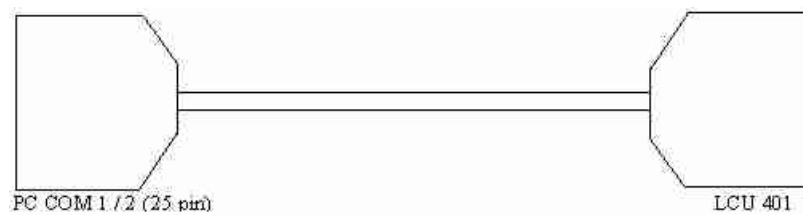
Pin	Signal
1	CD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	CI

25 Pin D-Sub (Male)

Signal	Pin
CD	8
RXD	3
TXD	2
DTR	20
GND	7
DSR	6
RTS	4
CTS	5
CI	22

PC (25 PIN) TO LCU 401

(For PC to LCU 401 communication)



25 Pin D-Sub (Female)

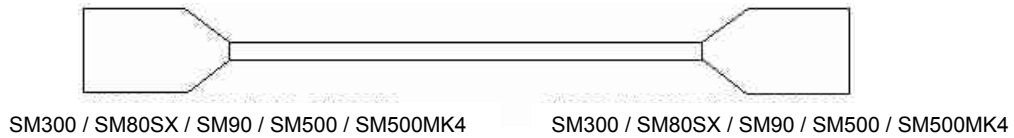
Pin	Signal
2	TXD
3	RXD
4	RTS
5	CTS
6	DSR
7	GND
8	CD
20	DTR
22	CI

25 Pin D-Sub (Male)

Signal	Pin
TXD	2
RXD	3
RTS	4
CTS	5
DSR	6
GND	7
CD	8
DTR	20
CI	22

SCALE TO SCALE

(For LCU 401 to scale and scale-to-scale communication)

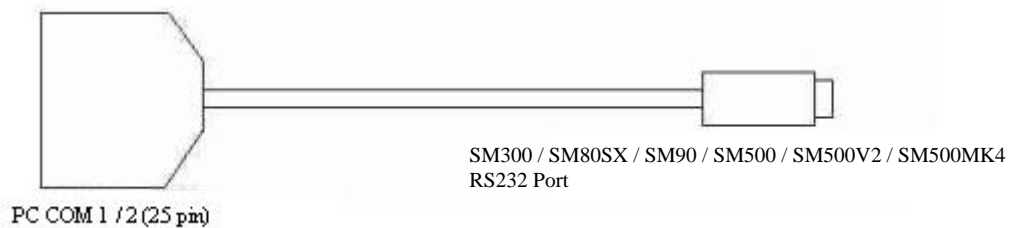


9 Pin D-Sub (Male)			9 Pin D-Sub (Male)	
Pin	Signal		Signal	Pin
1	IN		IN	1
2	IN		IN	2
3	OUT		OUT	3
4	OUT		OUT	4
5 to 8	N.C.		N.C.	5 to 8
9	GND		GND	9

REMARKS: Please solder the FG (Film Ground) of the cable to the metal casing of the connector for more isolation to noise.

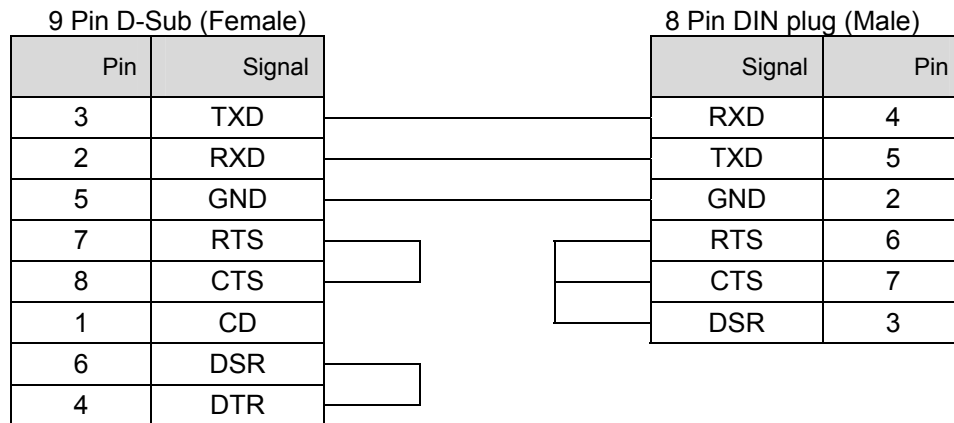
PC (25 PIN) TO SCALE RS232C PORT

(For PC and PC FL-1 communication)



25 Pin D-Sub (Female)			8 Pin DIN plug (Male)	
Pin	Signal		Signal	Pin
2	TXD		RXD	4
3	RXD		TXD	5
7	GND		GND	2
4	RTS		RTS	6
5	CTS		CTS	7
8	CD		DSR	3
6	DSR			
20	DTR			

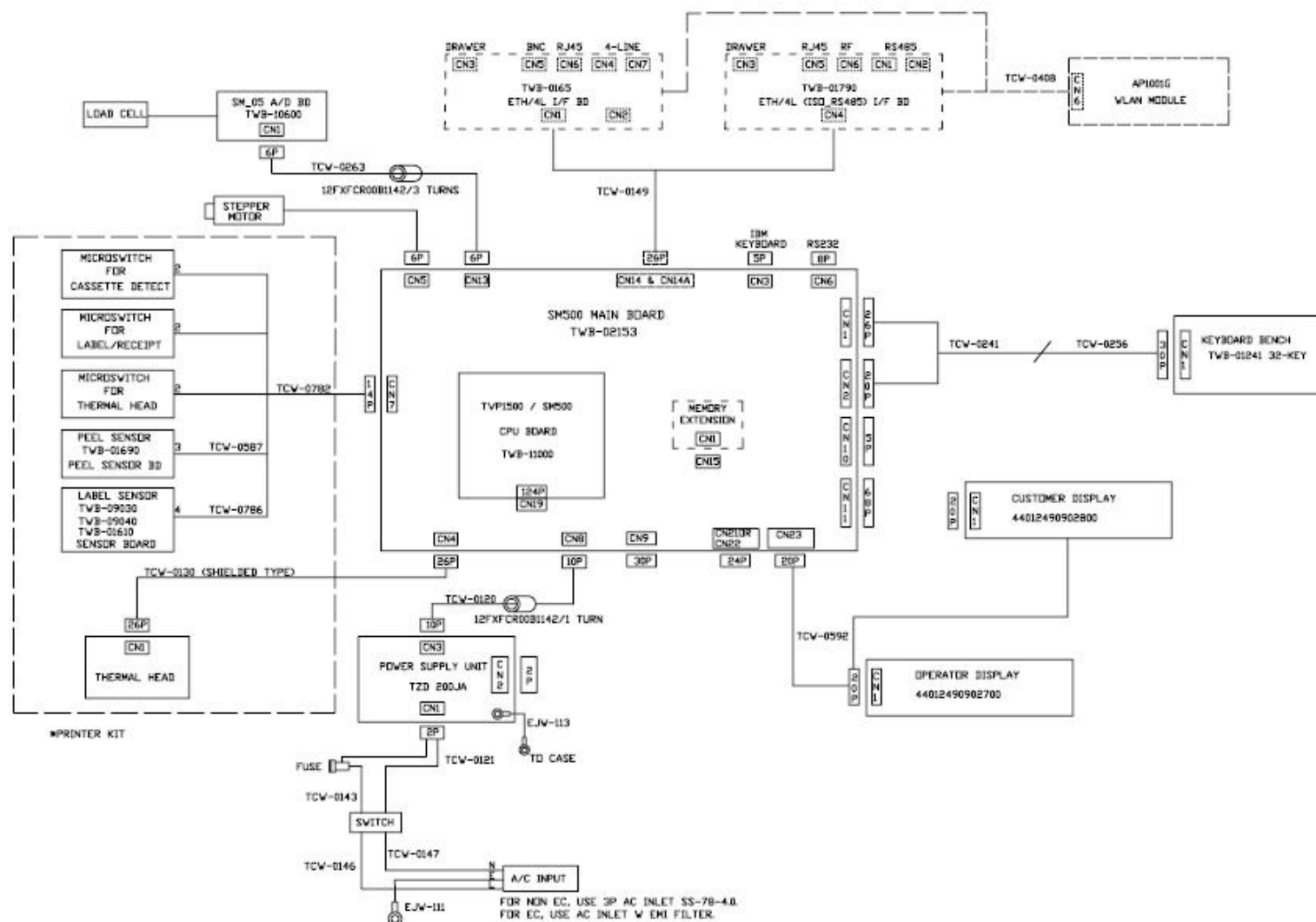
PC (9 PIN) TO SCALE RS232C PORT
(For PC and PC FL-1 communication)



