

Ishida Astra II

Price Computing Scale With Printer

Technical Manual



Bench Model



Pole Model

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1.0 Introduction

This manual is intended for use by service technicians responsible for installing and servicing Astra II price computing scales.



Manuals and additional resources are available from Rice Lake Weighing Systems at www.ricelake.com/manuals
Warranty information can be found on the website at www.ricelake.com/warranties

An Operation Manual (PN 184270) is included with the scale and provides basic operating instructions for users of the Astra II. Please leave the Operation Manual with the scale when installation and configuration are complete.

1.1 Safety

Safety Signal Definitions:



DANGER Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Includes hazards that are exposed when guards are removed.



WARNING Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death. Includes hazards that are exposed when guards are removed.



CAUTION Indicates a potentially hazardous situation that, if not avoided, could result in minor or moderate injury.



IMPORTANT Indicates information about procedures that, if not observed, could result in damage to equipment or corruption to and loss of data.

General Safety



Do not operate or work on this equipment unless this manual has been read and all instructions are understood. Failure to follow the instructions or heed the warnings could result in injury or death. Contact any Rice Lake Weighing Systems dealer for replacement manuals.



Failure to heed could result in serious injury or death.

- Do not allow minors (children) or inexperienced persons to operate this unit.**
- Do not operate without all shields and guards in place.**
- Do not use for purposes other than weight taking.**
- Do not place fingers into slots or possible pinch points.**
- Do not use any load-bearing component that is worn beyond five percent of the original dimension.**
- Do not use this product if any of the components are cracked.**
- Do not exceed the rated load limit of the unit.**
- Do not make alterations or modifications to the unit.**
- Do not remove or obscure warning labels.**
- Before opening the unit, ensure the power cord is disconnected from the outlet.**
- Do not allow water or any liquids to come into contact with the scale.**
- Do not drop or apply shock to the scale.**
- Do not disassemble, modify or attempt to repair the scale.**
- Do not hold the connector cover when carrying the scale.**
- Do not hold the operation panel or weigh platter when carrying the scale.**
- Do not hold the customer display when carrying the scale.**
- Dispose of batteries according to local regulations.**
- Handle with care when removing or inserting the cassette.**

1.2 FCC Compliance

United States

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canada

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la Class A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

1.3 Product Dimensions

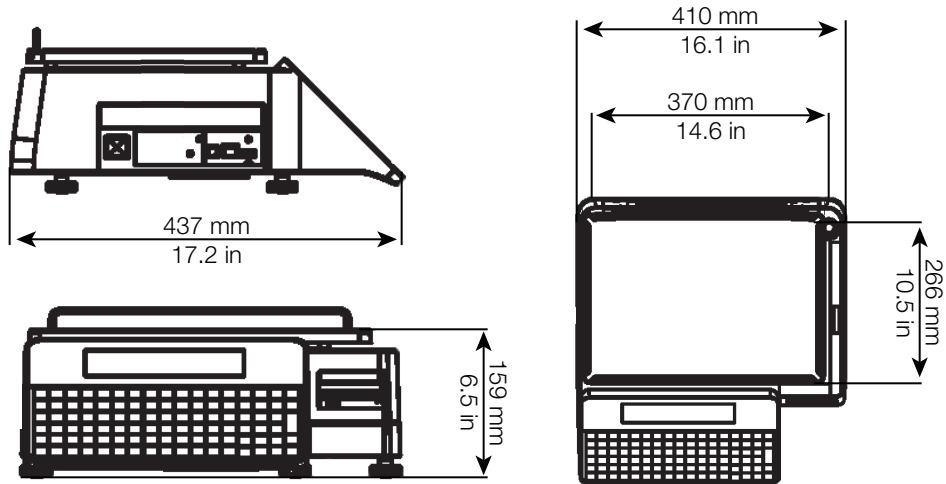


Figure 1-1. Astra II Dimensions for Bench Type

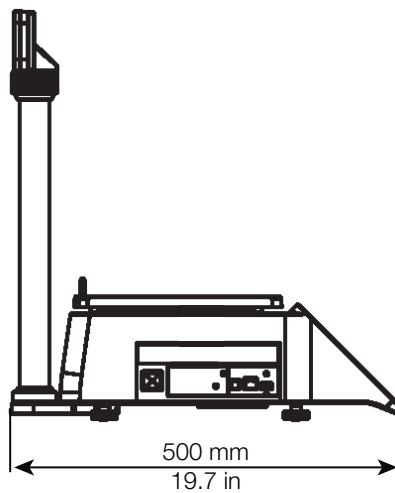
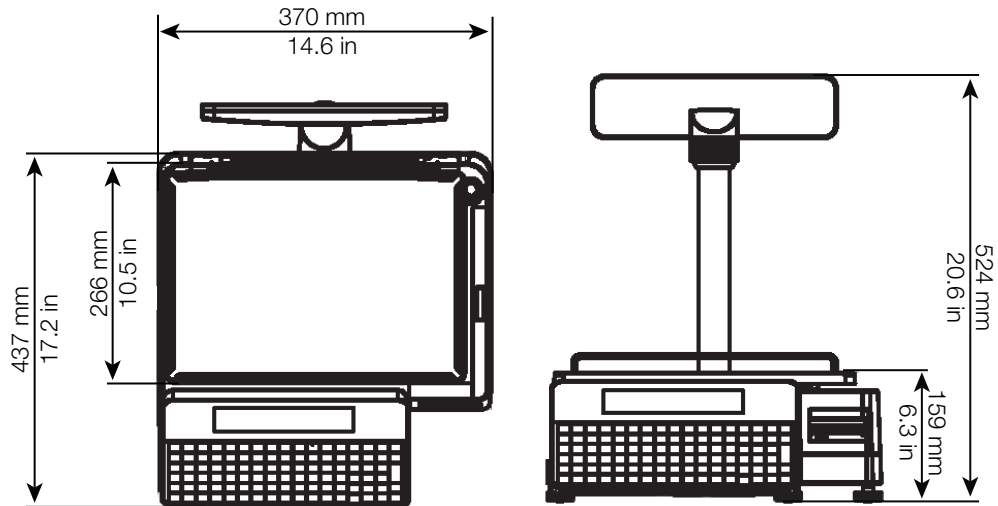


Figure 1-2. Astra II Dimensions for Pole Type

1.4 Overview

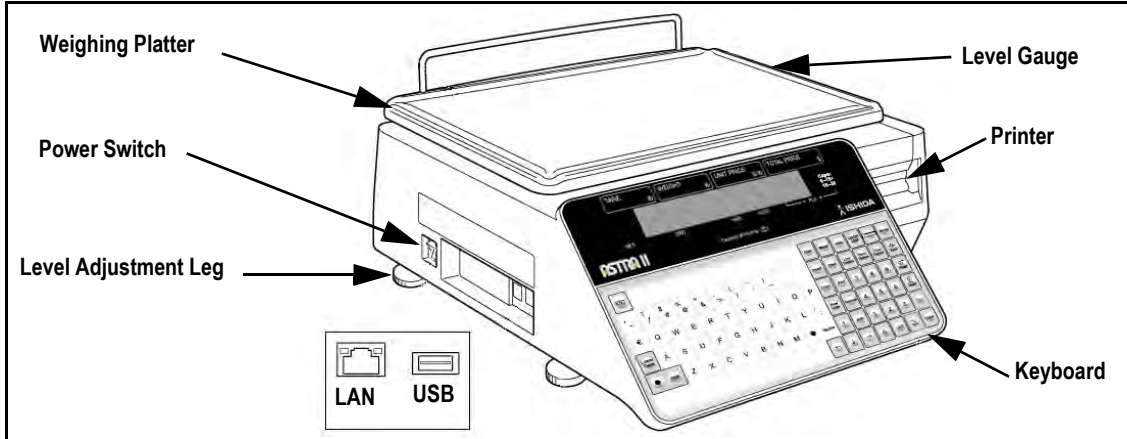


Figure 1-3. Astra II (Bench Model Pictured)

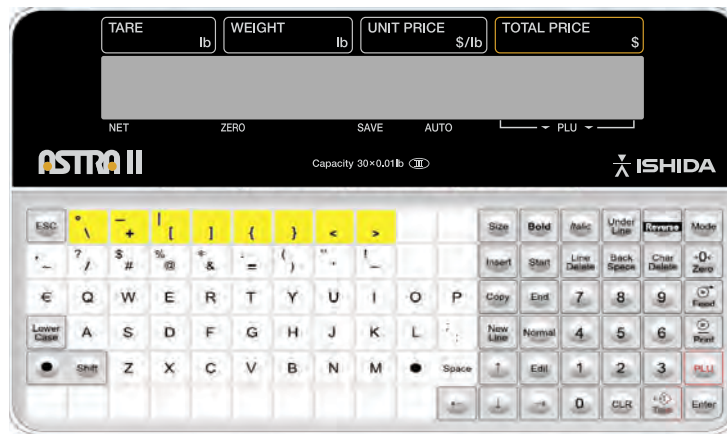


Figure 1-4. Operation Panel



Note Highlighted keys are available but not printed.

Key	Description	Key	Description
	Used to delete an entered numerical value.		Used to enter and exit the menus.
	Used to call a programmed item.		Used to move left.
	Used to feed labels.		Used to move right.
	Used to issue a label.		Used to move up.
	Used to enter tare weight.		Used to move down.
	Used to reset the weight to zero.		Used to escape from the current mode.

Table 1-1. Function Keys

1.5 Basic Operating Procedures

1.5.1 Power On

1. Turn the power switch to **On**.
2. The **Clock Check** screen is displayed. Check that the displayed date and time are correct, press **Enter** on the keypad to proceed to the next step.

```
PLEASE CONFIRM TIME (ENT)
MAR. 08. 20 14      14 20 27
```



Note To adjust the date or time, use the Date/Time menu in Adjustment Mode, see [Section 5.1 on page 59](#).

3. The initial screen is displayed.



Note The contents of the initial screen may differ depending on the settings of your machine.

```
KEY IN ITEM No.
0.000 0.000 0.00      0.00
```

1.5.2 Zero Adjustment

1. If the zero indicator does not appear in the display, press **Zero**.
2. The zero indicator will light up and the weight value becomes zero.

1.5.3 Return to Initial Screen

To return to the initial screen from a menu selection screen, press **Mode** on the keypad.



1.5.4 Issuing Labels

1. Ensure that the initial screen is displayed with zero weight.



Note If ZERO is not indicated on the screen, press **→0←** on the keypad. The product's unit price and tare weight must be set prior to operation.

2. Enter a PLU number and press **PLU**.

Example: To access PLU 1, press  followed by .

Issuing Labels for Weighed Products

1. The designated PLU screen is displayed.
2. Place the product on the weighing platter.
3. The product is weighed and its price is calculated. Press **Print** to issue a label.

```
RIB STEAK
0.050 -0.050 1.23      00000 !
```

Issuing Labels for Fixed Price Products

1. The designated PLU screen is displayed.
2. (Optional) Place the product on the weighing platter. The product is weighed, but its price stays the same.
3. Press **Print** to issue a label.

```
APPLE PIE
1 PC 1 1.23 1.23
```

Issuing Labels Requiring Operator Registration

1. The designated PLU screen is displayed.
2. Place the product on the weighing platter.
3. The product is weighed and its price is calculated.
4. Press an **Operator** button to issue a label.

```
RIB STEAK
0.050 -0.050 1.23      00000 !
```



Note Must have Operator buttons programmed prior to operation. See [Section 8.4 on page 83](#).

1.5.5 Issuing Receipts by the Same Operator

1. Ensure that the **Operator Selection** screen is displayed.
2. Enter a PLU number and press **PLU**.
3. The designated **PLU** screen is displayed.
4. Place the product on the weighing platter.
5. Press **Receipt Subtotal** to complete the registration.
6. The subtotal screen for the designated operator is displayed.
7. Press **Mode** to return.
8. Enter the PLU number.

Example: To access PLU No. 201 (Weighing Fixed Price Product):



9. Place the product on the weighing platter.
10. Press **Receipt Sub-Total** to complete the registration.
11. The subtotal screen for the designated operator is displayed.
12. Press **Mode** to return.
13. Enter the PLU number.

Example: PLU 101



14. Press **Receipt Sub-Total** to confirm the sales data.
15. Press **Print** to issue a receipt.

```
PLEASE SELECT OPERATOR.
PLEASE SELECT OPERATOR.
```

```
RIB STEAK
0.050 -0.050  1.23  00000 1
```

```
*ADD OP1  TTL  13.00
1---  13.00
```

```
LIVE WILD CHERRYSTONE
0.050 -0.050  1.74
```

```
LIVE WILD CHERRYSTONE
0.050 -10.070  1.74
```

```
*ADD OP1  TTL  14.83
2---  14.83
```

```
*ADD OP1  TTL  22.92
3---  22.92
```

1.5.6 Changing Quantities

1. Ensure that the designated PLU screen is displayed.
2. Enter the quantity and press the **Multi** key.

Example: Quantity of three pieces.



Note The optional **Multi** key must be assigned to the keyboard.

```
SALMON FILLET
IPC  1  8.80  8.80
```

```
SALMON FILLET
IPC  1  H  3
```

```
SALMON FILLET
3PC  1  8.80  26.40
```

1.5.7 Specifying the Number of Labels

1. Ensure that the designated PLU screen is displayed.
2. Enter the number of labels to be printed and press **Print**.

Example: Print three labels.



Note To interrupt or restart the issue of labels, press **Print**.

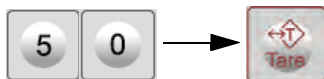
```
SALMON FILLET
IPC  1  8.80  8.80
```

```
SALMON FILLET
IPC  1  H  3
```

1.5.8 Entering or Overwriting Tare Weights

1. Ensure that the designated PLU screen is displayed.
2. Enter a numerical value and press **Tare**.

Example: Tare weight of .050 lb



Note The contents of the initial screen may differ depending on the settings of your machine.

RIB STEAK			
0.000	0.000	1.23	00000 1

RIB STEAK			
0.050	-0.050	1.23	00000 1

1.5.9 Changing Unit Prices

1. Ensure that the designated PLU screen is displayed.
2. Enter the price and press the **Unit Price** key.

Example: Unit Price of \$1.56.



Note The optional Unit Price key must be assigned to the keyboard.

RIB STEAK			
0.000	0.000	1.23	00000 1

RIB STEAK			
0.000	0.000	1.56	00000 1

1.5.10 Changing Fixed Prices

1. Ensure that the designated PLU screen is displayed.
2. Enter the price and press the **Fixed Price** key.

Example: Fixed Price of \$10.00.



Note The optional Fixed Price key must be assigned to the keyboard.

SALMON FILLET			
IPC	1	8.80	8.80

SALMON FILLET			
IPC	1	10.00	10.00

1.5.11 Discounting Unit and Total Prices

Ensure that the designated PLU screen is displayed.

Discounting Prices By Amount

Enter the amount to be discounted and press the **-\$ (U/P)** key.

Example: Discount amount of \$0.50.



Note The optional **-\$** key must be assigned to the keyboard.

RIB STEAK			
0.000	0.000	1.23	00000 1

RIB STEAK			
0.000	0.000	H	50

Discounting Prices by Percentage

Enter the discount percentage and press the **-\$ (U/P)** key.

Example: Discount percentage of 10%.



Note The optional **-%** key must be assigned to the keyboard.

RIB STEAK			
0.000	0.000	H	100

1.5.12 Voiding Product Registrations

1. To void the previous product registration during the transaction, display the **Sub-Total** screen.
2. Press **Void**.
3. The confirmation screen is displayed.
4. Press **Enter** to continue, or **ESC** to go back.
5. The designated product registration has been voided.
6. Press **Print** to issue a receipt.

```
#ADD OP1 TTL      22.92
3---              22.92
```

```
*NETWORK NUMBER
60 1-0 1-05      2
```

```
#ADD OP1 TTL      21.09
2---              21.09
```

1.6 Menu Navigation

To enter a mode, enter the corresponding number and press the **Mode** key. To exit any mode, press the **Mode** key.

Some functions in the Setup and Adjustment modes are restricted to authorized service personnel. Enter the service password **495344** and press **PLU** to access all mode steps. All mode steps will then be available until the scale returns to normal operation mode. To exit any menu or sub-menu, press the **Mode** key.

- Use the **Up** and **Down** arrow keys to select a parameter within a menu.
- Press the **Enter** key to enter a parameter.
- Use the **Up** and **Down** arrow keys to scroll through the menu options.
- Use the **Left** and **Right** arrow keys to scroll through the choices of each parameter.
- Enter the choice number and press **Enter** to select the desired choice.



Note All menu options may not be available depending on what settings are selected.

Setup 6000		Adjustment 4000		Operation 2000		Total 8000		Program 9000	
B01	Machine No.(comms)	C01	Date / Time	S01	Sales	F05	Product Daily Total	P01	PLU
B02	Sales Mode	C03	Display Check	S06	Total Adjust	F06	Product Weekly Total	P02	Campaign
B03	Password	C04	Key Check			F07	Product Cumulative Total	P04	Preset Keys
B05	Data Storage	C05	Firmware Details			F12	Total Clear	P06	Store
B07	PLU Overwrite	C06	Memory Clear					P07	Department
B08	PLU Initial Data	C07	Printer					P08	Group
B11	Cassette	C08	Calibration					P09	Cooking Time
B12	Label Spec.	C10	Download					P10	Nutrition
B13	Label Format	C13	Model					P11	Extra Message 1
B14	Barcode							P12	Extra Message 2
B17	Operation Setting							P13	Extra Message 3
B18	Error Process							P19	Lookup Table
B20	Traceability							P21	Fix Price Symbol
B22	Price Rounding							P37	Check Label
B23	Frequent Shopper							P40	Price Change
B26	Country								
B27	File Save/Load								
B31	Mode Code								

Table 1-2. Menu Navigation

1.7 Configuration Features with Menu Locations

Feature	Menu	Step	Step No.	Comments
Auto PLU Call	Setup	Operation Setting	B17-10 (page 50)	Auto PLU. Disable by func key: Auto PLU (117)
Auto Print (Prepack)	Setup	Cassette	B11-08 (page 45)	0: Manual, 1: Auto
Backup (by USB)	Setup	File Save/Load	B27 (page 56)	B27-01 "Scale>USB": backup, B27-02 "USB>Scale": restore
Barcode OCR	Setup	Barcode	B14-02-02 (page 47)	1: 13-digits, 2: 12-digits
Calibration	Adjust	Calibration	C08 (page 62)	--
Cassette	Setup	Cassette	B11 (page 45)	--
Comms Check Timer	Setup	Machine No. (Comms)	B01-03-03 (page 40)	PC Comm
Country	Setup	Country	B26-01-01 (page 53)	951753+PLU. 1: USA
Date & Time	Adjust	Date Time	C01 (page 59)	Enter time in 24-hour format
English	--	--	--	See Language
Extra Message Error	Setup	Error Process	B18-02-03 – 05 (page 51)	Error for non-existent Extra Messages. 1: No, 2: Yes (default). [0275-0277]
Forced Tare Setting	Setup	Error Process	B18-01-02 (page 51)	Issue. 1: No (default), 2: Yes. Error 0284 "Tare Weight Not Set"
Frequent Shopper	Setup	Freq. Shopper	B23 (page 52)	Barcode price & FS image
Freq. Shop. Rounding	Setup	Price Rounding	B22 (page 52)	--
IP Address	Setup	Machine No. (Comms)	B01-02-01 (page 40)	IP Address
Label Format	Setup	Label Format	B13 (page 46)	--
Language	Setup	Country	B26-01-02 (page 53)	--
Maximum Tare	Setup	Country	B26-03-04 (page 53)	495344+PLU, Detail, Weight, 14789632+PLU
Min. Print Weight	Setup	Country	B26-03-05 (page 53)	495344+PLU, Detail, Weight, 951753+PLU. 1: 20e (default), 2: 5e, 3: 3e
Memory Clear	Adjust	Memory Clear	C06 (page 61)	--
Password Setup	Setup	Password	B03 (page 41)	--
Peel Sensor	Setup	Label Spec	B12-15 (page 46)	0: On (default), 1: Off
PLU Auto Program	Setup	PLU Overwrite	B07 (page 42)	Save operator override as permanent change. 1: Yes, 2: No (default)
PLU Name Display	Setup	Operation Setting	B17-01-05 (page 50)	Display PLU description. 1: No (default), 2: Yes
PLU Name Disp. Timer	Setup	Operation Setting	B17-03-07 (page 50)	Time PLU description is displayed (sec)
Port Number	Setup	Machine No. (Comms)	B01-03-02 (page 40)	PC Comm
Print Head Error	--	--	--	See Thermal Head Error
Shelf Life: +1 Day	Setup	Country	B26-04-05 (page 53)	495344+PLU, B26-01-03 Detail, PLU, Date. 1: Next Day (default), 2: Today
Spanish	--	--	--	See Language
Store Address Set	Program	Store	P06-04 (page 73)	Set store number 1–9999, 9999 (default)
Thermal Head Error	Setup	Error Process	B18-03-01 (page 51)	Common (Error 0347-000x) 1: Once, 2: Always, 3: None (default)
Zero Price Settings	Setup	Error Process	B18-01 (page 51)	B18-01-03 Error: 1: No, 2: Yes (default)

Table 1-3. Configuration Features with Menu Locations

1.8 Quick Setup

Refer to the following items for step by step instructions to configure common Astra II features. Refer to the later sections of the manuals for additional details of each item.

1.8.1 Set the Time and Date

Use the following steps to set the time and date.

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **4000** then press **Mode**. < C00 ADJUST > displays.
3. Press the **Down Arrow**. C01 DATE TIME displays.
4. Press **Enter**. C01-01 DATE displays along with the current programmed date.
5. Enter the date in a MMDDYYYY format.
Example: For June 21, 2021, enter 06212021.
6. Press **Enter** twice. C01-02 TIME displays along with the current programmed time.
7. Enter the time in a HHMMSS format.
Example: For 1:10:00 pm, enter 131000 (time is entered in 24 hour format).
8. Press **Enter** twice. C01-04 JULIAN DATE displays.
9. Press **Mode**. 1801-0000 ENT OR CLR displays.
10. Press **Enter**. C01 DATE TIME displays.
11. Press **Mode** twice to exit Adjustment Mode. Scale is ready to resume operation.

1.8.2 Program Store Address

Use the following steps to enter store information.

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **9000** then press **Mode**. < P00 PROGRAM > displays.
3. Press **6** then press **Enter**. P06 STORE displays.
4. Press **Enter**. P06-00 no.XXXX displays.
5. Enter the Store Number then press **PLU**.



Note If the store name is new, 13001-0000 ENT or CLR is only displayed. Press **Enter** to continue or **CLR** to quit.



Note If the store name exists, the scale jumps directly to InP 0001-0000 00 after the **PLU** key is pressed. To delete any existing text, press **Line Delete**.

6. Press **Enter**. INP 0001-0000 00 displays.



Note See [Section 6.3 on page 71](#) for text editing information.

7. Type the store name then press **Enter**. 19001-0000 ENT OR CLR displays.
8. Press **Enter**. P06-00 NO. XXXX displays.
9. Press **2** then press the **Down Arrow**. P06-02 ADDRESS displays.
10. Press **Edit**. INP 0001-0000 00 displays.



Note Press **Line Delete** to remove any existing text.

11. Type the store address then press **Enter**. 19001-0000 ENT OR CLR displays.
12. Press **Enter**. P06-00 NO. XXXX displays.
13. Press **4** then press the **Down Arrow**. P06-04 PRINTER1 displays.
14. Enter the Store Number used in step 5. Press **Enter** twice to assign programmed store. P06-00 NO. XXXX displays.
15. Press **Mode** three times to exit the Program Mode. Scale is ready to resume operation.

1.8.3 Program Price Changes

Use the following steps to change prices for existing items.

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **9000** then press **Mode**. < P00 Program > displays.
3. Press **40** then press **Enter** twice. P40-00 PLU displays.
4. Enter the PLU number to be changed, then press **PLU**.
5. Enter the new price and press **Enter**. The new price and the old price are displayed.
6. Repeat steps 4 - 5 until all price changes have been made.
7. Press **Mode** three times to exit Program Mode. Scale is ready to resume operation.

1.8.4 Set Preset Speed Keys

Use the following steps to set up preset speed keys and function keys.

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **9000** then press **Mode**. < P00 PROGRAM > displays.
3. Press **4** then press the **Down Arrow**. P04 PRESET KEY displays.
4. Press **Enter**. P04-01 000 0 displays.
5. Key in the appropriate Key Flag No. from Table 1-4, then press the **PLU** key.



Note

For a complete list of preset keys, see [Section 6.3, P04-Preset Key Registration, on page 71](#).

Several preset keys are set by default. See [Section 6.3.1, Default Preset Keys, on page 72](#).

6. If the key type requires a specific value such as PLU No. or Tare, key in the number. Otherwise, enter the number **0**.
7. Press the desired speed key. The Key Flag No., key position number and key data value display.
8. Repeat steps 5-7 for all preset speed keys.
9. Press **Mode** three times to exit Program Mode. Scale is ready to resume operation.

Key Flag No.	Parameter
1	PLU
2	TARE
3	FIXED PRICE
4	X MULTIPLY
8	SAVE
16	EXTRA MSG 1
17	EXTRA MSG 2

Key Flag No.	Parameter
18	EXTRA MSG 3
22	LABEL FORMAT
23	IMAGE 1
24	IMAGE 2
26	PEEL MODE
32	UNIT PRICE

Key Flag No.	Parameter
33	PACK DATE
34	SELL BY DATE
75	AUTO/MANUAL MODE
137	PRINT QTY
156	LOWER PRESET
162	ENTER FIXED WEIGHT

Table 1-4. Common Key Flag Parameters

1.8.5 Set IP Address of the Scale

Use the following steps to set IP address of the scale.

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **6000** then press **Mode**. < B00 SETUP > displays.
3. Press **1** then press **Enter** twice. B01-02 < IP ADDR > displays.
4. Press **Enter**. B01-02-01 displays along with current set IP address.
5. Enter the 12 digit IP address, then press **Enter**. B01-02-01 displays along with newly set IP address.

Example: enter 192168004025 for 192.168.4.25



Note Use leading zeros and omit the decimals.

6. Press the **Down Arrow**. B01-02-02 displays along with current set subnet mask.
7. Enter the 12 digit Subnet Mask then press **Enter**. B01-02-02 displays.
Example: enter 255255255000 for 255.255.255.0
8. Press **Mode**. 14034-0000 ENT OR CLR displays.
9. Press **Enter**. 15029-0001 displays.
10. Power off the scale. Wait 10 seconds before proceeding.
11. Power on the scale. After rebooting, the current set date and time displays.
12. Press **Enter**. Scale is ready to resume operation.

1.8.6 Set the IP Address of the PC

Use the following steps to set the IP address of the PC. This is the target address for a ping test.

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **6000** then press **Mode**. < B00 SETUP > displays.
3. Press **Enter** twice. B01-02 < IP ADDR > displays.
4. Press the **Right Arrow**. B01-03 < PC COM > displays.
5. Press the **Down Arrow**. B01-03-01 displays along with current set PC IP address.
6. Enter the 12 digit PC IP address then press **Enter**. B01-03-01 and newly entered IP Address displays.
7. Press the **Down Arrow** twice. B01-03-03 COM CHK displays.
8. Enter a number between 30 and 9999. Press **Enter**. B01-03-03 COM CHK and entered number displays.



Note A value of 600 is recommended.

9. Press **8** then press **Down Arrow**. B01-03-08 PING TO PC displays.
10. Press **Zero** to execute PING to test connection to PC. If ping is successful, there will be one long beep. If ping is unsuccessful, there will be five short beeps.
11. Press **Mode**. 14034-0000 ENT OR CLR displays.
12. Press **Enter**. 15029-0001 displays.
13. Power off the scale. Wait 10 seconds before proceeding.
14. Power on the scale. After rebooting, the current set date and time displays.
15. Press **Enter**. Scale is ready to resume operation.

1.8.7 Set Label Cassette for Default Label Format

Use the following steps to set the label cassette for the default label format.

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **6000** then press **Mode**. < B00 SETUP > displays.
3. Enter the password **495344** then press **PLU** to enter service level. < B00 SETUP > displays.
4. Press **11** then press the **Enter**. **B11 CASSETTE** displays.
5. Press **Enter**. **B11-01 CAST No.** displays.
6. Press **4** then press the **Down Arrow**. **B11-04 FMT No.** displays.
7. Enter the desired default label format number (See [Table 1-5](#) for maximum description text limits and [Section 9.3 on page 87](#) for label format examples). Press **Enter**. **B11-04 FMT No. with number** displays.