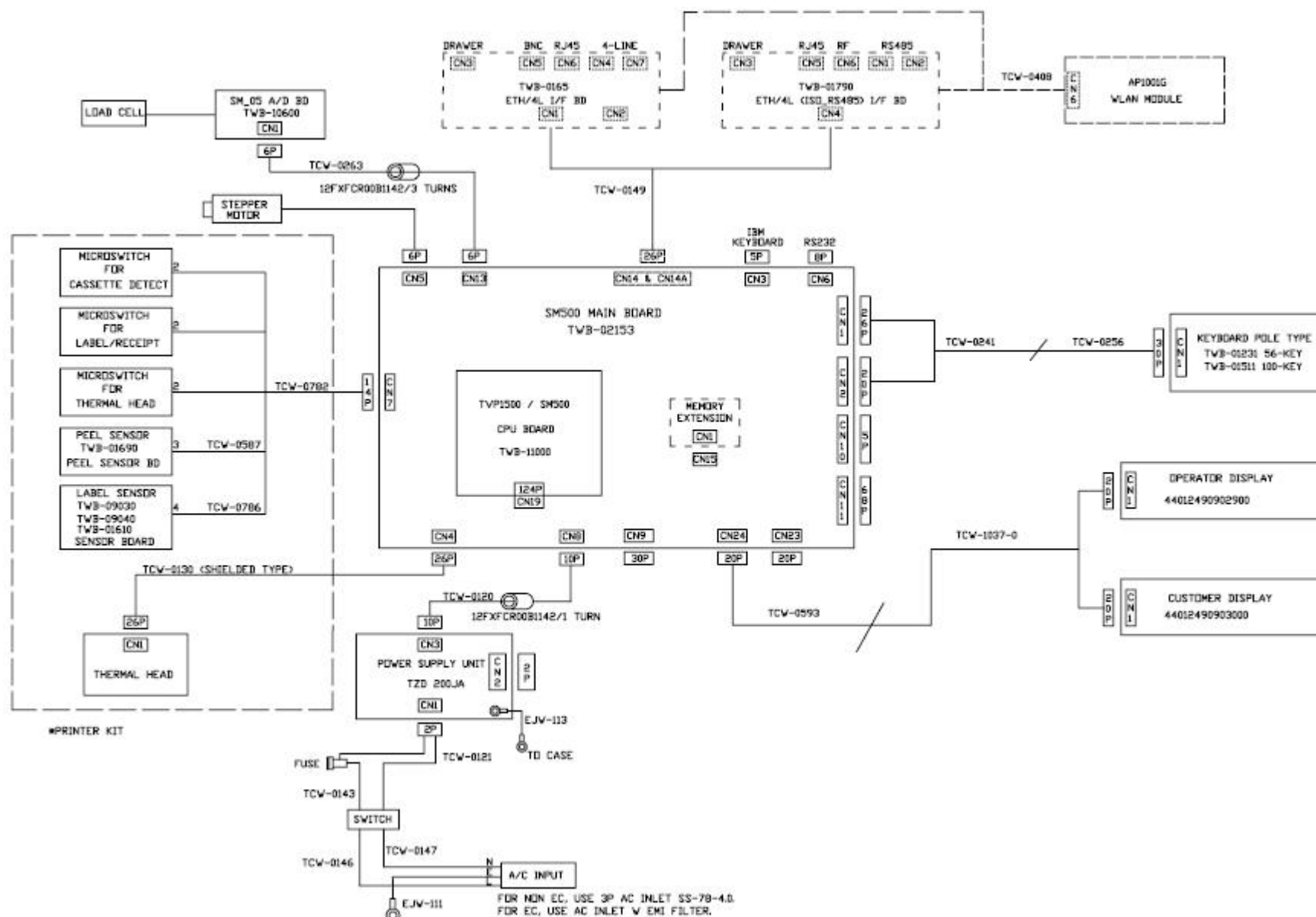
10. APPENDIX

10.1 Block Diagram

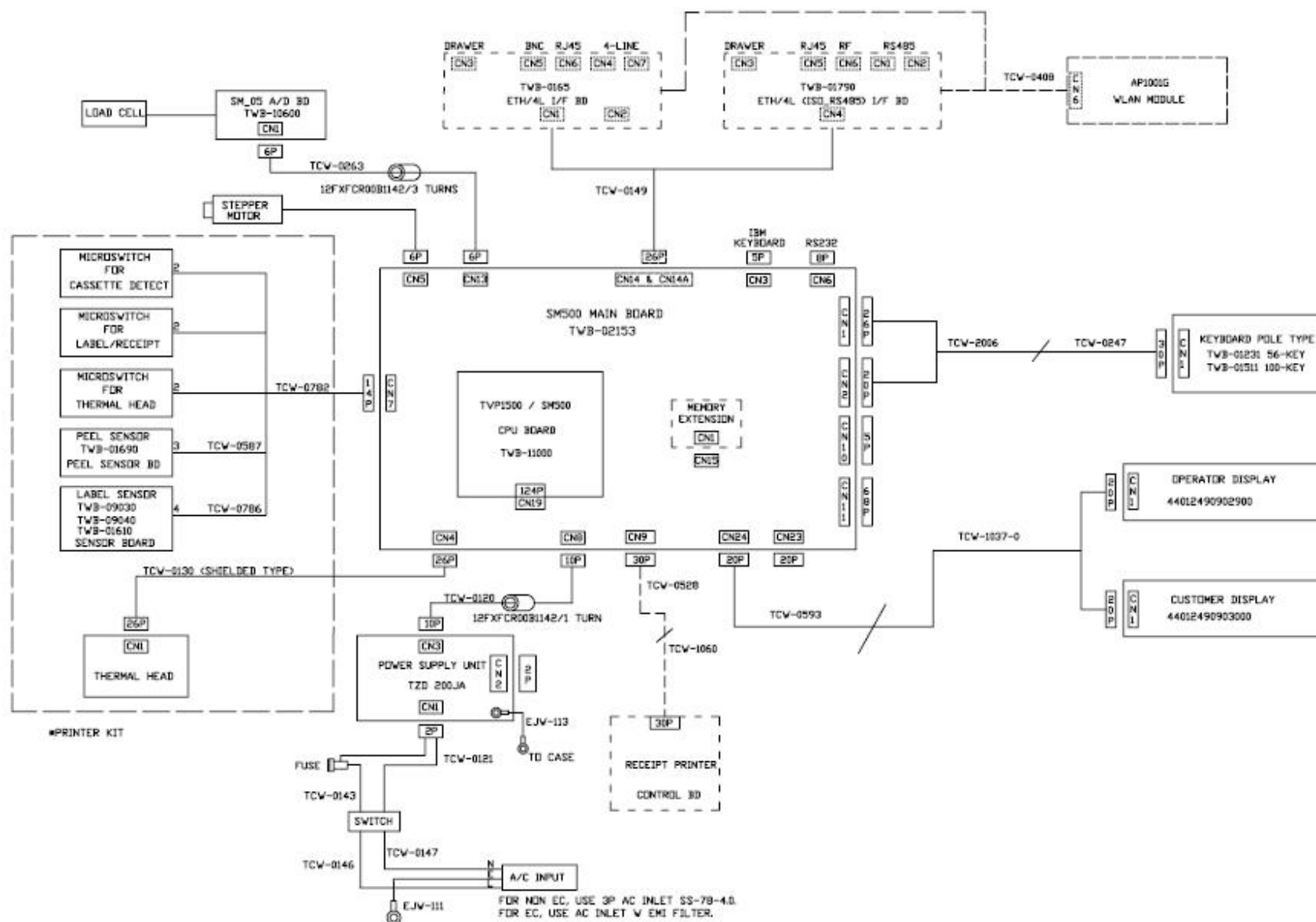
10.1.1 Bench Type



10.1.2 Touch Screen Pole Type



10.1.3 Elevated Type



10.2 Specification List

10.2.1 User Specification [REZERO] + [1][4][1]

SPEC 0: SELECTION OF ITEM BARCODE

0:	F1F2 CCCCC XCD XXXX	(13 DIGIT NON-PLU)
1:	F2 CCCCC XCD XXXX	(13 DIGIT NON-PLU)
2:	F1F2 CCCCC O XXXX	(13 DIGIT NON-PLU)
3:	F1F2 CCCCCC XXXX CD	(13 DIGIT NON-PLU)
4:	F1F2 CCCCC XXXXX CD	(13 DIGIT NON-PLU)
5:	F2 CCCCCC XXXXX CD	(13 DIGIT NON-PLU)
6:	F2 CCCCC XXXXXX CD	(13 DIGIT NON-PLU)
7:	F1F2 CCCCCCCCC CD	(13 DIGIT PLU)
8:	F1F2 CCCC XXXXXX CD	(13 DIGIT NON-PLU)
9:	F1F2 CCCCC CD	(8 DIGIT PLU)
10:	F2 CC XXXX CD	(8 DIGIT NON-PLU)
11:	NON BARCODE	(NON BARCODE)
12:	F1X2 CCCCC XCD XXXX	(13 DIGIT NON-PLU)
13:	F1X2 CCCCCC XXXX CD	(13 DIGIT NON-PLU)
14:	F1F2 CCCC XCD XXXXX	(13 DIGIT NON-PLU)
15:	F2 CCCCC XCD XXXXX	(13 DIGIT NON-PLU)
16:	F1F2 CCC XXXXXXXX CD	(13 DIGIT NON-PLU)
17:	F1F2 CC XXXXXXXX CD	(13 DIGIT NON-PLU)
18:	CCC WWW PP PPP CD	(13 DIGIT NON-PLU)
19:	CCCCCCC XXXXXXXX CD	(Non Barcode)
20:	F1F2 CCCCC PCD XXXX CD	(13 DIGIT NON-PLU)
21:	F1F2 RRRRR XXXXX CD	(13 DIGIT NON-PLU)
22:	F2 CCCCCXXXXX CD	(13 DIGIT NON-PLU)
23:	FFF CCCC PPPPP CD	(13 DIGIT NON-PLU)
24:	FF CCCCC WWWWW CD	(13 DIGIT NON-PLU) (ver.14.61)
25:	F CCCCC WWWWW0 CD	(13 DIGIT NON-PLU) (ver.14.66)
26:	F1F2 CCCCCC WWWWW CD	(13 DIGIT NON-PLU)
27:	CCCCCCC XXXXXXXX WWWWW CD	(Non Barcode)
28:	F1F2 CCC XXXXXXXX CD	(13 DIGIT NON-PLU)
29:	F2 CCCCCC WWW CD	(13 DIGIT NON-PLU)
30:	F1F2 CC NNN CD	(13 DIGIT NON-PLU)
31:	F1F2 C NNNN CD	(13 DIGIT NON-PLU)

SPEC 1: SELECTION OF RIGHT SIDE DATA OF ITEM BARCODE

0:	QUANTITY
1:	PRICE
2:	WEIGHT
3:	USER PROGRAMMABLE
4:	ORIGINAL PRICE
5:	WEIGHT/QUANTITY
6:	UNIT PRICE
7:	UNIT PR. AFT DISC (effective 30/09/02)

SPEC 2: SELECTION OF RIGHT SIDE PRICE DATA OF ITEM BARCODE

0:	PRICE BEFORE TAX
1:	PRICE AFTER TAX

SPEC 3: SETTING FLAG DATA OF F1 & F2 (13 DIGIT NON - PLU BARCODE)
(0 - 99)

SPEC 4: SETTING FLAG DATA OF F1 & F2 (13 DIGIT PLU BARCODE)
(0 - 99)

SPEC 5: SETTING FLAG DATA OF F2 (8 DIGIT NON - PLU BARCODE)
(0 - 9)

SPEC 6: SETTING FLAG DATA OF F1 & F2 (8 DIGIT PLU BARCODE)
(0 - 99)