Titles On Labels Are Pre-Printed (SELL BY, PACKED ON, \$ LB., NET WT, TOTAL PRICE)	
Maximum Description Text per Label for Default Label Formats	
Formats 1-5	1 name line + 2 ingredient lines
Format 6	1 name line + 6 ingredient lines
Format 7	1 name line + 17 ingredient lines
Format 8	1 name line + 6 ingredient lines

Table 1-5. Default Label Formats

8. Enter **9**, then press the **Down Arrow**. **B11-09 LBL TYPE** will display.



Note A custom label format must be used that includes titles, etc. when using continuous strip label.

9. Enter **0** for Die Cut or **1** for Continuous. Press **Enter**.
10. Enter **17** then press the **Down Arrow**. **B11-17 PLU NAME** will display.
11. Enter **0** for Fixed or **1** for Variable. Press **Enter** twice. **B11-18 XTRAMSG1** will display.
12. Enter **0** for Fixed or **1** for Variable. Press **Enter** twice. **B11-19 XTRAMSG2** will display.
13. Enter **0** for Fixed or **1** for Variable. Press **Enter** twice. **B11-20 XTRAMSG3** will display.
14. Enter **0** for Fixed or **1** for Variable. Press **Enter**. **B11-20 XTRAMSG3** will display.



Note When using continuous labels, settings B11-17 through B11-20 should be set to "1" for Variable.

15. Press **Mode** three times to exit the Setup Mode. **KEY IN ITEM No.** will display. The scale is ready to resume operation.

1.8.8 Load File from Flash Drive



Note USB specifications: 8 GB or smaller, FAT32 format, USB 3.0 (P/N 160906 is recommended)

Use the following steps to load files from a flash drive.

1. Remove the Speed Key Insert page if in use over the keys.
2. Insert a flash drive containing a DATA0X Folder.



Note Where 0X is the folder number. The maximum number of folders is seven (DATA01 - DATA07). Only folders named DATA0X will be recognized.

3. Enter **6000** then press **Mode**. < B00 SETUP > displays.
4. Enter the password **495344** then press **PLU** to enter service level. < B00 SETUP > displays.
5. Enter **27** then press the **Down Arrow**. **B27 FILE SAVE / LOAD** displays.
6. Press **Enter** twice. **B27-01-01 I/P SELECT** displays.
7. Press **PLU**. **B27-100 SEL USB FOLDER** displays. This may take up to 30 seconds as files are scanned.
8. Press the **Down Arrow** to locate file to be loaded. **B27-10x and File Name** displays.

9. Press **PLU** to select file. *B27-01 < USB-TO-SCALE >* displays.
10. Press the **Down Arrow** twice. *B27-01-03 MASTER MODE* displays.
11. Press **1** for Auto (all files) or press **2** for Manual (individual files) load. Press **Enter**. *B27-01-03 MASTER MODE* with the selected load choice displays.
12. If **2** Manual is selected, press the **Down Arrow** to select the file(s) to be loaded. Otherwise, go to Step 16.
13. At the desired files, press **1** then **Enter**.
14. Repeat steps 12-13 for any additional files to be loaded.
15. Press the Up arrow to *B27-01-03 MASTER MODE*.
16. Press **Enter**. *B27-01-04 EXECUTE* displays.
17. Press **Zero**. *14011-0000 INPUT CHECK* displays.
18. Press **Enter** to begin loading files or press **CLR** to quit. *14013-0000 COMPLETE INPUT* displays when complete.
19. Press **Enter**. Press **Mode** three times to exit Setup Mode.
20. Remove the flash drive. Scale is ready to resume operation.

1.8.9 Save File to Flash Drive



Note

USB specifications: 8GB or smaller, FAT32 format, USB 3.0 (P/N 160906 is recommended)

Use the following steps to save files to a flash drive.

1. Remove the Speed Key Insert page if in use over the keys.
2. Insert a flash drive.
3. Enter **6000** then press **Mode**. *< B00 SETUP >* displays.
4. Enter the password **495344** then press **PLU** to enter service level. *< B00 SETUP >* displays.
5. Enter **27** then press the **Down Arrow**, then press **Enter**. *B27-01 < USB-TO-SCALE >* displays.
6. Press the **Right Arrow** then press **Enter**. *B27-02-01 O/P SELECT* displays.
7. Press **PLU**. *B27-200 SEL USB FOLDER* displays.
8. Press the **Down Arrow** to select an empty folder. *B27-20X USB DATA 0X* displays.
9. Press **Edit** to name folder. *INP 0001-0000 TA* displays.
10. Type in folder name. Press **Enter**. *B27-02 < SCALE-TO-USB >* displays.
11. Press **3** then press the **Down Arrow**. *B27-02-03 MASTER MODE* displays.
12. Enter **1** for Auto (all files). Press **Enter**. *B27-02-03 MASTER MODE* displays with selection.
13. Press **Enter**. *B27-02-04 EXECUTE* displays.
14. Press **Zero**. *14012-0000 ENT OR CLR* displays.
15. Press **Enter** to begin sending file to USB or press **CLR** to quit. *14014-0000* displays when complete.
16. Press **Enter** then press **Mode** three times to exit Setup Mode.
17. Remove the flash drive. Scale is ready to resume operation.

1.8.10 Set Product Name Display Timer

Use the following steps to set the product name display timer. The timer is enabled by default and set for three seconds.



Note *If weight is on the platter when the PLU is called the name will not display.*

1. Remove the Speed Key Insert page if in use over the keys.
2. Enter **6000** then press **Mode**. *< B00 SETUP >* displays.
3. Enter the password **495344** then press **PLU** to enter service level. *< B00 SETUP >* displays.
4. Enter **17** then press the **Down Arrow** then press **Enter** twice. *B17-01-02 OPEN PLU* displays.
5. Enter **4** then press the **Down Arrow**. *B17-01-05 SEG.PLU* displays.
6. Enter **2** then press **Enter** three times. *B17-01 < CALL >* displays.
7. Enter **2** then press the **Right Arrow**, then press **Enter**. *B17-03-01 REG TMR* displays.
8. Enter **4** then press the **Down Arrow**. *B17-03-07 SEG.PLU TMR* displays.
9. Enter **3** then press **Enter**. *B17-03-07 SEG.PLU TMR* displays.



Note *By entering 3, the display timer is being set to three seconds.*

10. Press **Mode** three times to exit Setup Mode. Scale is ready to resume operation.

2.0 Installation

The following is an overview of the installation procedure for the Ishida Astra II scale.



WARNING

Ensure the user has read and understands the Safety section of this manual.

- Always use a power supply with rated voltage. Never connect scale power input with an AC power supply exceeding the rated voltage. To avoid any potential electrical shock, ensure that protective ground wire is connected to main grounding provision. Using the scale outside of the rated voltage may result in machine failure or danger such as electric shock.
- Prepare a dedicated power source. A power supply that generates voltage variation may cause a malfunction.
- Do not stand or place anything heavy on the power cord, doing so may damage the cord.
- Disconnect power supply before servicing.
- Take precaution against residual electrical charge hazard. Capacitors inside the scale may still hold an electrical charge even after power is disconnected.
- Do not remove covers or enclosures.
- Do not perform unspecified maintenance.

IMPORTANT

Do not install the scale in the following types of places:

- Subject to high temperatures or high humidity.
- Exposed to direct sunlight.
- Where water or other liquids are easily spilled on the scale.
- Subject to excessive vibration or unstable foundations.
- Exposed to direct cold air from air conditioners or refrigerators.
- Where the floor or foundation is unstable.
- Subject to a lot of dust or dirt.
- With large voltage fluctuations.

2.1 Installation

The following is an overview of the installation procedure of the Astra II scale.

2.1.1 Preliminary Information

1. Determine the IP address(es) to be assigned to the scale(s).

2.1.2 Preliminary Setup Before Delivery

1. Remove the scale from the box.
2. Assemble the scale.



Note

For pole models, place any excess cable inside the pole—not the scale body.

3. Check the firmware version. See [Section 5.4 on page 60](#).
4. If necessary, upgrade the firmware. See [Section 5.8.1 on page 64](#).



Note

Check www.ricelake.com/ for the latest firmware version. Must log in to download.

5. Clear the scale's memory. See [Section 5.5 on page 61](#).
6. Configure the country. See [Section 4.16 on page 53](#).
7. Set the date and time. See [Section 1.8.1 on page 10](#).
8. Program the IP Address and Subnet Mask. See [Section 1.8.5 on page 12](#) and [Section 1.8.6 on page 12](#).
9. Load label roll. Refer to the diagram on the inside of the right side printer cover.

10. Load backup file from USB ([Section 1.8.8 on page 13](#)) or from the ScaleLink Pro 5 Lite Maintenance Utility (SLP-5 Lite).
11. If necessary, download or create label formats using SLP-5 Lite.
12. Configure the scale as needed:
 - Label Cassette ([Section 1.8.7 on page 13](#))
 - Passwords ([Section 4.3 on page 41](#))
 - Save temporary changes as permanent changes ([Section 4.5 on page 42](#))
 - Barcode format–weight and fix price ([Section 4.10 on page 47](#))
 - Show item description ([Section 1.8.10 on page 15](#))
 - Error conditions ([Section 4.12 on page 51](#))
 - Minimum print weight [B26-03-05] ([Section 4.16 on page 53](#))
 - Maximum tare [B26-03-04] ([Section 4.16 on page 53](#))
13. If necessary, download or program the PLU file, messages, keyboards, etc., from SLP-5 Lite.
14. Test scale operation.

2.1.3 At the Customer's Location

1. Confirm all Ethernet cables have been run.
2. Position all scales and connect them to the Ethernet cables.

2.1.4 At the Customer's Location – Wrap Up

1. Connect laptop to the network – confirm scale communications.
2. Test scale communication with the customer's computer using the Ping command.
3. Install and configure SLP-5 Lite on the customer's computer.
4. Test scale communications with SLP-5 Lite.
5. Back up all scales using SLP-5 Lite on the customer's computer.
6. Calibrate the scale. See [Section 5.7 on page 62](#).
7. Make USB backups. See [Section 1.8.9 on page 14](#).

3.0 Service

WARNING Disconnect power supply before servicing.

3.1 Repair Parts

3.1.1 Bench Replacement Parts

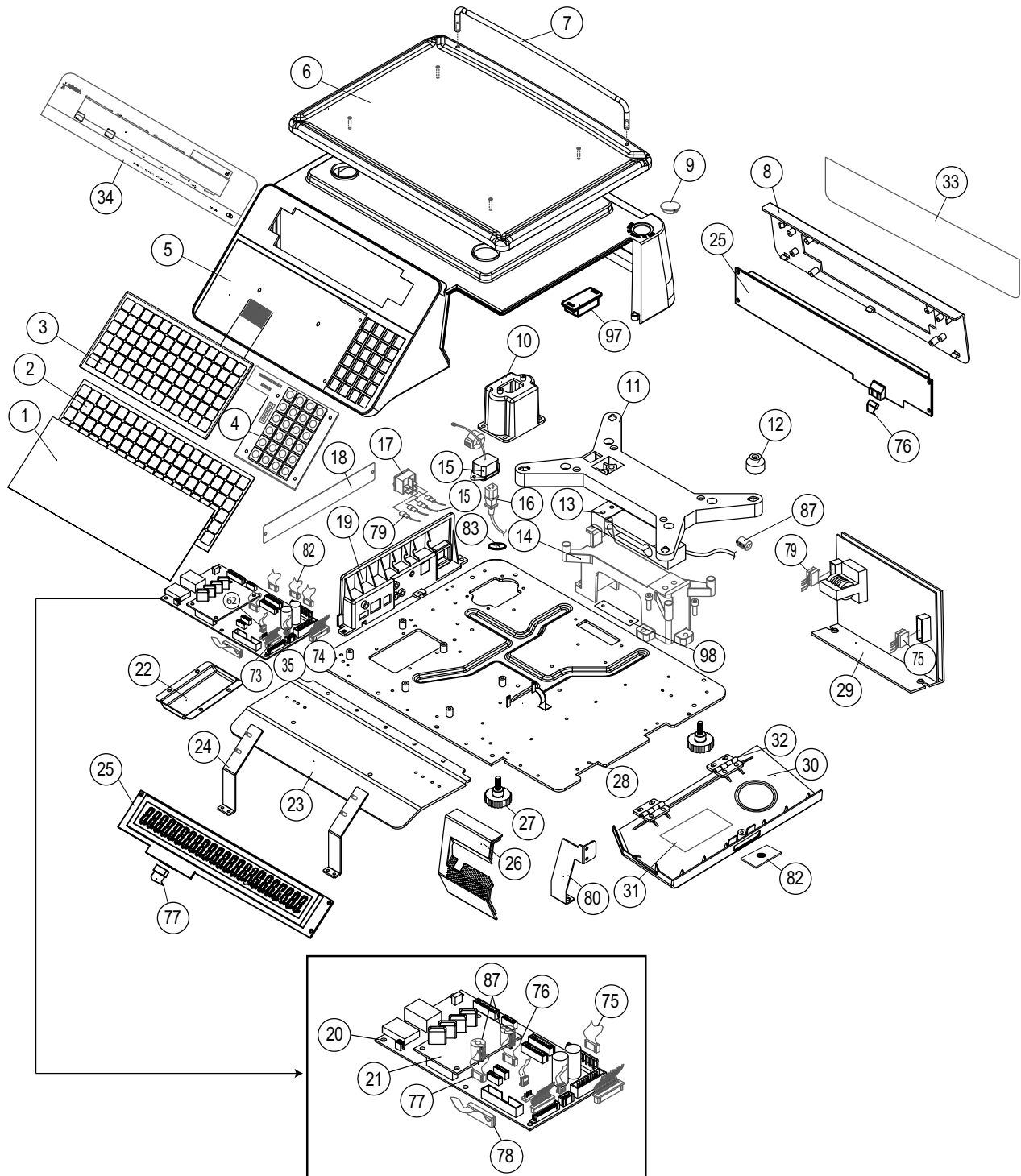


Figure 3-1. Astra II Parts

Item No.	Part No.	Description	Qty	Item No.	Part No.	Description	Qty
1	169722	Sheet (keysheet protection)	1	26	169733	Cover-printer front	1
2	169723	Edit-keysheet	1	27	79432	Foot, level	4
3	169724	Membrane keypad	1	28	Consult	Base, plate	1
-	170916	Keysheet, operation insert	1	29	107707	Power supply, LSF100-24	1
4	169725	PWB, PS-068 tactile keys	1	30	169734	Cover-printer side	1
5	181179	Case	1	31	169735	Decal, label loading printer	1
6	169727	Platter (SUS304)	1	32	66383	Hinge (Plastic)	2
7	169728	Guard (Platter backstop)	1	33	192538	Display sheet, customer	1
-	42848	Screw, Phillips, M4-0.7 x 8, pan head	2	34	192537	Display sheet, operator	
8	181183	Cover customer	1	75	47073	Harness, S2, power, out to CPU	1
9	102812	Lens	1	76	170778	Harness, C3, display, customer	1
10	Consult	Support-power outlet	1	77	170779	Harness, S2, display, operator	1
11	Consult	Support platter	1	78	170780	Harness, S2, keyboard	1
12	44406	Rubber plate support	4	79	66396	Harness, C3, power, in from switch	1
13	80963	Load cell, 30 lb, C2G1-25K-S18	1	80	Consult	Bracket, printer	1
14	Consult	Base (load cell)	1	82	198435	Bracket, magnet	1
15	80969	Harness, C4, power, includes receptacle	1	83	Consult	Label, GND cord	1
16	80991	Power cord	1	87	Consult	Ferrite, core	2
17	66398	Switch, power	1	97	Consult	Magnet	1
18	Consult	Nameplate	1	98	Consult	Bracket, base cover	1
19	Consult	Cover, connector	1				
20	169730	PWB, PS-990G-2, CPU board 2M	1				
21	169729	PWB, PS-067, A/D board	1				
22	169731	Cover (Base port)	1				
23	Consult	Base 2	1				
24	Consult	Bracket (Display)	2				
25	169783	LCD display	2				

Table 3-1. Astra II Parts List

3.1.2 Printer Replacement Parts

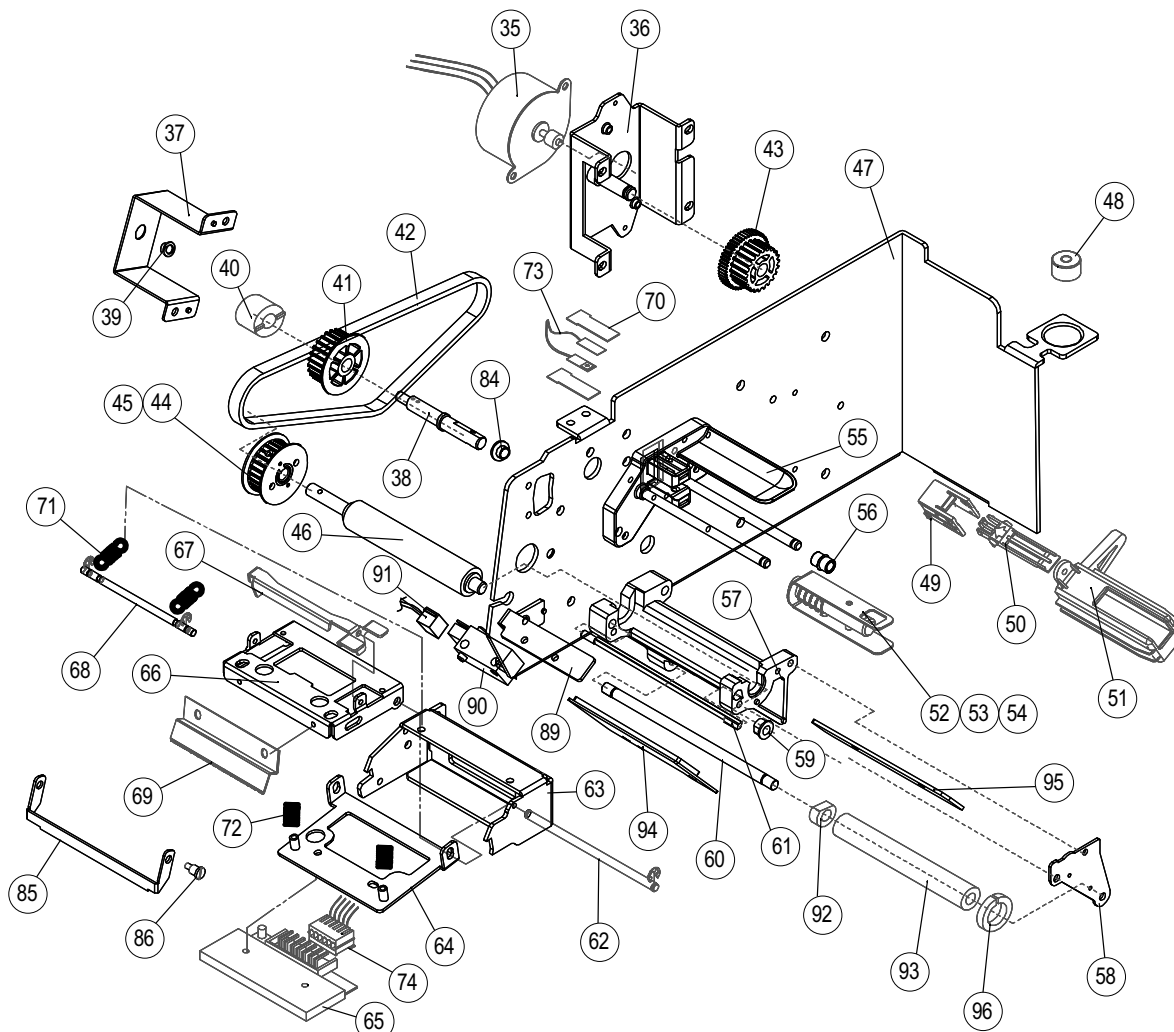


Figure 3-2. Astra II Printer Parts

Item No.	Part No.	Description	Qty.
35	179441	Motor stepping,49P048L0-00702	1
36	Consult	Bracket motor	1
37	Consult	Bracket	1
38	193844	Axis-rewind	1
39	Consult	Bush, CSB-EPBF-0507-04	1
40	Consult	Bush, OLTC6-1500C	1
41	179442	Gear-rewind	1
42	179443	Timing belt, 3M-HTD-330	1
43	179444	Gear dual	1
44	179445	Gear driver	1
45	179446	Cover, gear-drive	1
46	169737	Roller rubber	1
47	192243	Frame, printer	1
48	44425	Level unit	1
49	66378	Holder guide label	1
50	66376	Lever guide label	1
51	Consult	Holder label	1
52	185465	Bracket	1
53	185467	Spring, bobbin	1
54	185468	Shaft, bobbin	1
55	198378	Support, NL	1
56	191914	Axle bush	32
57	192244	Support, roll, NL	1
58	192245	Cover	1
59	66370	Bush, left	2

Item No.	Part No	Description	Qty.
60	193226	Axis	1
61	193225	Peel shaft	1
62	45221	Shaft	1
63	192246	Frame head	1
64	191529	Bracket head	1
65	119169	Thermal head, CHX56-9719A, 1100 ohm	1
66	192247	Bracket lock	1
67	177790	Bracket push	1
68	188149	Axis, hold (printer)	1
69	188153	Tear bar	1
70	195440	Bracket, sensor	2
71	45206	Tension spring	2
72	45203	Spring coil	2
73	104832	Label gap sensor assembly	1
74	104267	Harness, S2, thermal head	1
84	193845	Bush, CSB-EPBR-0608-04	1
85	199263	Bracket, cutter	1
86	199264	Screw, cutter	2
89	193312	Bracket, peel sensor	1
90	179447	Photo interrupter, reflector, peel sensor	1
91	195421	Harness, peel sensor, 160 mm	1
92	Consult	Shaft, POM	1
93	Consult	Bush	1
94	193224	Bracket, peel off	1
95	Consult	Bracket, fixed	1
96	Consult	Label guide	1

Table 3-2. Astra II Printer Parts List

3.1.3 Pole Replacement Pole Type Parts

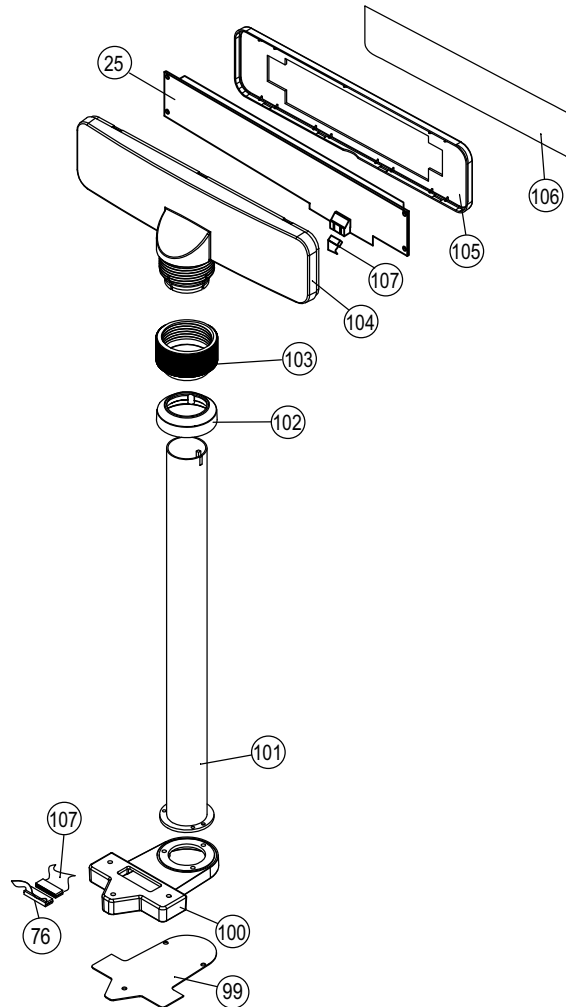


Figure 3-3. Pole Display Assembly

Item No.	Part No.	Description	Qty
25	169783	Display, LCD	1
76	192542	Harness, C3, display	1
99	192238	Bracket, pole base	1
100	177789	Pole base	1
101	192239	Pole	1
102	192240	Cover, pole base	1
103	178626	Lock nut	1
104	192241	Case, display, B	1
105	192242	Case, display, F	1
106	192539	Display sheet, customer	1
107	190023	Harness, S2, display	1

Table 3-3. Pole Display Replacement Parts

3.2 Block Diagram

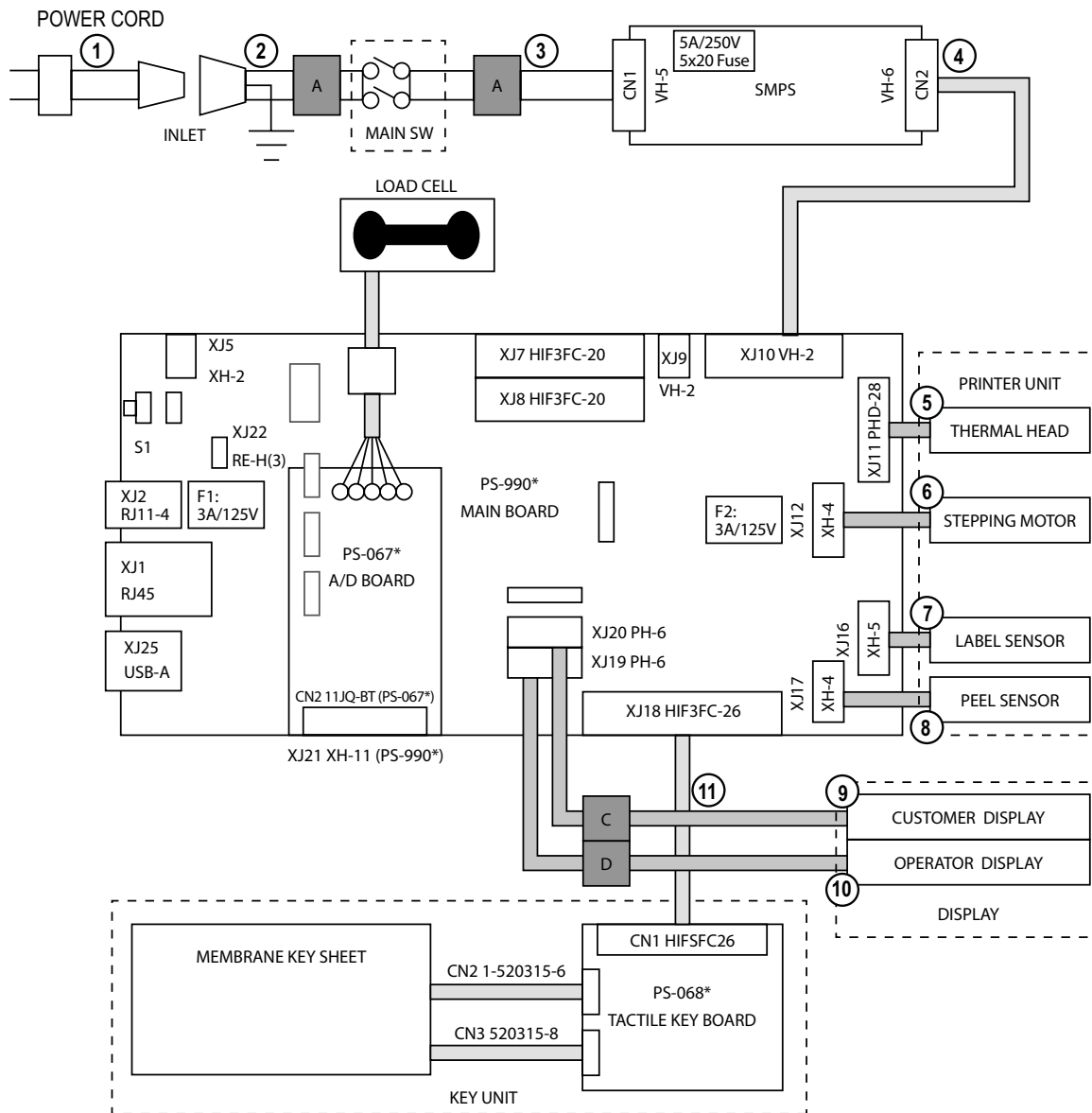


Figure 3-4. Block Diagram (Bench and Pole Types)

Item No.	Purposes
1	AC power cord
2	Power receptacle assembly
3	AC power to SMPS (power supply)
4	DC+24V to main board
5	Thermal head
6	Stepping motor assembly
7	Label gap sensor assembly

Item No.	Purpose
8	Peel sensor
9	Bench type customer side display
	Pole type customer side display
	Pole type operator side display
10	Operator side display
11	Keyboard