SPEC 7: SELECTION OF TOTAL BARCODE

0:	F1F2	CCCCC	XCD	XXXX	(13 DIGIT NON-PLU)
1:	F2	CCCCCC	XCD	XXXX	(13 DIGIT NON-PLU)
2:	F1F2	CCCCC	O	XXXX	(13 DIGIT NON-PLU)
3:	F1F2	CCCCCC	XXXX	CD	(13 DIGIT NON-PLU)
4:	F1F2	CCCCC	XXXXX	CD	(13 DIGIT NON-PLU)
5:	F2	CCCCCC	XXXXX	CD	(13 DIGIT NON-PLU)
6:	F2	CCCCC	XXXXXX	CD	(13 DIGIT NON-PLU)
7:	F1F2	CCCCCCCCC	CD		(13 DIGIT PLU)
8:	F1F2	CCCC	XXXXXX	CD	(13 DIGIT NON-PLU)
9:	F1F2	CCCCC	CD		(8 DIGIT PLU)
10:	F2	CC	XXXX	CD	(8 DIGIT NON-PLU)
11:	NON	BARCODE			(NON BARCODE)
12:	F1X2	CCCCC	XCD	XXXX	(13 DIGIT NON-PLU)
13:	F1X2	CCCCCC	XXXX	CD	(13 DIGIT NON-PLU)
14:	F1F2	CCCC	XCD	XXXXX	(13 DIGIT NON-PLU)
15:	F2	CCCCC	XCD	XXXXX	(13 DIGIT NON-PLU)
16:	F1F2	CCC	XXXXXXXX	CD	(13 DIGIT NON-PLU)
17:	F1F2	CC	XXXXXXXXX	CD	(13 DIGIT NON-PLU)
18:	CCC	WWW	PPPP	CD	(13 DIGIT NON-PLU)
19:	NON	BARCODE			
20:	F1F2	CCCCC	PCD	XXXX	(13 DIGIT NON-PLU)
21:	F1F2	RRRRRR	XXXXXCD		
22:	F2	CCCCC	XXXXXXCD		
23:	FFF	CCCC	PPPPPCD		
24:	FF	CCCCC	WWWWW	CD	(13 DIGIT NON-PLU) (ver.14.61)
25:	F	CCCCC	WWWWW0	CD	(13 DIGIT NON-PLU) (ver.14.66)
26:	F1F2	CCCCCC	WWWWW	CD	(13 DIGIT NON-PLU)
27:	CCCCCC	XXXXXX	WWWWW	CD	(Non Barcode)
28:	F1F2	CCC	XXXXXXXX	CD	(13 DIGIT NON-PLU)
29:	F2	CCCCCC	WWW	CD	(13 DIGIT NON-PLU)
30:	F1F2	CC	NNN	CD	(13 DIGIT NON-PLU)
31:	F1F2	C	NNNN	CD	(13 DIGIT NON-PLU)

SPEC 8: SELECTION OF LEFT SIDE DATA OF TOTAL BARCODE

0:	SCALE NUMBER
1:	LAST ACCUMULATED ITEM CODE
2:	RECEIPT NUMBER
3:	CLERK NUMBER
4:	FIXED NUMBER

SPEC 9: FIXED DATA FOR LEFT SIDE DATA OF TOTAL BARCODE

(0 - 9999999999)

SPEC 11: SELECTION OF RIGHT SIDE DATA OF TOTAL BARCODE

0:	QUANTITY
1:	PRICE
2:	WEIGHT

SPEC 12: SELECTION OF TOTAL BARCODE PRINT ON RECEIPT

0:	NO
1:	YES

SPEC 13: SELECTION FOR PRINTING READABLE CHARACTERS OF F1 FOR ITEM AND TOTAL BARCODE

0:	NO PRINT
1:	PRINT

SPEC 14: SELECTION OF PRINTING POSITION FOR ADV MESSAGE

0:	FIRST LINE
1:	BELOW
2:	ABOVE
3:	NOT USED

SPEC 15: SELECTION OF TURN OVER PRINTING FOR ADV MESSAGE

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 16: EXIT FROM 'CHANGE' MODE WITHIN SPECIFIED INTERVAL

- | |
|--------------|
| 0: NO |
| 1: 3 SECOND |
| 2: 6 SECOND |
| 3: 10 SECOND |
| 4: 15 SECOND |

SPEC 17: SELECTION OF ORDERING MONTH, DATE AND YEAR FOR PRINT

- | |
|--------------|
| 0: M / D / Y |
| 1: D / M / Y |
| 2: Y / M / D |
| 3: NOT USED |

SPEC 18: SELECTION OF 1 / 2 LINE (S) COMMODITY NAME ON RECEIPT

- | |
|------------|
| 0: 2 LINES |
| 1: 1 LINES |

SPEC 19: LABEL PRINTING BY CLERK KEY

- | |
|-------------------------------|
| 0: NO PRINT |
| 1: PRINT WITH ACCUMULATION |
| 2: PRINT WITHOUT ACCUMULATION |

SPEC 20: SELECTION OF TOTAL LABEL PRINTING

- | |
|-------------|
| 0: NO PRINT |
| 1: PRINT |

SPEC 21: SELECTION OF PRINTING OPERATOR NAME ON RECEIPT AND LABEL

- | |
|--------------|
| 0: CODE ONLY |
| 1: NAME |

SPEC 22: SELECTION OF RECEIPT PAPER WIDTH

- | |
|----------|
| 0: 60 mm |
| 1: 40 mm |
| 2: 50 mm |

SPEC 23: MANUAL PRICE ENTRY FOR PRINTING OR ACCUMULATION

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 24: SELECTION OF DEFAULT LABEL FORMAT FOR ITEM PRINTING

STANDARD	U1,CA	STANDARD	U1,CA
0: T1	A	12: S	T7
1: T2	B	13: A	T8
2: T3	C	14: B	T9
3: T4	U2	15: C	T10
4: T5	U3	16: F1	F1
5: T6	U4	17: F2	F2
6: T7	U5	18: F3	F3
7: T8	U6	19: F4	F4
8: T9	U7	20: F5	F5
9: T10	U8	21: F6	F6
10: T11	T5	22: F7	F7
11: T12	T6	23: F8	F8

SPEC 25: SELECTION OF DEFAULT LABEL FORMAT FOR TOTAL PRINTING

STANDARD	U1,CA	STANDARD	U1,CA
0: T1	A	12: S	T7
1: T2	B	13: A	T8
2: T3	C	14: B	T9
3: T4	U2	15: C	T10
4: T5	U3	16: F1	F1
5: T6	U4	17: F2	F2
6: T7	U5	18: F3	F3
7: T8	U6	19: F4	F4
8: T9	U7	20: F5	F5
9: T10	U8	21: F6	F6
10: T11	T5	22: F7	F7
11: T12	T6	23: F8	F8

SPEC 26: SELECTION OF SHOP NAME PRINTING ON LABEL

0: NO PRINT
1: PRINT

SPEC 27: FORCED TARE FUNCTION

0: DISABLE
1: ENABLE

SPEC 28: SELECTION OF PEEL SENSOR FUNCTION IN PREPACK MODE

0: DISABLE
1: ENABLE

SPEC 29: SELECTION OF CONTINUOUS PRINT FOR LABEL IN PREPACK

0: INHIBIT
1: ALLOW

SPEC 30: SELECTION OF CDV

0: INHIBIT
1: ALLOW

SPEC 31: SELECTION OF CDV TYPE

0: CDV
1: TEAR-OFF

SPEC 32: SELECTION OF CDV MODULUS

0: MODULUS 10
1: MODULUS 11

SPEC 33: THE SPOT CORRECTION

0: ALLOW
1: INHIBIT

SPEC 34: SELECTION OF SEARCH CORRECTION

0: ALLOW
1: INHIBIT

SPEC 35: SELECTION OF MOVE BACK CORRECTION

0: ALLOW
1: INHIBIT

SPEC 36: SELECTION OF PAST SALES DATA CORRECTION

0: ALLOW
1: INHIBIT

SPEC 37: SELECTION OF LABEL PRINT DENSITY

0: LOW
1: MID
2: H. MID
3: HIGH

SPEC 38: SELECTION OF RECEIPT PRINT DENSITY

0: LOW
1: MID
2: H. MID
3: HIGH

SPEC 39: SELECTION OF PLU CALLING

0: MANUAL
1: AUTO
2: TIME-OUT

SPEC 40: SELECTION OF PLU DIGITS FOR AUTO PLU TIME OUT CALLING

0: 3 DIGITS/0.5 SEC
1: 4 DIGITS/1.0 SEC
2: 5 DIGITS/1.5 SEC
3: 6 DIGITS/2.0 SEC

SPEC 41: U. PRICE OF WEIGH-PLU CAN USE FOR PRICE OF NON-WEIGH PLU AND VICE VERSA

0: ALLOW
1: INHIBIT

SPEC 42: UNIT PRICE OVERRIDE

0: ALLOW
1: INHIBIT

SPEC 43: MAIN USAGE FOR COMMODITY NAME, SHOP NAME AND SPECIAL MESSAGE (LABEL / RECEIPT)

0: RECEIPT
1: LABEL

SPEC 44: TARE OVERRIDE

0: ALLOW
1: INHIBIT

SPEC 45: ITEM PRINTING

0: ALLOW
1: INHIBIT

SPEC 46: DEFAULT DATA OF PRINTING SHOP NAME NUMBER FOR LABEL

(0 - 32)

SPEC 47: DEFAULT DATA OF PRINTING SHOP NAME NUMBER FOR RECEIPT

(0 - 32)

SPEC 48: SETTING OF SCALE NUMBERS

(1 - 999999)

SPEC 49: SELECTION OF CLIENT/SERVER INTERFACE

0: NO INTERFACE
1: ETHERNET - COAXIAL CABLE
2: ETHERNET - TWISTED CABLE
3: NOT USED
4: 4 LINES, RS485

SPEC 50: SELECTION OF SERVER / CLIENT

0: CLIENT
1: SERVER / WORKSTATION
2: BACK-UP SERVER

SPEC 51: SELECTION OF BAUD RATES (SIO)

0: 1200
1: 2400
2: 4800
3: 9600
4: 19200
5: 38400

SPEC 52: SELECTION OF DATA LENGTH (SIO)

0: 7 BIT
1: 8 BIT

SPEC 53: SELECTION OF PARITY (SIO)

0: NONE
1: ODD
2: EVEN

SPEC 54: SELECTION OF STOP BIT (SIO)

0: 1 BIT
1: 2 BIT

SPEC 55: SELECTION OF BAUD RATES FOR MULTI-DROP SIO

0: 1200
1: 2400
2: 4800
3: 9600
4: 19200
5: 38400

SPEC 56: SELECTION OF DATA LENGTH FOR MULTI-DROP SIO

0: 7 BIT
1: 8 BIT

SPEC 57: SELECTION OF PARITY FOR MULTI-DROP SIO

0: NONE
1: ODD
2: EVEN

SPEC 58: SELECTION OF STOP BIT FOR MULTI-DROP SIO

0: 1 BIT
1: 2 BIT

SPEC 59: MULTI-DROP SIO SELECT JOB

0: NO OPERATION
1: FIS3000
2: PICK 'N' PAY (SF)

SPEC 60: SIO SELECT JOB

0: NO OPERATION
1: FIS3000
2: FL-1
3: POINT AND SHOP
4: RS232 BARCODE SCANNING
5: VIDEO CTRL (SM300 ONLY) / RESERVED (SM500/90 ONLY)
6: PICK 'N' PAY (SF)

SPEC 61: *FLOATING CLERK SELECTION

0: INHIBIT
1: ALLOW

SPEC 62: RECEIPT FREE FORMAT (NOT FOR AA)

0: DISABLE
1: ENABLE

SPEC 63: SM90 AND DI-10 RS-232 COMMUNICATION

0: NO
1: YES

SPEC 64: ENABLE PASSWORD MODE

0: ALLOW
1: INHIBIT
2: ALLOW MULTI PASSWORD

SPEC 65: REPORT PRINTING IN DAILY AND TERM TRANSACTION CLEAR

0: INHIBIT
1: ALLOW

SPEC 66: PACK QUANTITY FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 67: ADVERTISEMENT FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 68: FIXED TOTAL PRICE DISCOUNT FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 69: TOTAL PRICE PERCENTAGE DISCOUNT FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 70: FIXED UNIT PRICE FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 71: FIXED UNIT PRICE PERCENTAGE FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 72: PACK DATE FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 73: -PACK DATE FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 74: SELL - BY - DATE FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 75: UNIT SYMBOL FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 76: QUANTITY SET FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 77: PRICE CHANGE FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 78: REFUND ITEM FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 79: SHOP NAME FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 80: LOGO FUNCTION KEY ENABLE

0: ALLOW
1: INHIBIT

SPEC 81: PRINT SELECT FUNCTION KEY ENABLE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 82: PRINT OF PLACE OF PRODUCTION ON LABEL

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 83: SELECTION OF MARKDOWN

- | |
|----------------------------------|
| 0: NO MARKDOWN |
| 1: UNIT PRICE MARKDOWN |
| 2: TOTAL PRICE MARKDOWN |
| 3: UNIT AND TOTAL PRICE MARKDOWN |

SPEC 84: SUB-TOTAL FUNCTION KEY ENABLE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 85: GRAND-TOTAL FUNCTION KEY ENABLE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

**SPEC 86: SELECTION OF LABEL SENSOR GAP VALUE
(0 – FF)****SPEC 87: SELECTION OF LABEL TYPE**

- | |
|-----------|
| 0: GAP |
| 1: NO GAP |

SPEC 88: SELECTION OF SELL BY DATE TITLE PRINTOUT (FOR AA ONLY)

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 89: SELECTION OF ASCII CODE ENTRY IN S MODE (FOR AA ONLY)

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 90: SELECTION OF SUB-TOTAL MARKDOWN

- | |
|----------------|
| 0: NO MARKDOWN |
| 1: MARKDOWN |

SPEC 91: SELECTION OF PRINTER SPEED FOR RECEIPT

- | |
|-----------|
| 0: SLOW |
| 1: NORMAL |
| 2: HIGH |

SPEC 92: SELECTION OF PRINTER SPEED FOR LABEL

- | |
|-----------|
| 0: SLOW |
| 1: NORMAL |
| 2: HIGH |

SPEC 93: SECOND RECEIPT PRINT

- | |
|---------------------|
| 0: NO PRINT |
| 1: CONTINUOUS PRINT |
| 2: 1 SECOND |
| 3: 3 SECONDS |
| 4: USER SELECT |

SPEC 94: POSITION OF CURRENCY SYMBOL

- | |
|-----------------|
| 0: BEFORE PRICE |
| 1: AFTER PRICE |

SPEC 95: SELECTION OF RECEIPT PRINTING WITH DUAL COPY

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 96: SELECTION OF ADVERTISEMENT MESSAGE ON ALL LABELS

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 97: SELECTION OF MANUAL PRINT IN PREPACK MODE FOR WEIGH ITEM

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 98: SELECTION OF QUANTITY AND UNIT PRINTOUT FOR NON-WEIGH ITEM IN MANUAL MODE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 99: SELECTION OF UNIT PRINTOUT FOR NON-WEIGH ITEM IN MANUAL MODE

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 100: SELECTION OF DISCOUNT IN PLU PROGRAMMING

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 101: SELECTION OF ZERO SUPPRESS FOR DATE AND TIME

- | |
|---------------------|
| 0: NO ZERO SUPPRESS |
| 1: ZERO SUPPRESS |

SPEC 102: SELECTION OF DISCOUNT PRESENTATION IN RECEIPT

- | |
|---|
| 0: DISCOUNTED UNIT PRICE AND ORIGINAL PRICE |
| 1: ORIGINAL UNIT PRICE AND PRICE |
| 2: DISCOUNT UNIT PRICE (NO PROFIT) |
| 3: ORIGINAL UNIT PRICE (NO PROFIT) |
| 4: DISC UNIT PRICE (NO PROFIT&NO DISC TEXT) |

SPEC 103: SELECTION OF UNIT PRICE ASSIGNMENT FUNCTION KEY FOR PLU

- | |
|------------|
| 0: ENABLE |
| 1: DISABLE |

SPEC 104: SELECTION OF DISCOUNT PRICE ROUNDING METHOD

- | |
|-------------|
| 0: ROUNDING |
| 1: CUT DOWN |
| 2: CUT UP |

SPEC 105: SELECTION OF FIXED TOTAL PRICE MARKDOWN FUNCTION KEY ENABLE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 106: SELECTION OF TOTAL PRICE PERCENTAGE MARKDOWN FUNCTION KEY ENABLE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 107: SELECTION OF FIXED UNIT PRICE MARKDOWN FUNCTION KEY ENABLE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 108: SELECTION OF FIXED UNIT PRICE PERCENTAGE MARKDOWN FUNCTION KEY ENABLE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 109: SELECTION OF SOURCES OF SELL - BY - DATE

- | |
|--------------------|
| 0: REAL TIME CLOCK |
| 1: PACKED DATE |

SPEC 110: SELECTION OF YEAR TYPE (FOR AA AND TAIWAN)

- | |
|----------------------|
| 0: STANDARD |
| 1: JAPANESE / TAIWAN |

SPEC 111: SELECTION OF PRICE SYMBOL ON RECEIPT (FOR AA ONLY)

0: NO PRINT
1: KANJI YEN
2: YEN

SPEC 112: DEFAULT DATA OF PRINTING SPECIAL MESSAGE NUMBER FOR RECEIPT (0 - 16)**SPEC 113: SELECTION OF LABEL LOGO PRINTING STATUS**

0: NO PRINT
1: LOGO 1
2: LOGO 2
3: LOGO 3
4: LOGO 4

SPEC 114: SELECTION OF RECEIPT LOGO PRINTING STATUS

0: NO PRINT
1: LOGO 1
2: LOGO 2
3: LOGO 1 & LOGO 2
4: LOGO 3
5: LOGO 4
6: LOGO 1, 2, 3 & 4

SPEC 115: SELECTION OF TYPE OF ENTRY FOR USED-BY-DATE AND SELL-BY-DATE

0: BY DAY
1: BY HOUR

SPEC 116: SELECTION OF BARCODE PRINTING IN FIRST LABEL FOR DUAL LABEL PRINTOUT (FOR NICHII ONLY)

0: PRINT
1: NO PRINT

SPEC 117: SELECTION OF ZERO MINUTES PRINTING (FOR NICHII ONLY)

0: NO PRINT
1: PRINT

SPEC 118: SELECTION OF BOTH PRICE BEFORE AND AFTER DISCOUNT (FOR NICHII ONLY)

0: PRICE BEFORE AND AFTER DISCOUNT
1: PRICE BEFORE DISCOUNT ONLY

SPEC 119: SELECTION OF UNIT SYMBOL PRINTOUT IN RECEIPT (FOR AA)

0: DEPEND ON PLU PROGRAMMING
1: JAPANESE PCS
2: NO PRINT

SPEC 120: SELECTION OF PLU NUMBER PRINT

0: NO ZERO SUPPRESS
1: ZERO SUPPRESS

SPEC 121: SELECTION OF THICK JAPANESE CHARACTER PRINTOUT

0: THICK CHARACTER
1: THIN CHARACTER

SPEC 122: SELECTION OF PREPACK MODE AFTER POWER ON

0: MANUAL MODE
1: PREPACK MODE

SPEC 123: SELECTION OF PRINTING THANK YOU MESSAGE ON RECEIPT

0: ENABLE
1: DISABLE

SPEC 124: SELECTION OF PLU UNIT PRICE AFTER DISCOUNT

0: UNIT PRICE AFTER DISCOUNT
1: UNIT PRICE DISCOUNT AMOUNT

SPEC 125: POSITION OF SPECIAL MESSAGE ON RECEIPT

- | |
|----------------------|
| 0: BOTTOM OF RECEIPT |
| 1: TOP OF RECEIPT |

SPEC 126: SELECTION OF FUNCTION KEYS PROTECTION FOR DENMARK SELF-SERVICE

- | |
|-----------------------|
| 0: NO PROTECTION |
| 1: PROTECTION |
| 2: PARTIAL PROTECTION |

SPEC 127: SELECTION OF PRINTING OF CHECKSUM FOR ITEM BARCODE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 128: SETTING OF HOST NUMBERS

(1 – 9999)

SPEC 129: TYPE OF HOST TO BE COMMUNICATED

- | |
|---------------|
| 0: STANDALONE |
| 1: TMR ECR |
| 2: POS ECR |

SPEC 130: SELECTION OF PRINT ITEM ON PREPACKS TOTAL LABEL

- | |
|--|
| 0: BASED ON STATUS ON ITEM LABEL |
| 1: BASED ON STATUS ON MANUAL TOTAL LABEL |

SPEC 131: PRINT PLU SETTING QUANTITY IN MANUAL MODE

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 132: RECEIPT TOTAL REPORT (DM)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 133: CHANGE ALL PLU DEFAULT FORMAT WHEN DEFAULT SPEC CHANGE

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 134: HOST COMMUNICATION

- | |
|-----------------|
| 0: NO OPERATION |
| 1: ENABLE |

SPEC 135: PORT NUMBER

(1 - 255)

SPEC 136: SELECTION OF ONE TOUCHES SELF SERVICE OPERATION

- | |
|--------------|
| 0: ONE TOUCH |
| 1: TWO TOUCH |

SPEC 137: SELECTION OF CENTERING OF INGREDIENT DATA

- | |
|-----------------|
| 0: CENTERING |
| 1: NO CENTERING |

SPEC 138: PERMANENT PRICE OR DISCOUNT PRICE CHANGE VIA FUNCTION KEY

- | |
|---------------------|
| 0: NO UPDATE TO PLU |
| 1: UPDATE TO PLU |

SPEC 139: SELECTION OF NUMBER OF DIGITS FOR TERAOKA CODE

- | |
|-------------|
| 0: 2 DIGITS |
| 1: 3 DIGITS |

SPEC 140: AA MESSAGE SIZE

- | |
|------------|
| 0: 24 × 24 |
| 1: 16 × 16 |

SPEC 141: SELECTION OF YEAR FORMAT

0: YY

1: YYYY

SPEC 142: SELECTION OF DAY DISPLAY FOR SELL-BY-DATE

0: DISABLE

1: ENABLE

SPEC 143: PEEL SENSOR TRIGGER VOLTAGE

0: HIGH

1: LOW

SPEC 144: DISPLAY PREPACKS QUANTITY BALANCE

0: ENABLE

1: DISABLE

SPEC 145: PRINT SELECT FUNCTION ACROSS THE BOARD

0: DISABLE

1: ENABLE

SPEC 146: SELECTION OF LABEL FORMAT 1,2 FUNCTION KEY ENABLE (AR)