Table 3-4. Harness List

3.3 Electric Signals

3.3.1 Main Board

No.	Signal Name	Direction	Opposite Side
1	TX+	<-->	LAN
2	TX-	<-->	
3	RX+	<-->	
4	Not Connected		
5	Not Connected		
6	RX-	<-->	
7	Not Connected		
8	Not Connected		

Table 3-5. XJ1

No.	Signal Name	Direction	Opposite Side
1	DC+24V main power supply	-	Switching power supply
2	GND	-	

Table 3-6. XJ10

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Thermal head
2	GND	-	
3, 4, 6, 10, 27	Thermal head control signal	-->	
5, 7-9, 28	Not connected		
11, 12	Thermistor input signal	<--	
13-19	GND	-	
20-26	DC+24V for thermal head	-	

Table 3-7. XJ11

No.	Signal Name	Direction	Opposite Side
1	1A	-->	Stepping motor for printer
2	1B	-->	
3	2A	-->	
4	2B	-->	

Table 3-8. XJ12

No.	Signal Name	Direction	Opposite Side
1	DC+3.3V	-	Label gap sensor
2	VCC for LED	-->	
3	GND	-	
4	Sensor in	<--	
5	Not connected		

Table 3-9. XJ16

No.	Signal Name	Direction	Opposite Side
1	DC+5V for peel sensor	-	Peel sensor
2	GND	-	
3	DC+3.3V	-	
4	Sensor in	<--	

Table 3-10. XJ17

No.	Signal Name	Direction	Opposite Side
1-8	Key scanning KS0-KS7	→	Tactile keyboard PS-068
9-23	Key data KD0-KD14	←	
24-26	Not connected		

Table 3-11. X18

No.	Signal Name	Direction	Opposite Side
1, 5	DC+5V	-	XJ19: Customer side display
2	GND	-	
3, 4	LCD control signal	↔	XJ20: Operator side display

Table 3-12. XJ19, 20

No.	Signal Name	Direction	Opposite Side
1-4, 8	A/D board control signal	↔	A/D board PS-067*
5, 9	GND	-	
6	DC+5V	-	
7, 11	Not connected		
10	DC+12V for A/D board	-	

Table 3-13. XJ21

No.	Signal Name	Direction	Opposite Side
1	Battery+	-	Jumper
2	Backup power	-	
3	Not connected		

Table 3-14. XJ22

No.	Signal Name	Direction	Opposite Side
1	Vbus	-	USB memory
2	D-	↔	
3	D+	↔	
4	GND	-	

Table 3-15. XJ25

3.3.2 A/D Board PS-067

No.	Signal Name	Direction	Opposite Side
1	Shield		Load Cell
2	- Signal (Blue)	←	
3	+ Signal (Green)	←	
4	- Excitation (White)	→	
5	+ Excitation (Red)	→	

Table 3-16. CN1 Load Cell

No.	Signal Name	Direction	Opposite Side
1, 3, 5, 7, 11	Not connected		Main board PS-990* XJ21
2, 4, 8	A/D board control signal	<-->	
6	DC+5V	-	
9	GND	-	
10	DC+12V	-	

Table 3-17. CN2 Load Cell

3.3.3 Key Board PS-068

No.	Signal Name	Direction	Opposite Side
1-8	Key scanning KS0-KS7	<--	Main board PS-990* XJ18
9-22	Key data KD0-KD13	-->	
23-26	Not connected		

Table 3-18. CN1

No.	Signal Name	Direction	Opposite Side
1-14	Key data KD0-KD13	<--	Membrane key sheet
15, 16	Not connected		

Table 3-19. CN2

No.	Signal Name	Direction	Opposite Side
1-8	Key scanning KS0-KS7	-->	Membrane key sheet

Table 3-20. CN3

3.3.4 LCD Display Board

No.	Signal Name	Direction	Opposite Side
1	DC+5V	-	Main board PS-990* XJ19,20
2	GND	-	
3, 4	LCD control signal	<-->	
5	DC+5V for LED	-	

Table 3-21. LCD Display

3.4 Machine Disassembly

3.4.1 Bench Type



CAUTION Unplug the power cord from the wall outlet before starting the disassembly work.

Top Cover Disassembly Procedure

1. Remove the platter.
2. Carefully turn the scale upside down.

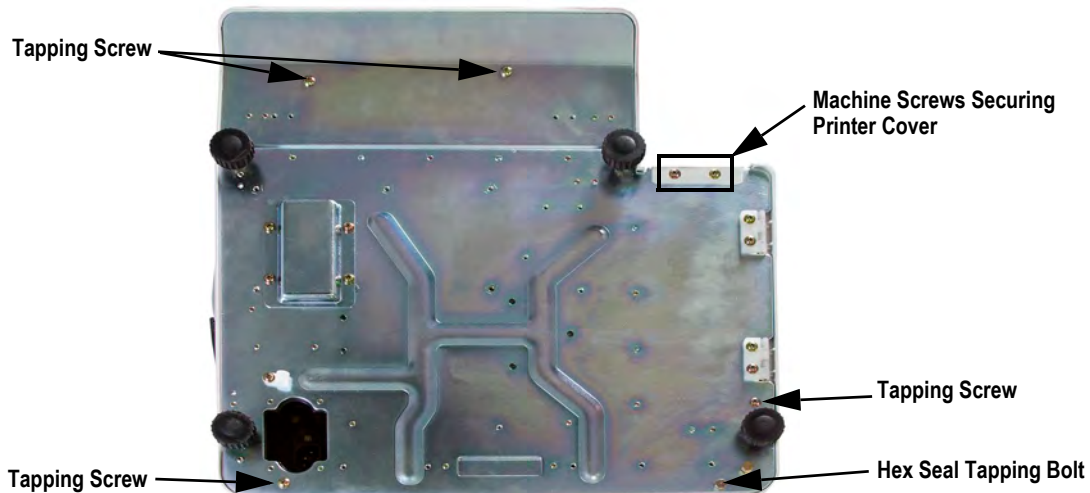


Figure 3-5. Underside of the Scale

3. Remove the following fasteners that secure the top cover:
 - four tapping screws
 - one hex seal tapping bolt (8mm)
4. Remove the two machine screws securing the front printer cover.
5. Carefully turn the scale right side up.
6. Open the right side cover.



Figure 3-6. Right Side Cover

7. Remove the front printer cover.



Figure 3-7. Remove Front Printer Cover

8. Carefully pull the top cover up just enough to unplug the keyboard connector cable and the customer side display cable (bench models only).



Figure 3-8. Unplug Cables from Top Cover

9. Once unplugged, remove the top cover.



Note Reverse this procedure for assembly.

Platter Support and Load Cell Disassembly Procedure

1. Remove the two Allen head bolts (5 mm) from the platter support.

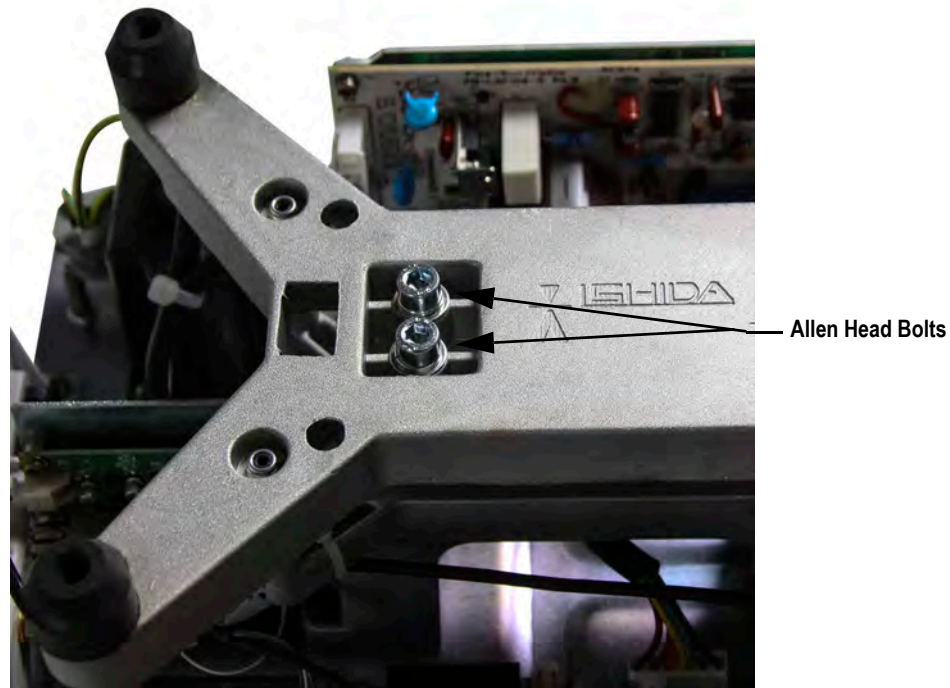


Figure 3-9. Platter Support Disassembly

2. Remove the platter support.
3. Remove the five machine screws securing the printer.

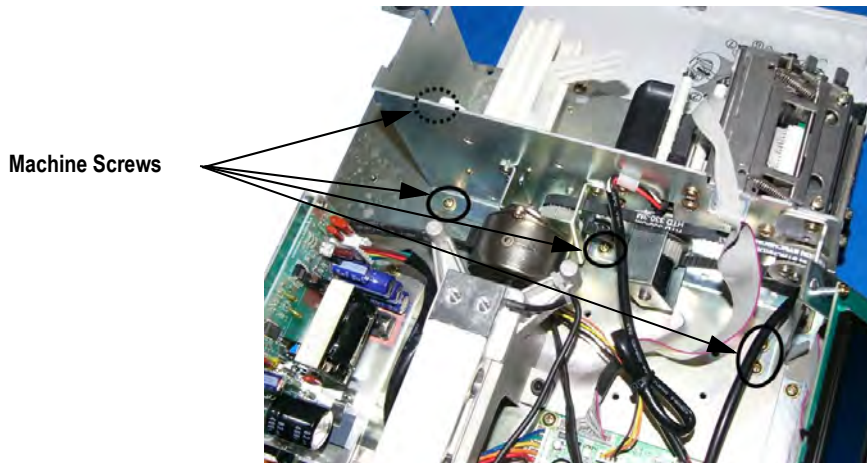


Figure 3-10. Printer Disassembly

4. Remove the peel sensor, label sensor, motor and print-head ribbon cables.
5. Move the printer to the side.

- Remove the five Allen head bolts (4 mm) securing the load cell bracket.

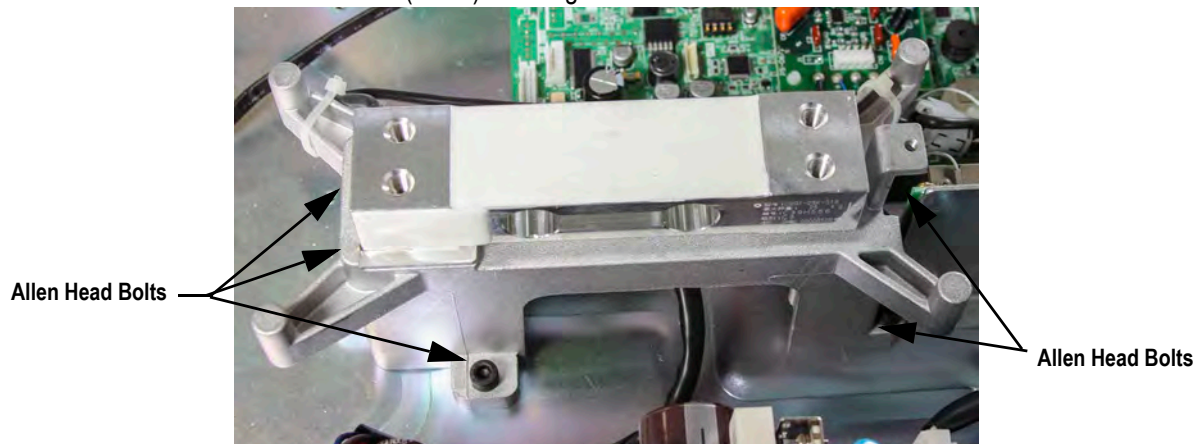


Figure 3-11. Load Cell Bracket Disassembly

- Unsolder the five wires from the A/D board (PS-067).
- Remove the two Allen head bolts (5 mm) and remove the load cell and load cell bracket.
- Carefully turn over the load cell bracket and remove the two Allen head bolts (5 mm).
- Detach the load cell.



Note Reverse this procedure for assembly.

Thermal Head Disassembly Procedure

- Open the side panel and remove the front cover (two screws, bottom side).
- Remove the two screws securing the thermal head.

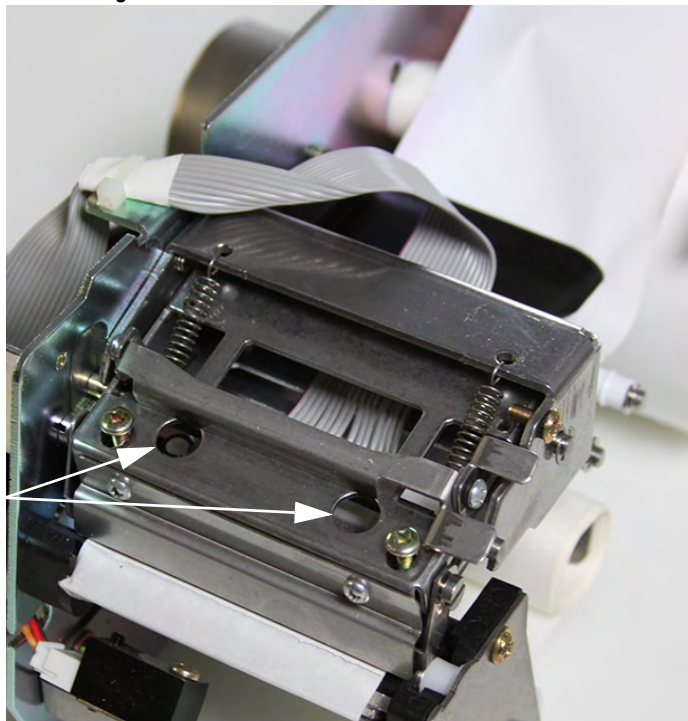


Figure 3-12. Remove Two Screws from Thermal Head

- Unlatch and raise the thermal head bracket.



Figure 3-13. Unlatch Thermal Head Bracket

- Pull the thermal head forward and unplug the connector.



Note

Reverse this procedure for assembly.

Test the thermal head alignment by printing a checker pattern (step C07-01-01 TEST PRINT), see Section 5.6 on page 61. Loosen the two machine screws and adjust the mounting position as needed.