0: DISABLE

1: ENABLE

SPEC 147: SELECTION OF PREPACK NON ADD FUNCTION KEY ENABLE (NOT FOR AA)

0: DISABLE

1: ENABLE

SPEC 148: FIS3000 CODE

0: SM80 FIS3D

1: SM25 FIS3D

SPEC 149: SELECTION OF MAIN GROUP FUNCTION KEY ENABLE (NOT FOR AA)

0: DISABLE

1: ENABLE

SPEC 150: PRESET KEY ASSIGNMENT FOR CLIENT

0: LOCAL ASSIGN

1: CENTRAL ASSIGN

SPEC 151: CHANGE SELL BY DATE AND USED BY DATE WHEN PACK DATED IS CHANGED

0: NO

1: YES

SPEC 152: SELECTION HAVE SELL-BY-DATE OR SELL-BY-TIME FOR INDIVIDUAL PLU

0: DISABLE

1: ENABLE

SPEC 153: USER PROGRAMMABLE RIGHT SIDE DATA FOR ITEM BARCODE

0: WITH IDENTIFICATION DIGIT

1: WITHOUT IDENTIFICATION DIGIT

SPEC 154: SELECT KEY SHEET LETTER SIZE (FL)

0: SMALL LETTER

1: CAPITAL LETTER

SPEC 155: SELECT TEST PRINT ON RECEIPT (SD)

0: NO PRINT

1: PRINT

SPEC 156: IMAGE COPY FROM FREE FORMAT

0: DISABLE

1: ENABLE

SPEC 157: TRAINING MODE

0: DISABLE
1: ENABLE

SPEC 158: FSD PRICE AND IMAGES

0: DISABLE
1: ENABLE

SPEC 159: ½ AND ¼ KEY ENABLE

0: DISABLE
1: ENABLE

SPEC 160: TWISTED PAIR CABLE FOR ETHERNET

0: SHIELDED
1: UNSHIELDED

SPEC 161: DISCOUNT LABEL FORMAT (SWEDEN)

0: ENABLE
1: DISABLE

SPEC 162: SELECTION OF ITEM CODE FUNCTION KEY ENABLE

0: ENABLE
1: DISABLE

SPEC 163: SELECTION OF TRANSACTION DATA STORE IN CLIENT MEMORY

0: DISABLE
1: ENABLE

SPEC 164: MAXIMUM LABEL LENGTH

0: 120 MM
1: 240 MM

SPEC 165: UPDATE REPORT

0: YES
1: NO

SPEC 166: AVERAGE PRICE AND WEIGHT LABEL FUNCTION

0: DISABLE
1: ENABLE

SPEC 167: LABEL DATE TITLE PRINT (NOT FOR AA)

0: NO PRINT
1: PRINT

SPEC 168: GB-CODE

0: GB-CODE
1: SHIFT GB-CODE

SPEC 169: PRINT PLU SETTING UNIT IN MANUAL MODE

0: NO
1: YES

SPEC 170: USER SPECIFICATION (REZERO+141) ACCESSIBLE FROM Z MODE ONLY

0: NO
1: YES

SPEC 171: EURO MODE

0: NO EURO
1: EURO

SPEC 172: DUAL DECLARATIONS

0: NO
1: YES

SPEC 173: MASK 7 SEGMENT DISPLAY IN X, S, and Z MODE

0: NO

1: YES

SPEC 174: FIXED CLERK ASSIGN TO PRESET KEYS 8/ 16/ 24/ 32 (BENCH TYPE ONLY)

0: CLERK KEYS

1: FUNCTION KEYS

SPEC 175: 30LB → 15KG CONVERSION (UK)

0: DISABLE

1: ENABLE

SPEC 176: DISCOUNT TIME ON DAILY BASIS

0: NO

1: YES

SPEC 177: WEIGHT CHECK FUNCTION

0: NO

1: YES

SPEC 178: UNIT PRICE OVERRIDE PER PLU

0: NO

1: YES

SPEC 179: BLACK BAR SENSING LABEL

0: NORMAL

1: BLACK BAR SENSING

SPEC 180: SCROLL MESSAGE GROUP

0: DISABLE

1: ENABLE

SPEC 181: CONTINUOUS LABEL

0: DISABLE

1: ENABLE

SPEC 182: CHARACTER SIZE FOR BARCODE DATA

0: LARGE

1: SMALL

SPEC 183: PLU CLEAR AFTER 3 MINUTES TIME OUT

0: NO

1: YES

SPEC 184: DUPLICATE UNIT /TOTAL PRICE ON LABEL

0: NO PRINT

1: PRINT

SPEC 185: WEIGH ↔ NON-WEIGH FUNCTION KEY ENABLES

0: DISABLE

1: ENABLE

SPEC 186: PRINT \$ AND WEIGHT UNIT ON LABEL

0: NO

1: YES

SPEC 187: CLEAR TOTAL DATA BY SERVER

0: BOTH SERVER AND CLIENT

1: SERVER

SPEC 188: SELECTION OF TARE DECIMAL POINT LEFT SHIFT FOR SM25 FIS3D

0: NO

1: YES

SPEC 189: PLU AUTO DELETE

- | |
|--------------|
| 0: NO DELETE |
| 1: 15 DAYS |
| 2: 30 DAYS |
| 3: 90 DAYS |

SPEC 190: SWAP WEIGHT AND UNIT PRICE ON RECEIPT

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 191: DEFAULT ITEM CODE EQUALS TO PLU NUMBER

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 192: NUTRITION TEMPLATE

- | |
|------------------------------|
| 0: STANDARD |
| 1: SIMPLIFIED |
| 2: SIMPLIFIED CONDENSED |
| 3: STANDARD CONDENSED |
| 4: TABULATED |
| 5: TABULATED EXTRA CONDENSED |

SPEC 193: NUTRITION ADJUSTMENT FEED

(0 – 255)

SPEC 194: SERVER IP ADDRESS

(1 – 254)

SPEC 195: WEIGHT PRINT FOR NON-WEIGH ITEM

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 196: SCALE FILE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 197: PRINTING FORMAT OF MONTH

- | |
|-----------------|
| 0: NUMBER |
| 1: 2 ALPHABETIC |
| 2: 3 ALPHABETIC |

SPEC 198: FSD SAVING CALCULATION

- | |
|--------------|
| 0: NET VALUE |
| 1: CENT OFF |

SPEC 199: FIS3000 TIME OUT

- | |
|---------------|
| 0: 2 SECONDS |
| 1: 8 SECONDS |
| 2: 32 SECONDS |

SPEC 200: PLU CALL UP RANGE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 201: SELL BY DATE FOR MANUAL MODE

- | |
|----------------------------|
| 0: PROGRAMMED SELL BY DATE |
| 1: ZERO SELL BY DATE |

SPEC 202: PRINTING OF ITEM LABEL WHEN BARCODE DATA OVERFLOW

- | |
|-------------|
| 0: PRINT |
| 1: NO PRINT |

SPEC 203: PRESET KEYS PAGES

- | |
|--------------------------|
| 0: 1 PAGE |
| 1: 3 PAGES BY TOGGLE KEY |
| 2: 3 PAGES BY SHIFT KEY |

SPEC 204: REFERENCE PLU FUNCTION KEY ENABLE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 205: PRINT FUNCTION KEY ENABLE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 206: PRINT BARCODE WHEN RIGHT SIDE WEIGHT DATA OVERFLOW

- | |
|-------------------------|
| 0: NO PRINT |
| 1: PRINT BARCODE DIGITS |

SPEC 207: SELECTION OF WEIGHT DECIMAL POINT POSITION FOR BARCODE AND LABEL PRINTING

- | |
|---------------------|
| 0: SAME AS SPEC 607 |
| 1: 0.000 |

SPEC 208: TIME OUT FOR NETWORK

- | |
|---------------------------|
| 0: X 1 OF ORIGINAL TIMING |
| 1: X 2 |
| 2: X 4 |
| 3: X 10 |

SPEC 209: FSD CALCULATION

- | |
|------------------------|
| 0: UNIT PRICE DISCOUNT |
| 1: PRICE % OFF |

SPEC 210: PLU REPEAT FUNCTION KEY ENABLE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 211: PICK 'N' PAY PROTOCOL (SOUTH AFRICA)

- | |
|--------|
| 0: OLD |
| 1: NEW |

SPEC 212: DEPARTMENT NUMBER FOR PICK 'N' PAY (SOUTH AFRICA)
(1 - 99)**SPEC 213: FLAG CODE FUNCTION KEY ENABLE**

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 214: DHCP

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 215: SELECTION OF CENTERING OF SPECIAL MESSAGE

- | |
|-----------------|
| 0: CENTERING |
| 1: NO CENTERING |

SPEC 216: JIS-CODE TABLE

- | |
|-----------------|
| 0: NEW JIS-CODE |
| 1: OLD JIS-CODE |

SPEC 217: SELECTION OF DEFAULT LABEL FORMAT 2 FOR ITEM PRINTING

- | |
|-------------|
| 0: NOT USED |
| 0: F1 |
| 1: F2 |
| 2: F3 |
| 3: F4 |
| 4: F5 |
| 5: F6 |
| 6: F7 |
| 7: F8 |

SPEC 218: ZERO UNIT PRICE FOR UNIT PRICE CHANGE FUNCTION KEY

0: DISABLE
1: ENABLE

SPEC 219: NUMERIC KEY ENTRY RESET (AA)

0: 3 SECONDS
1: 5 SECONDS
2: DISABLE

SPEC 220: ITEM BARCODE RIGHT SIDE DATA DEPENDENT ON UNIT

0: DISABLE
1: ENABLE

SPEC 221: RECEIPT WITH TAX INFORMATION FUNCTION KEY ENABLE

0: DISABLE
1: ENABLE

SPEC 222: OPEN CASH DRAWER WITHOUT SALES FUNCTION KEY ENABLE

0: DISABLE
1: ENABLE

SPEC 223: NEGATE UNIT PRICE FUNCTION

0: DISABLE
1: ENABLE

SPEC 224: FIS3000 CABLE

0: 4 WIRE
1: 2 WIRE

SPEC 225: PREPACK GRAND TOTAL FOR INDIVIDUAL PLU

0: YES
1: NO

SPEC 226: REVERSE CALCULATION OF ITF CHECK DIGIT

0: NO
1: YES

SPEC 227: UNIT PRICE OVERRIDE PASSWORD FUNCTION

0: DISABLE
1: ENABLE

SPEC 228: INDIVIDUAL PLU TOTAL TRANSACTION

0: NO
1: YES

SPEC 229: PRESET KEY GROUP

0: DISABLE
1: ENABLE

SPEC 230: AUTO PRINT AFTER PLU CALL

0: NO
1: YES

SPEC 231: ZERO UNIT PRICE FOR PLU & UNIT PRICE OVERRIDE

0: INHIBIT
1: ALLOW

SPEC 232: FEED FOR CONTINUOUS LABEL

0: NO
1: YES

SPEC 233: TIME FORMAT

0: 24 HOUR
1: 12 HOUR (AM / PM)