Main CPU Board Replacement Procedure

- Unplug all of the cables and the A/D board from the main CPU board.

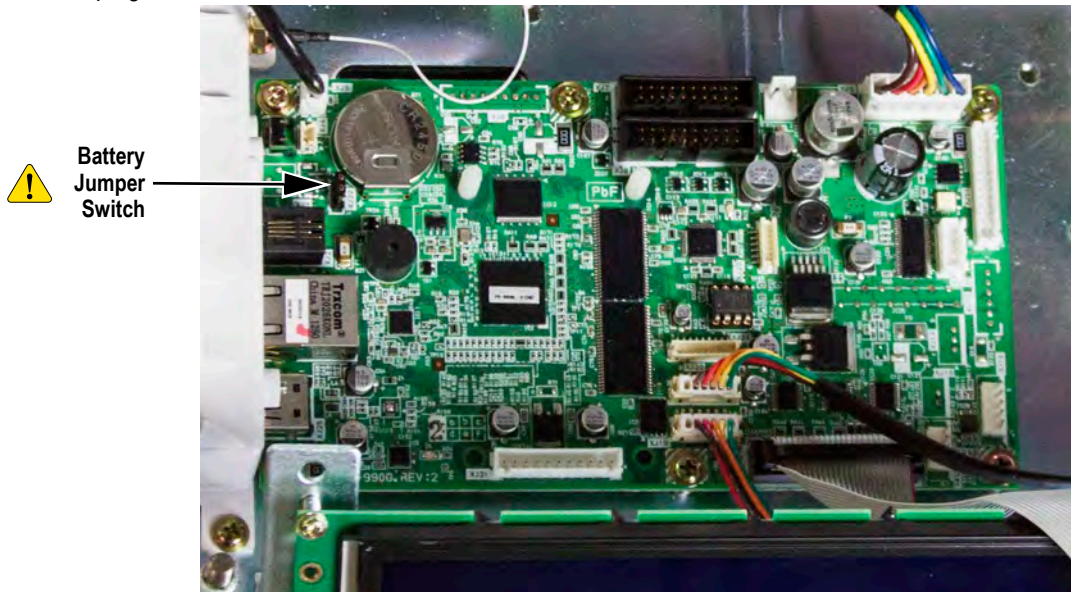


Figure 3-14. Main Board Disassembly

- Remove the six screws; three on each long side of the main CPU board.
- Remove the main CPU board.



Note

Reverse this procedure for assembly.

IMPORTANT

Replacement CPU boards are shipped with the battery jumper switch set in the OFF position. Be sure to move the jumper to the ON position after installation.

Check the firmware version installed on the replacement CPU board and update as needed. See Section 5.4 on page 60 (C05-Firmware Details) and Section 5.8.1 on page 64 (Firmware Loading Procedure).

Operator Display Board Disassembly Procedure

1. Remove the top cover.
2. Unplug the customer display from the main CPU board.

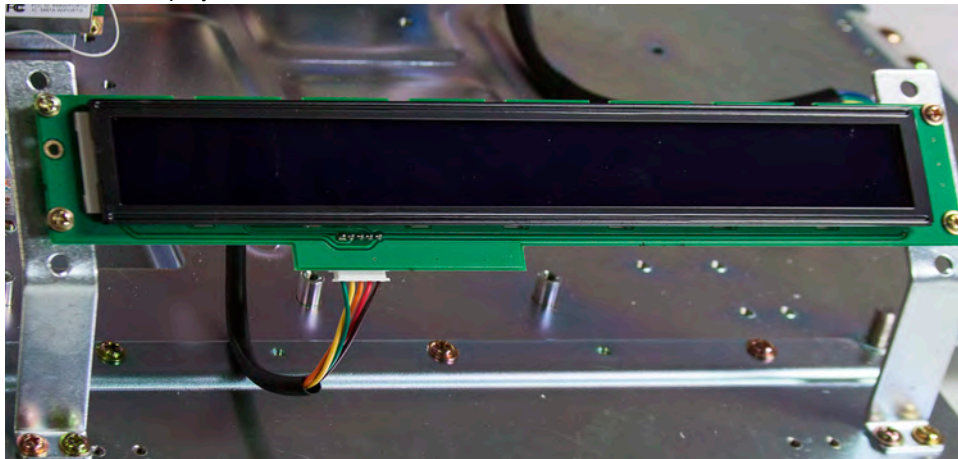


Figure 3-15. Operator Display Board Disassembly

3. Remove the four machine screws.



Note Reverse this procedure for assembly.

Customer Side Display Board Disassembly Procedure (Bench Models Only)

1. Remove the top cover.
2. Release the five tabs.



Figure 3-16. Customer Side Display Board Disassembly

3. Remove the three self tapping screws.



Figure 3-17. Remove the Three Screws



Note Reverse this procedure for assembly.

Keypad Disassembly Procedure

Connect and confirm operation of the new membrane keyboard before removing the current membrane keyboard. If the new keyboard produces the same results as the current keyboard, check the other connections, etc. Once the original keyboard is removed, it cannot be reused.

1. Unplug the two flexible cables from the keypad board.

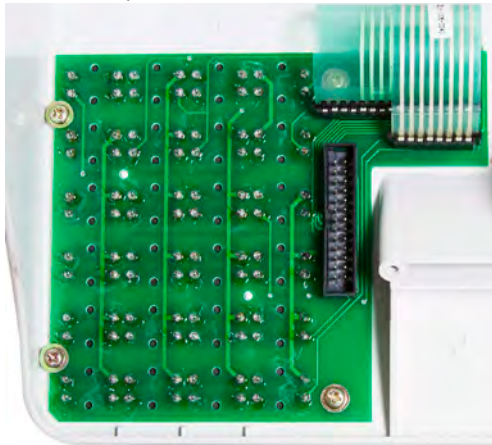


Figure 3-18. Keypad Disassembly

2. Remove the four screws.
3. Remove the keypad board.
4. Peel off membrane keypad.

IMPORTANT

Remove all adhesive from the plastic case before applying the new membrane keypad. An uneven surface will lead to premature failure.



Note *Reverse this procedure for assembly.*

Power Supply Disassembly Procedure

1. Remove the two screws.

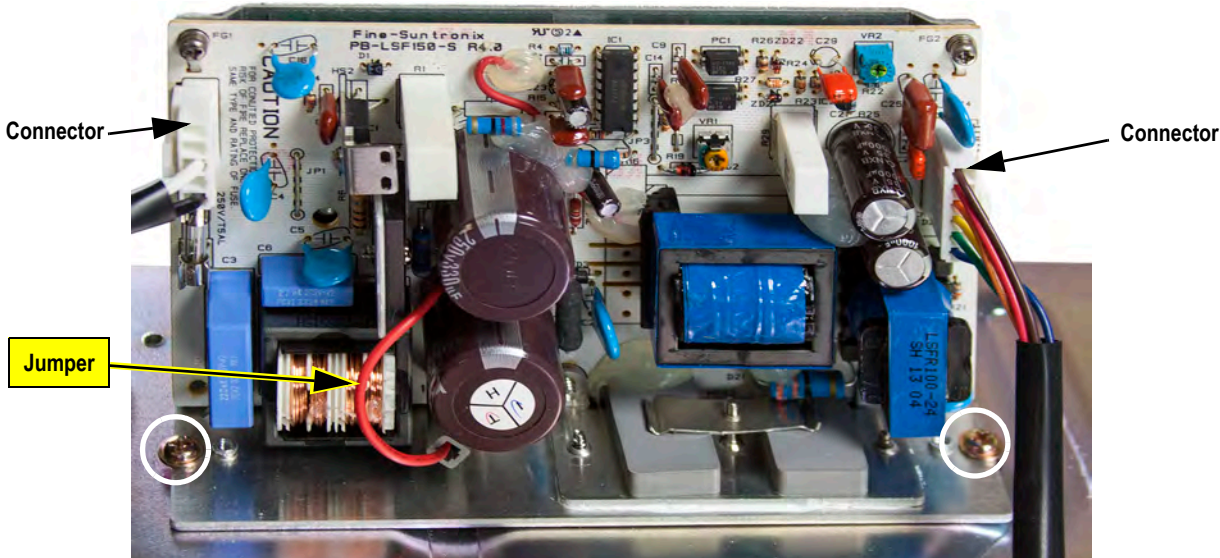


Figure 3-19. Power Supply Disassembly

2. Unplug the two connectors from the power supply.
3. Remove the power supply.



CAUTION When installing a new power supply, be sure the input voltage jumper is set correctly for 110V or 220V. The power supply will be damaged or not operate if the jumper is set incorrectly.



Note Reverse this procedure for assembly.

Label Gap Sensor Disassembly and Replacement Procedure

1. Remove the top cover of the Astra II (see [Section 3.4.1 on page 28](#) Top Cover Disassembly Procedure)
2. Unplug the label sensor wire from the **XJ16** connection on the CPU board.
3. Remove cable clamp holding the sensor wire to the side wall inside of the unit. Retain for reinstallation.
4. Carefully cut the wire tie securing the excess wire.

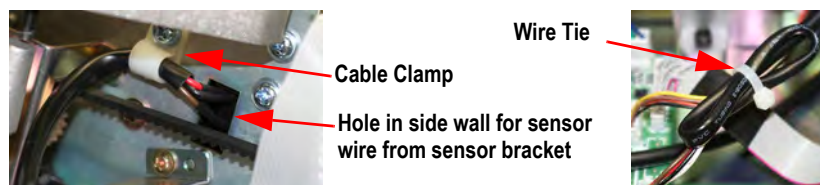


Figure 3-20. Cable Clip and Wire Tie

5. Loosen the screws supporting the sensor support bracket, on the inside of the side wall.
6. Remove the sensor support bracket, pulling the wire through the hole in the side wall.

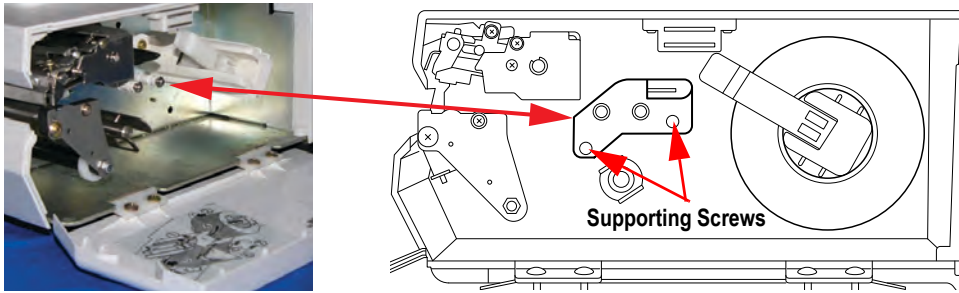


Figure 3-21. Remove Sensor Support Bracket

7. Using a small flat head screwdriver, gently nudge the sensor support tabs out of the sensor support bracket.



Figure 3-22. Support Tabs

8. Pull the label sensor assembly from the support bracket and discard.



Figure 3-23. Insert Sensor Assembly

9. Insert the sensor end of the new sensor wire into the support bracket.
10. Gently push the sensor support tabs back into the support bracket.
11. Ensure the sensors are all the way in and the sensor wire is secure.



Figure 3-24. Assembly Complete

12. Thread the end of the wire into the hole in the side wall (see [Figure 3-20 on page 35](#)).
13. Align the sensor bracket to the holes in the side wall.
14. Secure the sensor bracket using the original screws.
15. Secure the sensor wire to the side wall using the clip retained in [Step 3](#).
16. Plug the sensor into connection **XJ16** on CPU board.
17. Gather excess wire and use a wire tie to bind it together.
18. Reassemble the Astra II (see [Section 3.4.1 on page 28](#) Top Cover Disassembly Procedure).

3.4.2 Pole Type



CAUTION Make sure to unplug the power cord from the wall outlet before starting the disassembly work.

Pole Unit

1. Remove the platter.
2. Carefully tip the scale on its side to access the base of the pole at the bottom of the scale.

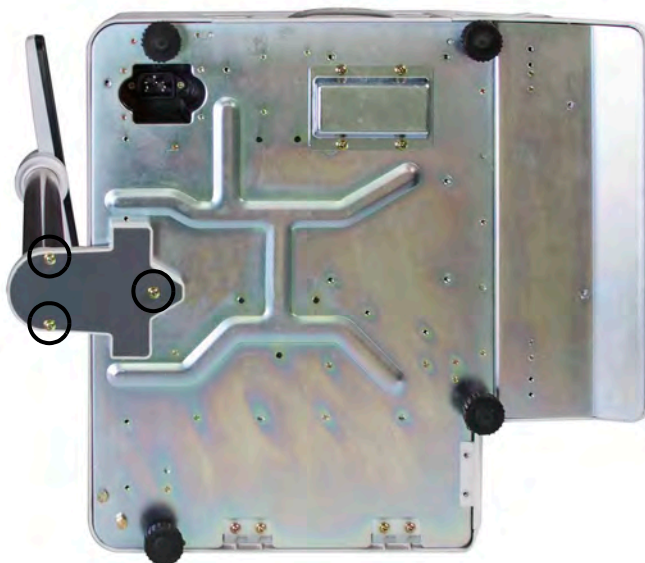


Figure 3-25. Pole Disassembly

3. Remove the three screws from the base of the pole.
4. Detach the pole base plate.



Figure 3-26. Detach the Pole Base Plate

5. Unplug the connector.
6. Remove the three screws and detach the pole unit.
7. Insert a flathead screwdriver into the slit at the base of the display enclosure.

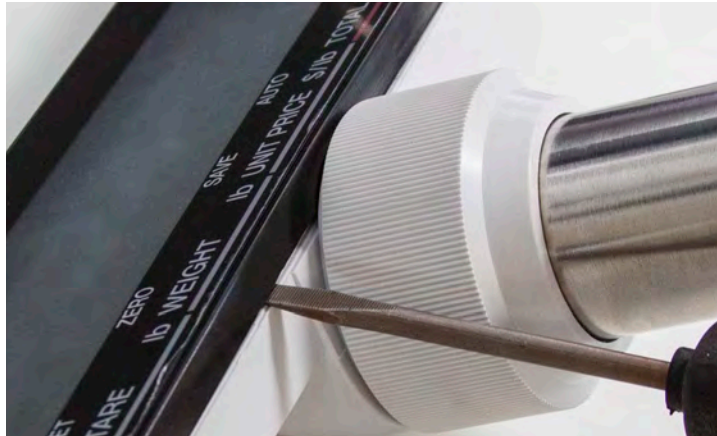


Figure 3-27. Detach the Front Cover of the Customer Display

8. Detach the front cover of the customer display.
9. Remove the four screws and unplug the connector in order to detach the display board.



Figure 3-28. Detach the Display Board



Note Reverse this procedure for assembly.

4.0 Setup Mode

Enter **6000** and press the **Mode** key to enter the Setup mode menu. To exit the Setup mode, press the **Mode** key.

Some Setup mode parameters are restricted to authorized service personnel. Enter the service password **495344** and press **PLU** to access all of the Setup mode parameters. All Setup mode parameters are available until the scale returns to normal operation mode.



Note *The default password 6000 can be changed in the Setup menu step B31-Mode Access Code (Section 4.18 on page 58).*

The Setup Mode for this device includes the following parameters:

- B01 - Machine No. (Comms)
- B02 - Sales Mode
- B03 - Password
- B05 - Data Storage
- B07 - PLU Overwrite
- B08 - PLU Initial Data
- B11 - Cassette*
- B12 - Label Spec.*
- B13 - Label Format*
- B14 - Barcode*
- B17 - Operation Setting*
- B18 - Error Process*
- B20 - Traceability*
- B22 - Price Rounding*
- B23 - Frequent Shopper*
- B26 - Country*
- B27 - File Save/Load*
- B31 - Mode Code*

*Full access to these steps require the service password.

Use the **Up** and **Down** arrow keys to select a parameter within the Setup menu. Press the **Enter** key to enter the parameter. Use the **Up** and **Down** arrow keys to move through the menu options. Use the **Left** and **Right** arrow keys (or key in the corresponding number) to select the appropriate choice.

Example:

1. Enter **6000** and press the **Mode** key to enter the main menu in the Setup mode.

```
( 000 SETUP )
```

2. Press the **Down Arrow** three times to scroll to **B03 PASSWORD**.

```
003 PASSWORD
```

3. Press **Enter**. **B03-01 PSWD** displays.

```
003-01 PSWD 000000 }ZR
```

4. Key in a 6-digit password and then press the **Zero** key to save the password.

*Example: Key in 001234 and then press the **Zero** key.*

```
003-01 PSWD 00 001234
```

```
003-01 PSWD ----- }ZR
```



Note *To change the password key in a new 6-digit number and press the **Zero** key to save.*

5. Press the **Down Arrow** to scroll through menu steps that can be password protected. See [Section 4.3 on page 41](#).
6. Press the **Mode** key three times to resume operation.

4.1 B01-Machine Number

Configure Ethernet communication settings. If any changes are made in the Machine Number menu, the scale will prompt to reboot when the **Mode** key is pressed. At message number 14034-0000, press **Enter** to save and exit or press **CLR** to quit. At message number 15029-0001 power off the scale.

Parameter	Display	Description	Choices
B01-02 IP ADDR	B01-02-01 IP ADDRESS	Enter the IP address of the scale. Enter the full 12-digit number including leading zeros. Do not enter decimal points.	*** **.* **.* **.*
	B01-02-02 SUBNET MASK	Enter the subnet mask of the scale. Enter the full 12-digit number including leading zeros. Do not enter decimal points.	*** **.* **.* **.*
	B01-03-08 PING TO PC	Press the Zero key to execute the PING in order to test the connection to the PC. The ping target is the address entered in step B01-03-01. A long beep = success. Five short beeps = failure.	--
B01-03 PC COM	B01-03-01 PC IP ADDRESS	Enter the target address when executing a PING. Enter the full 12-digit number including leading zeros. Do not enter decimal points.	*** **.* **.* **.*
	B01-03-02 PORT NO	PC port number used for communication. Do not change.	8071
	B01-03-03 COM CHK	Automatic communication (ping) check interval (seconds). 600 Recommended.	30-9999 (0)
	B01-03-04 TIME OUT	COM check time out (seconds). Do not change.	2
	B01-03-05 FTP USER	Enter user name for FTP transmission. Press Edit and enter character string edit.	--
	B01-03-06 FTP PASS	Enter password (more than 8 characters) for FTP transmission. Press Edit and enter character string - number and letters, no special characters.	--
	B01-03-08 PING TO PC	Press the Zero key to execute the PING in order to test the connection to the PC. The ping target is the address entered in step B01-03-01. A long beep = success. Five short beeps = failure.	--

Table 4-1. B01 Machine Number Parameters

4.2 B02-Sales Mode

Specify how the scale will operate and labels are printed.

Parameter	Display	Description	Choices
B02-01 SALES MODE	B02-01 SALES MODE	Fixed at 1.	1: NO OPERATOR Issue labels using the Print key.

Table 4-2. B02 Sales Mode Parameters

4.3 B03-Password

Set a password and specify which open menu steps are protected. It is strongly recommended all setup menu items (40xx) be protected.

Parameter	Display	Description	Choices
B03-01 PSWD	B03-01 PSWD 000000	Specify the password that will be used for all the items listed in Table 4-4 . Enter a password then press the Zero key. If it is less than 6-digits, enter leading zeros. <i>Example: 001234.</i>	--

Table 4-3. B03 Password Parameters

Use the up and down arrow keys to select a menu step in which the password set in B03-01 is used. Press **1** to require a password or **2** when a password is not required and then press the **Enter** key.



Note Some menus are not displayed depending on the scale configuration.

1002	TTL ADJ (S06)	3001	PLU (P01)	3008	XTRA MSG1 (P11)	4002	M/C No. (B01)
		3002	CAMPAIGN (P02)	3009	XTRA MSG2 (P12)	4001	SLS MODE (B02)
2001	SLS D TTL	3004	PRST KEY (P04)	3010	XTRA MSG3 (P13)	4003	PASSWORD (B03)
2002	SLS W TTL	3005	AD MSG. (P05)	3018	LukUP TBL (P19)	4005	DATA STOR. (B05)
2003	SLS C TTL	3003	STORE (P06)	3035	F/P SYM (P21)	4006	PLU OVR (B07)
2005	P D TTL (F05)	3012	DEPT. (P07)	3015	CHK LBL (P37)	4007	PLU IDATA (B08)
2006	P W TTL (F06)	3013	GROUP (P08)	3041	PRICE CHNG (P40)		
2007	P C TTL (F07)	3019	COOK TIME (P09)			5001	DATE TIME (C01)
2010	TTL CLR (F12)	3007	NUTRITION (P10)			5003	DISP.CHK (C03)
						5005	FIRM DETL (C05)

Table 4-4. B03 Password Menu Options

4.4 B05-Data Storage

Configure settings to store total data.

Parameter	Display	Description	Choices
B05-01 TOTAL ADD.	B05-01-01 DAILY TOTAL	Select if the Daily Total accumulator is enabled.	1: NON ADD 2: ADD
	B05-01-02 WEEKLY TOTAL	Select if the Weekly Total accumulator is enabled.	
	B05-01-03 CUM. TOTAL	Select if the Cumulative Total accumulator is enabled.	
	B05-01-04 TIME TOTAL	Select if the Hourly Total accumulator is enabled.	
	B05-01-05 OPER. TOTAL	Not supported.	
	B05-01-09 CR PRO. TOTAL	Not supported.	
	B05-01-10 REWRAP TOTAL	Select if the Rewrap Total accumulator is enabled.	
	B05-01-11 POS Fn TOTAL	Not supported.	
B05-02 TOTAL PROC.	B05-02-01 FIX PRICE	Select whether to add the fixed weight value or the actual weight.	1: Fix Weight 2: Real Weight
	B05-02-02 ITEM COUNT	Select whether to add the number of items as one item per label, or add the quantity as the number of items.	1: Multiply 2: Details
	B05-02-05 SUM RECEIPT	Not supported.	1: No 2: Yes

Table 4-5. B05 Data Storage Parameters



Note The service password 495344 is required to access B05-02.

4.5 B07-PLU Overwrite

Specify how temporary changes made by the operator are processed. A selection of “Yes” will overwrite the original setting in the PLU.

Parameter	Display	Description	Choices
B07 PLU OVERWRITE	B07-01 UNIT PRICE:F/P	Select if a price change is saved.	1: YES 2: NO
	B07-02 MD MODE:AMT	Select if a markdown is saved.	
	B07-03 UNIT TYPE:QTY	Select if a change of the number of pieces is saved.	
	B07-04 FIXED WEIGHT	Select if a change of fixed bakery weight is saved.	
	B07-05 PACK DATE/TIME	Select if a pack date or pack time change is saved.	
	B07-06 SELL BY D/T	Select if a sell by date or sell by time change is saved.	
	B07-08 TARE	Select if a tare weight change is saved.	
	B07-09 — B07-11 EXTRA MSG. 1-3	Select if a different extra message is linked to the PLU.	
	B07-13 COUPON MSG.	Not supported.	
	B07-14 POP MSG.	Not supported.	
	B07-15 — B07-29 FREE MSG. 1-15	Not supported.	
	B07-30 — B07-32 IMAGE 1-3	Select if a different logo image is linked to the PLU.	
	B07-34 SH. IMAGE FLAG	Select if a change to the safe handling image print status is saved.	
	B07-35 1st LBL FMT No.	Not supported.	
	B07-36 2nd LBL FMT No.	Not supported.	
	B07-38 TARGET	Select if a different target value is assigned to the PLU.	
B07-43 USE BY DATE	Select if a use by date change is saved.		

Table 4-6. B07 PLU Overwrite Parameters

4.6 B08-PLU Initial Data

Specify the default values for any new PLU. When a new PLU is programmed at the scale, the initial data automatically populates the fields. This speeds up PLU programming by setting the customer's standard values. The initial data values can be changed as needed during PLU programming.

Parameter	Display	Description	Choices	
P01-01 SALE1 (The steps displayed in this section change based on the Sales Mode)	P01-01-01 SALES	Enter the mode number to select the desired sales mode. Press Enter .	0: WEIGHT 1: FIX PRICE 2: WGT+F.P.	
	P01-01-02 MD MODE	Enter the mode number to select the desired markdown mode. Press Enter .	0: NORMAL 1: SPECIAL 2: -\$ 3: -% 4: SPEC. U/P 5: U/P -\$ 6: U/P -%	
	P01-01-03 OPEN PRICE	Enter the mode number to select whether or not to allow the operator to change the price. Press Enter .	0: YES 1: NO	
	P01-01-04 PRICE	Enter the unit or fixed price. Press Enter .	0.00 - 999.99	
	P01-01-05 MARKDOWN AMOUNT	Enter the markdown amount. Press Enter . Not available when B08-01-02 Markdown Mode is set to 0:NORMAL.	0.0 - 99.9 (%) 0.00 - 999.99 (\$)	
	P01-01-06 QUANTITY	Enter the quantity. Press Enter . Only available when B08-01-01 Sales Mode is set to 1: Fix Price or 2: WGT F/PRI.	0 - 999	
	P01-01-07 UNIT TYPE	Select the unit type to be used in the Pieces statement. Press Enter . Only available when B08-01-01 Sales Mode is set to 1: Fix Price or 2: WGT F/PRI.	0 - 16	
	P01-01-09 FIXED WEIGHT	Enter a bakery weight in ounces. Press Enter . Only available when B08-01-01 Sales Mode is set to 1: Fix Price.	0 - 999	
	P01-01-10 TARE	Enter tare weight. Press Enter .	0.00 - 9.99 (lb)	
	P01-01-12 P TARE	Enter a percent tare. Press Enter . Only available when B08-01-01 Sales Mode is set to 0: NORMAL or 2: WGT F/PRI.	0.0 - 50.0	
	P01-01-13 FORCED TARE	Enter the mode number to select whether or not a tare weight is required to print a label. Press Enter .	1: YES 2: NO	
	P01-01-14 LO WGT	Enter the lower weight limit. Press Enter .	0.00 - 30.00 (lb)	
	P01-01-15 UP WGT	Enter the upper weight limit. Press Enter .	0.00 - 30.00 (lb)	
	P01-02 SALE2	P01-02-06 POINT FLAG	Not supported.	--
		P01-02-07 POINT TYPE	Not supported.	--
P01-02-08 POINTS		Not supported.	--	
P01-03 MSG. (Link nutrition data or text messages to the PLU)	P01-03-01 NUT.	Enter the nutrition message number. Press Enter . Nutrition facts are programmed in the Program menu step P10 Nutrition.	0 - 999999	
	P01-03-02 — P01-03-04 MSSG1-3	Enter the extra message number. Press Enter . Extra messages are programmed in the Program menu steps P11, P12 and P13 Extra Messages.	0 - 999999	
	P01-03-07 COOK	Enter the cooking time message. Press Enter . Cooking time is programmed in the Program menu step P09 Cook Time.	0 - 9999	

Table 4-7. B08 PLU Initial Data Parameters

Parameter	Display	Description	Choices
P01-04 IMAGE (Link or enable image printing for the PLU)	P01-04-01 — P01-04-03 IMAGE 1-3	Enter the number of the logo image that will print on the label. Press Enter . The label format must be configured to support variable images.	0 - 999
	P01-04-05 S H IMG	Leave at 0. The SH image is specified in the label format.	0
	P01-04-06 S H IMG PRN	Enter the mode number to select whether or not to print the Safe Handling Image. Press Enter .	1: NO PRINT 2: PRINT
P01-06 DATE (Configure date and time printing for the PLU)	P01-06-01 P/D PRN	Enter the mode number to select whether or not to print the pack date. Press Enter .	1: YES 2: NO
	P01-06-02 PK TIME PRN	Enter the mode number to select the desired pack time printing method. Press Enter . 1: Designate a specific time 2: Print the scale's current programmed time	0: NO PRINT 1: DESIGNATE 2: CLOCK
	P01-06-03 PK TIME DATA	Enter the time in a 24-hour format (HHMM). Press Enter . This step is only available if step P01-06-02 is set as 1: DESIGNATE.	00:00-23:59
	P01-06-04 SB DATE PRN	Enter the mode number to select whether or not to print the sell by date. Press Enter .	1: YES 2: NO
	P01-06-05 SB TIME PRN	Enter the mode number to select the desired sell by time printing method. Press Enter . 1: Designate a specific time 2: Add the minutes set in step P01-06-06 to the scale's current programmed time.	0: NO PRINT 1: DESIGNATE 2: RELATIVE
	P01-06-06 SB TIME	Enter the designated sell by time or number of minutes and press Enter . Data format is based on P01-06-05 Sell By Time Print setting.	00:00-23:59 (Designate) 0-1439 (Relative [min])
	P01-06-07 SHELF LF	Enter the number of days for the shelf life. Press Enter .	0 - 9999 (1)
	P01-06-08 DATE PRN (USE BY)	Enter the mode number to select whether or not to print the use by date. Press Enter .	1: YES 2: NO
	P01-06-09 DATE DATA (USE BY)	Enter the number of days for the use by period. Press Enter . Availability is based on P01-06-08 Use by Date Print setting.	0 - 9999
P01-07 CODE (Set the barcode and other track- ing data)	P01-07-01 CODE	Enter an item code. Press Enter .	0 - 99999999
	P01-07-02 REGI.CODE	Enter the register code. Press Enter . Not supported in the USA	0 - 9999
	P01-07-04 BAR CODE	Enter a barcode number. Press Enter . Do not enter more than 10 digits.	0 - 9999999999
	P01-07-08 TRACE EN	Enter the mode number to select whether or not to enable traceability data. Press Enter .	1: YES 2: NO
	P01-07-10 DEPT	Enter desired department number. Press Enter .	0 - 9 (0)
	P01-07-11 GROUP NO	Enter desired group number. Press Enter .	0 - 99 (00)
	P01-07-12 FMI AI	--	0 - 19 (0)
	P01-07-13 FMI NoAI	--	0 - 21 (0)
P01-08 LINK	P01-08-01 PLU.NO.	Not supported.	--

Table 4-7. B08 PLU Initial Data Parameters (Continued)

4.7 B11-Cassette

Configure the label cassette settings for the default label format, label type, printing mode, etc. The service password **495344** is required to access this feature.