SPEC 234: SUB-TOTAL AND GRAND TOTAL BARCODE

0: BASED ON ITEM BARCODE

1: BASED ON TOTAL BARCODE

SPEC 235: MASK BARCODE LAST HUMAN READABLE CHECK DIGIT

0: NO

1: YES

SPEC 236: CHARACTER GENERATOR FOR KOREA

0: OLD

1: NEW

SPEC 237: HALF KEY FUNCTION

0: INHIBIT

1: ALLOW

SPEC 238: FIS3000 FREE FORMAT UNIT

0: MM

1: DOTS

2: SM-25 DOTS

SPEC 239: CHEQUE & CREDIT PAYMENT FUNCTION KEY

0: DISABLE

1: ENABLE

SPEC 240: VOUCHER PAYMENT FUNCTION KEY

0: DISABLE

1: ENABLE

SPEC 241: PLU CODE FOR IR POS & TMR

0: 6 DIGITS

1: 7 DIGITS

SPEC 242: DISCOUNT WITHOUT LIMIT FUNCTION KEY

0: DISABLE

1: ENABLE

SPEC 243: CONCATENATE COMMODITY NAME DISPLAY

0: NO

1: YES

SPEC 244: ENABLE PLU PRICE CHANGE FLAG

0: NO

1: YES

SPEC 245: PRINT SELL BY DATE OR USED BY DATE WHEN DATE = PACKED DATE

0: YES

1: NO

SPEC 246: PRINT 1ST AND CHECK DIGITS OUTSIDE BARCODE

0: NO

1: YES

SPEC 247: PRINT PACKED DATE

0: MANUAL AND PREPACK MODE

1: MANUAL MODE

2: PREPACK MODE

3: NO PRINT

SPEC 248: PRINT SELL BY DATE

0: MANUAL AND PREPACK MODE

1: MANUAL MODE

2: PREPACK MODE

3: NO PRINT

SPEC 249: PRINT USED BY DATE

- | |
|----------------------------|
| 0: MANUAL AND PREPACK MODE |
| 1: MANUAL MODE |
| 2: PREPACK MODE |
| 3: NO PRINT |

SPEC 250: CENTERING SHOP NAME ON LABEL

- | |
|-----------------|
| 0: NO CENTERING |
| 1: CENTERING |

SPEC 251: SHOP NAME ON RECEIPT

- | |
|-----------|
| 0: TOP |
| 1: BOTTOM |

SPEC 252: AUTO RECONNECT WHEN SERVER DOWN

- | |
|-------------------------------|
| 0: NO AUTO RECONNECT |
| 1: RECONNECT EVERY 2 MIN |
| 2: RECONNECT EVERY 3 MIN |
| 3: RECONNECT EVERY 15 SECONDS |

SPEC 253: CLIENT AUTO PLU UPDATE

- | |
|---------------------------------------|
| 0: UPDATE /DELETE EXISTING PLUs |
| 1: UPDATE /DELETE ALL SERVER PLUs |
| 2: UPDATE EXISTING PLUs (NO DELETE) |
| 3: UPDATE ALL SERVER PLUs (NO DELETE) |
| 4: DISABLE |

SPEC 254: AUTO UPDATE OF CLIENT OFF-LINE REPORT

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 255: ETHERNET COMMUNICATION RETRY

- | |
|------------|
| 0: 2 TIMES |
| 1: 5 TIMES |

SPEC 256: DISPLAY PRICE WITH TAX AFTER CLERK KEY PRESS (AA)

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 257: CHANGE PLACE NAME TO PLU VIA FUNCTION KEY (AA)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 258: BEEF LABELLING

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 259: AUTO PRINT SUB TOTAL LABEL IN PREPACKS

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 260: BEEF LABELLING: COUNTRY

- | |
|-----------------------|
| 0: CODE |
| 1: NAME |
| 2: CODE (CONCATENATE) |
| 3: NAME (CONCATENATE) |

SPEC 261: RESERVED

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 262: CASH DRAWER DETECTION (IRELAND _ SM 500)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 263: FSD NET VALUE MINIMUM

- | |
|--------|
| 0: OFF |
| 1: ON |

SPEC 264: PRINT INGREDIENT DATA ON THE NEXT LABEL

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 265: CLIENT USING LOCAL FREE FORMAT LABEL

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 266 : FSD WEIGHT

- | |
|---------------------------------|
| 0: BACK COMPUTED (SINGLE RANGE) |
| 1: BACK COMPUTED (DUAL RANGE) |
| 2: EXACT WEIGHT |

SPEC 267: CPDL LANGUAGE SELECTION

- | |
|-----------------------------|
| 0: 1 ST LANGUAGE |
| 1: 2 ND LANGUAGE |

SPEC 268: DISPLAY SPECIAL SCALE MSG FOR DISCOUNTED ITEM (SM90)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 269: AUTO CLERK ACCUMULATION

- | |
|-----------------|
| 0: NO |
| 1: 9995 (A KEY) |
| 2: 9996 (B KEY) |
| 3: 9997 (C KEY) |
| 4: 9998 (D KEY) |

SPEC 270 : INDIVIDUAL REPORT PRINT AND CLEAR IN Z MODE

- | |
|-----------------|
| 0: DISABLE |
| 1: MANUAL CLEAR |
| 3: AUTO CLEAR |

SPEC 271: STORE TOTAL REPORT CLEAR (WHEN SPEC270 ENABLE)

- | |
|----------------------------------|
| 0: CLEAR STORE TOTAL REPORT ONLY |
| 1: CLEAR ALL REPORT |

SPEC 272: BEEF REFERENCE NO

- | |
|---------|
| 0: CODE |
| 1: DATE |

SPEC 273: ITEM CODE: PLU NUMBER

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 274: BENCH KEY PAD (SM300 ONLY)

- | |
|--------|
| 0: NEW |
| 1: OLD |

SPEC 275: TAIWAN RECEIPT PRINTER

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 276: FLOATING SERVER

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 277: REAL TIME BUFFER

- | |
|------------------------|
| 0: NO REAL TIME BUFFER |
| 1: 2 DAYS BUFFER |
| 2: 3 DAYS BUFFER |
| 3: 4 DAYS BUFFER |

4: 5 DAYS BUFFER
5: 6 DAYS BUFFER
6: 7 DAYS BUFFER
UNLIMITED BUFFER

SPEC 278: TRACEABILITY REPORT

0: DISABLE
4: BY REFERENCE NUMBER
5: BY PLU NUMBER
6: BY DATE & REF NUMBER
7: BY DATE & PLU NUMBER

SPEC 279: U1 SELF SERVICE

0: DISABLE
1: ENABLE

SPEC 280: REAL TIME CUSTOMER NUMBER

0: NO
1: YES

SPEC 281: REAL TIME BUFFER RECEIPT

0: DETAIL
1: TOTAL ONLY

SPEC 282: BARCODE FUNCTION

0: WITHOUT<CR>
1: WITH <CR>

SPEC 283: NOT USED**SPEC 284: OPEN CASH DRAWER ON CREDIT PAYMENT**

0: ALLOW
1: INHIBIT

SPEC 285: AUSTRALIA ECR FUNCTION

0: NO
1: YES

SPEC 286: ENFORCE AMOUNT TENDERED

0: NO
1: YES

SPEC 287: ENFORCE CHANGE KEY

0: NO
1: YES

SPEC 288: PLANNED PRICE PRINTED IN REPORT

0: ENABLE
1: DISABLE

SPEC 289: REPEAT PLU CALL

0: NO
1: YES

SPEC 290: PAYMENT KEY (EURO COUNTRIES ONLY)

0: DISABLE
1: ENABLE

SPEC 291: GAP VALUE IN FEED OPERATION

0: READJUST
1: NO CHANGE

SPEC 292: SM200 POWER SAVE

0: BACK LIGHT OFF
1: POWER OFF

SPEC 293: SM200 POWER SAVE TIMEOUT

- | |
|---------------|
| 0: 3 MINUTES |
| 1: 5 MINUTES |
| 2: 10 MINUTES |
| 3: 2 MINUTES |

SPEC 294: SM200 BATTERY OPTION

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 295: SM300 SCROLLING MSG UPDATE RATE

- | |
|-------------|
| 0: 6 LINE |
| 1: 12 LINES |

SPEC 296: INGREDIENT FILE-SIZE EXPANSION

- | |
|----------------|
| 0: MAX 99 REC |
| 1: MAX 255 REC |

SPEC 297: PRINT PLU INGREDIENT IN RCT

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 298: TRACEABILITY UPDATE FUNCTION

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 299: KEYBOARD SELECTION

- | |
|-----------------------------|
| 0: NORMAL KEYBOARD |
| 1: 100 PRESET KEYS KEYBOARD |
| 2: 80 PRESET KEYS KEYBOARD |

SPEC 300: SM500 SELF-SERVICE

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 301: PRINT RECEIPT AFTER ACCUMULATION

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 302 : FIXED PORT NUMBER FOR ETHERNET

(1 - 255)

SPEC 303: DHCP IP ADDRESS LEASE TIME

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 305: CHAR SPREADING SPEED UP (S3, S4, M3 & M4) (FOR U1 ONLY)

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 306: UNIT PRINT ON RECEIPT

- | |
|----------|
| 0: PCS |
| 1: ITEMS |

SPEC 307: CODE PAGE (IR ONLY)

- | |
|---------|
| 0: DOS |
| 1: ANSI |

SPEC 308: SM500 2ND RECEIPT PRINTER

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 309: PRAXIS FUNCTION (IKB ONLY)

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 310: RSS14 BARCODE (AI 01 ONLY)

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 311: OPERATOR LOGGING FUNCTION

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 312: CLERK ID/ PASSWORD (KE ONLY) / CHANGED PASSWORD (STANDARD)

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 313: UPDATE LOG FILE

- | |
|----------------------|
| 0: CA+NO UPDATE FILE |
| 1: CA+UPDATE FILE |
| 2: KE+UPDATE FILE |
| 3: KE+NO UPDATE FILE |

SPEC 314: TRAINING MODE

- | |
|--------------------------|
| 0: DISABLE |
| 1: ENABLE |
| 2: ENABLE (CLERK REPORT) |

SPEC 315: PRINT PLU TRACEABILITY IN RCT

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 316: INCLUDE PPK TTL IN MANUAL TTL RPT

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 317: WIRELESS COMMUNICATION

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 318: WIRELESS FTP PORT NO.

(1 - 9999)

SPEC 319: DELETE TRACEABILITY REOCD

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 320: PLU LINK TO TEXT FIELD

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 321: JULIAN DATE FOR PACKED & SELL DATE

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 322: PRICE PRINTING SIZE (LARGE FONT) (VER 14.63 ONWARDS)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 323: AUTO PLU BROADCASTING (VER 14.85 ONWARDS)

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 324: DECIMAL POINT FOR UNIT PRICE AND TOTAL PRICE FIELDS

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 325: PEEL SENSOR VALUE

- | |
|--------------|
| 0: READJUST |
| 1: NO CHANGE |

SPEC 326: ON/OFF KEY

0: DISABLE
1: ENABLE

SPEC 327: SM300 PRINT CONTROL

0: DISABLE
1: ENABLE

SPEC 328: TU 9 DIG TOTAL PRICE

0: DISABLE
1: ENABLE

SPEC 329: PLU TARE CALLS UP

0: ALLOW
1: INHIBIT

SPEC 330: INDIVIDUAL SCALE STORE TOTAL REPORT

0: NO
1: YES

SPEC 331: DEFAULT ITF FOR BARCODE

0: DISABLE
1: ENABLE

SPEC 332: ITEM TEXT (5-16) PRINT ON TOTAL LABEL

0: DISABLE
1: ENABLE

SPEC 333: IMAGE AT TOP RECEIPT

(0 - 99)

SPEC 334: IMAGE AT BOTTOM RECEIPT

(0 - 99)

SPEC 335: TRACEABILITY EATS BY DATE

0: DISABLE
1: ENABLE

SPEC 336: TRACEABILITY MAX WEIGHT

0: DISABLE
1: ENABLE

SPEC 336: TRACEABILITY NO ASSIGNMENT PER PLU

0: NO
1: YES

SPEC 337: TRACEABILITY DEFAULT LABEL FORMAT

1: F1
2: F2
3: F3
4: F4
5: F5
6: F6
7: F7
8: F8

SPEC 337: TRACEABILITY NO AUTO UPDATE

0: NO
1: YES

SPEC 338: TRACEABILITY BARCODE

0: EAN13
1: EAN128

SPEC 339: TRACEABILITY NO C/D CHECK

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 340: ENFORCE SCAN

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 341: TVP2000

- | |
|--------------------------|
| 0: NOT SEND T10 |
| 1: SEND T10 LABEL FORMAT |

SPEC 342: LCD 1 LINE SCROLL

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 343: CLEAR KEY IN PREPACK

- | |
|------------|
| 0: ENABLE |
| 1: DISABLE |

SPEC 344: PRINT PACK DATE

- | |
|--------|
| 0: YES |
| 1: NO |

SPEC 345: UPDATE SPEC FOR SERVER/CLIENT SYSTEM

- | |
|------------|
| 0: ENABLE |
| 1: DISABLE |

SPEC 346: UPDATE LABEL TURNOVER IN RT BUFFER

- | |
|---------------------------------|
| 0: NO |
| 1: ONLY IN REGISTRATION MODE |
| 2: ONLY IN PRE-PACK MODE |
| 3: REGISTRATION & PRE-PACK MODE |

SPEC 347: INTERNET BROADCAST

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 348: TAIWAN POP LABEL

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 349: DIRECT ACCESS TO CLERK MODE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 350: ADDITIONAL ROUNDING IN RECEIPT

- | |
|-------------|
| 0: PRINT |
| 1: NO PRINT |

SPEC 351: GRATUITOUS ARP

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 352: MAGALI TRACEABILITY

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 353: UP & WT CHECK BEFORE LBL PRT

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 354: ROMANIAN CURRENCY (RM ONLY)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 355: CALL PLU FROM PC

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 356: EXPAND RECORD # FOR IMAGE

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 357: MULTI BARCODE FOR ITEM & TOTAL LBL

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 358: AUTO PRINT PER PLU

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 359: TOTAL PRICE BASED ON BARCODE (SF)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 360: GENERIC BARCODE

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 361: TEXT COPY FROM FREE FORMAT

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 362: PRICE CALCULATION BASED ON GROSS WT

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 363: BARCODE READABLE CHARACTER

- | |
|-------------|
| 0: PRINT |
| 1: NO PRINT |

10.2.2 Weigh & Measure Specification [REZERO] + [1][4][2]**SPEC 600: SELECTION OF PRICE BASE FOR PRICE CALCULATION FOR WEIGHED ITEMS**

- | |
|--------------|
| 0: 100g BASE |
| 1: 1kg BASE |

SPEC 601: SELECTION OF AUTO - ZERO FUNCTION

- | |
|-------------------|
| 0: NO AUTO - ZERO |
| 1: AUTO - ZERO |

SPEC 602: SELECTION OF DISPLAY TYPE

- | |
|-----------------------|
| 0: SINGLE DISPLAY ROW |
| 1: THREE DISPLAY |

SPEC 603: SELECTION OF TAX

- | |
|-----------|
| 0: NO TAX |
| 1: TAX |

SPEC 604: SELECTION OF MINUS WEIGHT MASKING

- | |
|----------------------------|
| 0: " - " SIGN WEIGHT |
| 1: MINUS GROSS WEIGHT MASK |
| 2: MINUS NET WEIGHT MASK |
| 3: NOT USED |

SPEC 605: SELECTION OF MANUAL SCALE START

0: AUTO START

1: MANUAL START

SPEC 606: SELECTION OF ZERO LAMP LIGHTING POSITION0: LIGHT ON AT GROSS ZERO $\pm 1/4$ DIGIT1: LIGHT ON AT NET ZERO $\pm 1/4$ DIGIT**SPEC 607: SELECTION OF DECIMAL POINT POSITION FOR WEIGHT**

0: NONE

1: 0.0

2: 0.00

3: 0.000

SPEC 608: SELECTION OF ZERO POINT SETTING RANGES WHEN A/C DISPLAY SWITCH ON0: $\pm 10\%$ OF CAPACITY (CALIBRATED ZERO POINT $\pm 6000\text{IR}$)1: $\pm 5\%$ OF CAPACITY (CALIBRATED ZERO POINT $\pm 3000\text{IR}$)2: $\pm 2\%$ OF CAPACITY (CALIBRATED ZERO POINT $\pm 1200\text{IR}$)3: $\pm 0.6\%$ OF CAPACITY (CALIBRATED ZERO POINT $\pm 360\text{IR}$)**SPEC 609: SELECTION OF DECIMAL POINT POSITION FOR UNIT PRICE & TOTAL PRICE**

0: NONE

1: 0.0

2: 0.00

3: 0.000

SPEC 610: SELECTION OF UNIT PRICE DECIMAL POINT RIGHT SHIFT

0: NO RIGHT SHIFT

1: RIGHT SHIFT

SPEC 611: SELECTION OF UNIT PRICE DECIMAL POINT LEFT SHIFT

0: NO LEFT SHIFT

1: LEFT SHIFT

SPEC 612: SELECTION OF SWITCHING OF PRICE BASE

0: INHIBIT

1: 100g / 1 KG

2: 500g / 1 KG

SPEC 613: SELECTION OF EXIT FROM ACCUMULATION MODE AFTER TIME OUT

0: INHIBIT

1: 15 SECS

2: 5 SECS

3: 10 SECS

SPEC 614: SELECTION OF ZERO SETTING RANGES WHEN WEIGHT RESET SWITCH IS ON OR ZERO TRACKING0: $\pm 10\%$ OF CAPACITY (POWER ON START POINT $\pm 6000\text{IR}$)1: $\pm 5\%$ OF CAPACITY (POWER ON START POINT $\pm 3000\text{IR}$)2: $\pm 2\%$ OF CAPACITY (POWER ON START POINT $\pm 1200\text{IR}$)3: $\pm 0.6\%$ OF CAPACITY (POWER ON START POINT $\pm 360\text{IR}$)**SPEC 615: SELECTION OF CAPACITY**

0: 3Kg

1: 6Kg

2: 15Kg

3: 30Kg

4: 30LB

SPEC 616: SELECTION OF WEIGHT DUAL / SINGLE RANGE

0: SINGLE

1: DUAL

2: 1 / 7500 OR 1 / 6000

SPEC 617: NEW AD

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 618: SELECTION OF NET/GROSS DUAL RANGE

- | |
|----------------------------|
| 0: GROSS DUAL RANGE METHOD |
| 1: NET DUAL RANGE METHOD |

SPEC 619: SELECTION OF PLU WEIGHT ITEM COMMODITY NAME DISPLAY (BENCH TYPE)

- | |
|-----------------|
| 0: FULL DISPLAY |
| 1: HALF DISPLAY |
| 2: NO DISPLAY |

SPEC 620: SELECTION OF TARE ACCUMULATION

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 621: SELECTION OF TARE SUBTRACTION

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 622: SELECTION OF MANUAL CLEAR OF TARE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 623: SELECTION OF WEIGHT RESET OPERATION DURING TARE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 624: ZERO TRACKING DURING TARE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 625: SELECTION OF ACCUMULATION WHEN TARE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 626: SELECTION OF DIGITAL TARE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 627: SELECTION OF DECIMAL POINT FIGURE

- | |
|-----------|
| 0: PERIOD |
| 1: COMMA |

SPEC 628: SELECTION OF PRICE ROUNDING METHODS FOR THE DECIMAL DIGITS FOR WEIGHED ITEMS

- | |
|---------------|
| 0: ROUNDING |
| 1: TRUNCATING |
| 2: CUT UP |

SPEC 629: SELECTION OF ADDITIONAL PRICE ROUNDING METHOD FOR ITEM

- | |
|---------------------------|
| 0: NO ADDITIONAL ROUNDING |
| 1: 1/4 ROUNDING |
| 2: SPECIAL ROUNDING |
| 3: ROUNDING FOR 1ST DIGIT |
| 4: CUT OFF |
| 5: CUT UP |

SPEC 630: SELECTION OF AUTO CLEAR OF UNIT PRICE

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 631: SELECTION OF MAXIMUM CAPACITY

- | |
|-------------------|
| 0: CAPACITY + 1 D |
| 1: CAPACITY + 9 D |

SPEC 632: SELECTION OF TARE VALUE EXCHANGE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 633: SELECTION OF AUTO CLEAR OF TARE

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 634: SELECTION OF AUTO TARE CLEARS WHEN REZERO

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 635: SELECTION OF TRIGGER POINT OF TARE / UNIT PRICE AUTO CLEAR

- | |
|--|
| 0: OVER NET 5d & OVER GROSS 21d & WEIGHT STABILITY |
| 1: > = NET 1d AND WEIGHT STABILITY |
| 2: > = NET 1d AND PRICE > 0 AND WEIGHT STABILITY |

SPEC 636: SELECTION OF AUTOMATIC ZERO RESET

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 637: SELECTION OF NEGATIVE WEIGHT TARE CLEAR

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 638: SELECTION OF TARE RANGE

- | |
|-------------------------------|
| 0: LESS THAN 50 % OF CAPACITY |
| 1: LESS THAN 5 % OF CAPACITY |
| 3: MAX 200G |
| 2: NOT USED |

SPEC 639: SELECTION OF EXIT FROM ACCUMULATION MODE WHEN WEIGHT CHANGE

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 640: SELECTION OF PRICE ACCUMULATION WITH WEIGHT CHANGE > $\pm 10d$

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 641: ACCUMULATION AVAILABLE ONLY AFTER SCALE SHOWS WEIGHT = '0'

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 642: SELECTION OF TARE DISPLAY FOR ONE-TOUCH-TARE

- | |
|------------|
| 0: ALLOW |
| 1: INHIBIT |

SPEC 643: SELECTION OF WEIGHT RANGE OF NON - WEIGH ITEMS

- | |
|-----------------|
| 0: ONLY NET 0d |
| 1: UNDER NET 0d |
| 2: UNDER NET 4d |
| 3: GROSS < 1d |
| 4: ALWAYS |

SPEC 644: SELECTION OF WEIGHT STABILITY CONDITION

- | |
|--------------|
| 0: LOOSE |
| 1: NORMAL |
| 2: TIGHT |
| 3: STRINGENT |

SPEC 645: SELECTION OF WEIGHT RANGE FOR REGISTRATION MODE PRINTING

- | |
|--|
| 0: OVER NET 5d & OVER GROSS 21d & WEIGHT STABILITY |
| 1: OVER NET 1d AND WEIGHT STABILITY |
| 2: OVER NET 19d AND WEIGHT STABILITY |
| 3: OVER NET 20d AND WEIGHT STABILITY |

SPEC 646: SELECTION OF WEIGHT RANGE FOR PREPACK

0: OVER NET 5d & OVER GROSS 21d & WEIGHT STABILITY
1: OVER NET 1d AND WEIGHT STABILITY
2: OVER NET 19d AND WEIGHT STABILITY
3: OVER NET 20d AND WEIGHT STABILITY

SPEC 647: SELECTION OF PLU TARE

0: ALLOW
1: INHIBIT

SPEC 648: SELECTION OF ITEM PRINT WHEN TARE

0: ALLOW
1: INHIBIT

SPEC 649: SELECTION OF TAX ROUNDING METHOD

0: ROUNDING
1: TRUNCATION

SPEC 650: SELECTION OF CHECKING SPAN SWITCH FOR INTERNAL COUNT

0: NO CHECK
1: CHECK

SPEC 651: SELECTION OF CERTAIN FUNCTION KEY ORDER

0: FUNCTION KEY PRECEDE NUMERIC KEY
1: NUMERIC KEY PRECEDE FUNCTION KEY

SPEC 652: SELECTION OF ANGLE ROTATION FOR CERTAIN ITEMS PRINTING

0: ANTI-CLOCKWISE
1: CLOCKWISE

SPEC 653: SELECTION OF TOTAL DISCOUNT

0: ALLOW
1: INHIBIT

SPEC 654: SELECTION OF PACKED DATE FUNCTIONS IN MANUAL MODE

0: INHIBIT
1: ALLOW

SPEC 655: SELECTION OF PREPACK MODE

0: ALLOW
1: INHIBIT

SPEC 656: SELECTION OF SCALE TYPE

0: POLE TYPE
1: BENCH TYPE

SPEC 657: MAINTENANCE MODE

0: ENABLE
1: DISABLE

SPEC 658: SELECTION OF EXTRA LABEL FOR PREPACK PRINTING

0: INHIBIT
1: ALLOW

SPEC 659: SELECTION OF ITEM PRICE PRINTING

0: ITEM PRICE BEFORE TAX
1: ITEM PRICE AFTER TAX

SPEC 660: SELECTION OF BARCODE CHECKING LINE

0: PRINTED
1: NOT PRINTED

SPEC 661: SELECTION OF ADDITIONAL PRICE ROUNDING METHOD FOR TOTAL

0: NO ADDITIONAL ROUNDING
1: 1 / 4 ROUNDING
2: SPECIAL ROUNDING
3: ROUNDING FOR 1ST DIGIT
4: CUT OFF
5: CUT UP
6: Y5 CUT OFF AND Y10 CUT OFF
7: DENMARK ROUNDING

SPEC 662: SELECTION OF UNIT PRICE RE-CALCULATION

0: NO UNIT RE-CALCULATION
1: UNIT RE-CALCULATION

SPEC 663: SELECTION OF NORDIC COUNTRY

0: INHIBIT
1: ALLOW

SPEC 664: SELECTION OF DENMARK SELF SERVICE TYPE

0: INHIBIT
1: ALLOW

SPEC 665: SWAP OF UNIT PRICE AND PRICE DISPLAY IN REGISTRATION MODE

0: NO SWAP
1: SWAP

SPEC 666: MULTIPLICATION OPERATION IN PREPACKS MODE

0: INHIBIT
1: ALLOW

SPEC 667: SM-90 DOT MATRIX DISPLAY SCANNING RATE

0: NORMAL
1: SLOW
2: HIGH SPEED
3: VERY HIGH SPEED

SPEC 668: DISPLAY INTERVAL

0: FAST/DISABLE
1: NORMAL

SPEC 668: 16x16 COM NAME

0: 1.0 SEC DISPLAY
1: 1.5 SEC DISPLAY
2: 2.0 SEC DISPLAY
3: 0.5 SEC DISPLAY

SPEC 669: MASK WEIGHT DISPLAY

0: NO
1: YES

SPEC 670: SCROLL MESSAGE DISPLAY

0: FULL LENGTH
1: HALF LENGTH

SPEC 671: DISPLAY CPU SELECTION

0: DISPLAY CPU BELOW VER 0.16
1: DISPLAY CPU VER 0.16 AND ABOVE

SPEC 672: KEYBOARD SELECTION

0: NORMAL KEYBOARD
1: 100 PRESET KEYS KEYBOARD
2: 80 PRESET KEYS KEYBOARD

SPEC 673: HANGING SCALE

0: NO
1: YES

SPEC 674: SELECTION OF MASKING LAST DIGIT OVER 15LB

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 675: AUTO ZERO ADJUSTMENT RANGE

- | |
|-------------------|
| 0: $\pm 5d$ |
| 1: 2% OF CAPACITY |

SPEC 676: SELECTION OF RIGHT SIDE BARCODE DATA RIGHT SHIFT FOR ITEM AND TOTAL BARCODE

- | |
|-----------------------|
| 0: NO RIGHT SHIFT |
| 1: RIGHT SHIFT |
| 2: RIGHT SHIFT TWICE |
| 3: LEFT SHIFT TWICE |
| 4: LEFT SHIFT 3 TIMES |
| 5: LEFT SHIFT |

SPEC 677: MANUAL WEIGHT FUNCTION KEY

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 678: PRINTING OF ITEM LABEL AFTER WEIGHT CHANGE

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 679: CATTY AND TAEI (TAIWAN)

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 680: TARE CLEAR WHEN EXIT FROM Z, PASSWORD MODE AND CHANGING OF SPECIFICATIONS (REZERO+141 & REZERO+142)

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 681: EURO SECOND PRICE ROUNDING METHOD

- | |
|---------------|
| 0: ROUNDING |
| 1: TRUNCATING |
| 2: CUT UP |

SPEC 682: ADDITIONAL EURO SECOND PRICE ROUNDING METHOD

- | |
|-------------------------------|
| 0: NO ADDITIONAL ROUNDING |
| 1: 1/4 ROUNDING |
| 2: SPECIAL ROUNDING |
| 3: ROUNDING FOR 1ST DIGIT |
| 4: CUT OFF |
| 5: CUT UP |
| 6: Y5 CUT OFF AND Y10 CUT OFF |

SPEC 683: FOREIGN CHARACTER FOR STANDARD COUNTRIES

- | |
|------------|
| 0: NO |
| 1: GB CODE |

SPEC 684: CALIBRATION AT 1/5 OF THE CAPACITY

- | |
|------------|
| 0: DISABLE |
| 1: ENABLE |

SPEC 685: AUTO SELECTION BETWEEN TWO LABEL FORMATS

- | |
|------------|
| 0: INHIBIT |
| 1: ALLOW |

SPEC 686: ROUNDING FOR WEIGHT

- | |
|--------|
| 0: NO |
| 1: YES |

SPEC 687: PROPORTIONAL TARE

0: NO
1: YES

SPEC 688: SM500 SELF-SERVICE

0: NO
1: YES

SPEC 689: CONSECUTIVE COMMODITY NAME DISPLAY INTERVAL

0: 1 SEC
1: 2 SEC
2: 4 SEC
3: 6 SEC

SPEC 690: TEST PROGRAM

0: DISABLE
1: ENABLE

SPEC 691: ONE TOUCH TARE

0: ENABLE
1: DISABLE

SPEC 692: SCROLLING MSG (SM300 ONLY)

0: NO
1: YES

SPEC 693: FLEXI SELF SERVICE KEY GROUPING

0: NO
1: YES

SPEC 694: WEIGHT HOLD FUNCTION (SM300)

0: DISABLE
1: ENABLE

SPEC 695: CLERK PASSWORD SETTING (CA ONLY)

0: DISABLE
1: ENABLE

SPEC 696: QUANTITY SYMBOL RECALCULATION

0: NO
1: YES

SPEC 697: RESERVE

0: NO
1: YES

SPEC 698: DEC PLU TARE

0: NO
1: YES

10.2.3 Weigh & Measure Specification [REZERO] + [1][4][1] (For SM90TS, SM500TS and SM500MK4TS)**SPEC 195: NUMBER OF CHARACTER PAGES**

0:	3 PAGES
1:	4 PAGES
2:	5 PAGES
3:	6 PAGES

SPEC 258: SLT PRESET NAME PROGRAMMING

0:	PLU PROGRAMMING
1:	KEY ASSIGNMENT

SPEC 264: DIRECT ACCESS TO CLERK ADD MODE

0:	NO
1:	YES

SPEC 265: SELECT NO OF FUNCTION KEY PAGES

0:	3 PAGES
1:	4 PAGES
2:	5 PAGES
3:	6 PAGES

SPEC 269: FUNCTION KEY NAME SETTING

0:	ALLOW
1:	INHIBIT

REVISION RECORDS