Display	Description	Choices
B11-01 CAST. No.	Fixed at 01.	01
B11-02 PRINTER	Printer to be configured. Fixed at 1.	1
B11-03 PLU No.	Select a PLU number for test printing. Currently not available.	0-99999999
B11-04 FMT No.	Set the default label format number assigned to the cassette. Default label formats: 1. 44 mm standard UPC (PN 47732) 2. 47 mm standard UPC (PN 47733) 3. 85 mm safe handling (PN 47745) 4. 59 mm safe handling (PN 47736) 5. 37 mm non-UPC (PN 47762) 6. 59 mm extended text (PN 47735) 7. 85 mm extended text (PN 47743) 8. 85 mm reduced safe handling (PN 47745)	001-999
B11-06 RESERVE	Not used.	--
B11-07 PEEL MODE	Select the label printing style. 0: Labels print and peel one at a time with the backing paper wound on the take up spool 1: Labels print and remain on the backing paper	0: IND. LBL 1: W/BACKN
B11-09 LBL TYPE	Select the type label. 0: Die-cut labels 1: Continuous strip label. If continuous strip is selected, set steps B11-17 to B11-20 as 1:Variable	0: DIE-CUT 1: CONTI
B11-10 STOR PRN	Select store name and address printing. 0: Do not print 1: Print	0: DISABLE 1: ENABLE
B11-11 TITL PRN	Select if the titles that identify the numeric values print. 0: Do not print 1: Print	0: DISABLE 1: ENABLE
B11-12 OVR FLG	Select the response if the PLU description is too large. 1: Do not print the description and display an error 2: Print as much of the description as possible and ignore the rest	0: ERRBLNK 1: TO MAX
B11-13 RESERVE	Not used.	--
B11-14 SUBT FMT	Set the default subtotal label format number.	000-999
B11-15 RESERVE	Not used.	--
B11-16 RESERVE	Not used.	--
B11-17 PLU NAME	Select if the PLU description height can be changed when B11-09 is set as continuous. This step is only accessible if the Label Type step B11-09 is set as 1:Continuous. 0: Fixed height 1: Expand the height as needed	0: FIXED 1: VARIABL
B11-18-B11—20 Extra Message 1-3	Select if the extra message height can change when B11-09 is set as continuous. these steps are only accessible if the Label Type step B11-09 is set as 1:Continuous 0: Fixed height 1: Expand height as needed	0: FIXED 1: VARIABL
B11-21 RESERVE	Not used.	--

Table 4-8. B11 Cassette Parameters

4.8 B12-Label Specifications

Create and configure a Label Specification for any special label parameters such as print direction, print speed, etc. The Label Specification is linked to the Cassette in step B11-05. The service password **495344** is required to access this feature.

Display	Description	Choices
B12-01 LABEL No.	Fixed at 01.	01-99
B12-02 LABEL TYPE	Select the Label Paper type. NOTE: 130LA is the USA standard, there should be no reason to change the default.	1: 130LA-1 3: 150LA-1
B12-03 BACK FEED	Select if backfeed is enabled. This allows variable data (other than the store name) to print at the bottom of the label.	0: NO 1: YES
B12-04 SENSOR TYPE	Select label sensor control.	0: NO USE 1: LABEL
B12-05 PRN DIRECTION	Set print direction. 0: Label prints in normal direction, bottom first 1: Label prints upside down, top first	0: STANDARD 1: REVERSE
B12-06 FEED LEN.	Set the feed length. The decimal point is not required.	0.0-999.9 (7.5)
B12-08 FORMAT No.	Select a label format for test printing.	001-999 (001)
B12-09 PLU No.	Select a PLU number for test printing.	0-99999999
B12-10 LABEL WID.	View the width of the label set in step B12-08.	--
B12-11 LABEL LEN.	View the length of the label set in step B12-08.	--
B12-12 LABEL GAP	Enter the length of the gap between the labels in millimeters. The decimal point is not required.	0.0-99.9 (2.5)
B12-13 SENS DIST.	Set the sensor distance in millimeters to adjust the label stop position at the peel bar. This will also adjust the printing on the label. Increase the value to stop the label farther out and raise the printing up. The decimal point is not required.	0.0-999.9 (71.0)
B12-14 PRINT DEN.	Set the darkness of the thermal print from 0 (lightest) to 9 (darkest).	0-9 (5)
B12-15 PEEL SENSOR	Select if the peel sensor is enabled. During normal operation this setting is unnecessary. If the sensor is faulty, however, it may be disabled until repairs are made.	0: Use 1: No Use

Table 4-9. B12 Label Specifications Parameters

4.9 B13-Label Format

Custom label formats are created using PC software (SLP-5 Lite) and downloaded to the scale. It is possible, but not recommended, to edit the label formats at the scale. The print fields may be moved as needed in Section B13-02. Refer to [Section 9.4 on page 90](#) Label Format Worksheets, for the default X-Axis and Y-Axis coordinates. The service password **495344** is required to access this feature.

Parameter	Display	Description	Choices
B13-01 BASIC	B13-01-01 FORMAT	Select a label format for editing. Press the PLU key. Press Zero after calling the label format to: - reset a default label format 1-8 to initial values - delete a custom label format	1-999 (1)
	B13-01-02 WIDTH	Set the width of the label format in tenths of a millimeter. <i>Example: Enter 560 for a width of 56.0 mm.</i>	300-560
	B13-01-03 HEIGHT	Set the length of the label format in tenths of a millimeter. <i>Example: Enter 440 for a length of 44.0 mm.</i>	300-2000 (440)
	B13-01-04 PLU	Select a PLU number for test printing.	0-999999 (1)
B13-02 UNIT	B13-02-01 UNIT NO.	Select a unit (print field) for editing. Press the PLU key.	--
	B13-02-02 X-AXIS	Set the X-axis (right-left) position of the unit in tenths of a millimeter. A value of 0 is the left edge of the label.	0-560
	B13-02-03 Y-AXIS	Set the Y-axis (up-down) position of the unit in tenths of a millimeter. A value of 0 is the bottom edge of the label.	0-2000 (440)

Table 4-10. B13 Label Format Parameters

4.10 B14-Barcode

Specify the default barcode setting to match the customer's POS system. The service password **495344** is required to access this feature.

Parameter	Display	Description	Choices
B14-01 POS FLAG	B14-01-01 EAN/UPC-13	Set the flag value printed at the beginning of the EAN/UPC-13 barcode.	00-99 (02)
	B14-01-02 EAN/UPC-8	Set the flag value printed at the beginning of the EAN/UPC-8 barcode.	0-9 (2)
	B14-01-03 10-DIG.-13	Set the flag value printed at the beginning of the 10 Digit 13 barcode.	00-99
	B14-01-04 5-DIG.-8	Set the flag value printed at the beginning of the 5 Digit 8 barcode.	00-99
	B14-01-05 SUBT POS	Set the flag value printed at the beginning of the subtotal barcode.	00-99 (02)
B14-02 POS CODE	B14-02-01 TYPE	Specify the default barcode format	1: EAN/UPC 13 2: EAN/UPC 8 3: 10 DIGITS 13 4: 5 DIGITS 8 5: GS1 6: GS1 ST 7: GS1 STO 8: GS1 LIMITED 9: GS1 EXPANDED 10: ITF 11: CODE 128 12: EAN 128
	B14-02-02 OCR	Specify the format of the human-readable (OCR) numbers printed under the barcode. The bars and spaces in the barcode are not affected. 1: EAN13 - print all 13 digits in the standard UPC barcode 2: UPC12 - print 12 digits in the standard UPC barcode excluding the leading flag digit.	1: EAN 13 2: UPC 12
	B14-02-03 FMT AI	Specify the barcode format when using GS1 expanded. GTN: GS1 P: Price W: Weight SB: Sell by Date P8: 8-digit Price G: Gross Weight GTNPOS: GS1 (POS) NOTE: An extra 0 is added at the front of the standard EAN13 barcode for a total of 14 digits. (GNTPOS: GS1 (POS) only)	1: GTN+P+W 2: GTN+P+W+SB 3: GTN+W+P 4: GTN+W+SB+P 5: GTN+P 6: GTN+W 7: GTN+W+SB 8: GTN+P+SB 9: GTN+P8 10: GTN+W+P8+SB 11: GTN+P+W+G+SB 12: GTNPOS 13: GTNPOS+SB 14: GTNPOS+W+SB 15: GTNPOS+W+G+SB 16: GTNPOS+SB+P 17: GTIN+G+UP 18: GTIN+G 19: GTIN

Table 4-11. B14 Barcode Parameters

Parameter	Display	Description	Choices
B14-02 POS CODE	B14-02-04 FMT NoAI	Specify the barcode format when selecting code 128. C: Product Code D: Day F: Flag M: Month P: Price Q: Quantity of Pieces U: Unit Price W: Weight WQ: Weight or Quantity of Pieces (based on sales mode) Y: Year d: Check Digit 0: Fixed Zero	1: C14 2: C13d 3: F2C5P5WQ5d 4: F1C5P6WQ5d 5: F1C4P7WQ5d 6: C7U7W6 7: C7U700100d 8: F2CRP6W5d 9: F2C6P6W5d 10: F1C6WQ5P5d 11: F2C5U5W5d 12: F2C5U5WQ5d 13: D2M2Y2C6W5D 14: F2C5W5P5d 15: F1C5P6W5d 16: F1C5P6WQ5d 17: D2M2Y2C8W5d 18: C7WQ5P7d 19: C7P8WQ5 20: F2C5P6W4d 21: F2C5U5W40d
	B14-02-05 POS WGT	Specify the default barcode format for weighed items when 1:EAN/UPC 13 is set in step B14-02-01.	1: F2C5pP4d 2: F2C6P4d 3: F1C6pP4d 4: F2C5P5d 5: F1C6P5d 6: F2C4pP5d 7: F2C6W4d 8: F1C6W5d 9: F1C5I6d 10: F2C6P4d 11: F2C6W4d 12: F2C4wW5d 15: F2C50P4d 16: F2C5W5d 17: F2C5P5/10d 18: F2C5pP4/10d 19: F2C5wW4d 20: F1C5P6d 21: F2C4P6d 22: F1C3W4P4d 23: F2C4Q2P4d 24: F1I6P5d 25: F2I6P4d 26: F1C4P7d 27: F1I6P5/10d 28: F2I6P4/10d 29: F1C6P5/10d 30: F2C6P4/10d 31: F2C5Q5d 34: F2S1R3pP5d 35: F2S1C3pP5d 36: F102C4P5d 37: F2C5pP4d 38: F202C3P5d 39: F202C3W5d 40: F2C5P5d 41: F2C4wqWQ5d 43: F2C5WQ5d 44: F1C7WQ4d
	B14-02-06 POS F/P	Specify the default barcode format for fixed price items when 1:EAN/UPC 13 is set in step B14-02-01. C: Product Code F: Flag I: PLU Number O: Operator P: Price Q: Quantity of Pieces R: Receipt Number S: Scale Number W: Weight WQ: Weight or Quantity (based on sales mode) d: Check Digit p: Price Check Digit w: Weight Check Digit wq: Weight or Quantity Check Digit (based on sales mode) 0: Fixed Zero /10: Divide by 10 NOTE: 10: F2C6P4d [FFCCCCC PPPP(c/d)] FF value changes depending on the Price value: 22: Price more than 99999 21: Price more than 9999 20: All other prices 11: F2C6W4d (FFCCCCC WWWW(c/d)) FF value changes depending on the Weight value: 25: Price more than 99999 24: Price more than 9999 23: All other weights	
	B14-02-07 SUBT TYPE	Specify the subtotal barcode type.	1: EAN 13 2: ITF 3: GS1EXP 4: EAN128

Table 4-11. B14 Barcode Parameters (Continued)

Parameter	Display	Description	Choices
B14-02 POS CODE	B14-02-08 SUBT FOMT	Specify the subtotal barcode UPC/EAN 13 format.	1: F2C4pP5d 2: F2C5P5d 3: F2C5pP4d 4: F2C4wW5d 5: F2C5W5d 6: F2C5wW4d
	B14-02-09 SUBT FOMT2	The subtotal barcode ITF format.	1: F2C5P5W5d
	B14-02-10 SUBT PRI/M	Divide the subtotal barcode price by 1/10.	0: NO 1: YES
	B14-02-11 SUBT WGT/M	Divide the subtotal barcode weight by 1/10.	0: NO 1: YES
	B14-02-12 C/D TYPE	Specify the check digit calculation method.	1: EVEN 2: ODD
	B14-02-13 DP POS AI	Specify the decimal point position.	0: 3 Digit 1: 2 Digit 2: 1 Digit
	B14-02-14 SUBT AI FMT	Specify the format of the subtotal AI barcode.	17: GTIN+G+UP 18: GTIN+G 19: GTIN
B14-03 Item Code	B14-03-01 DEPT. No.	Specify which digits in a PLU's 8-digit item code represent the department for totals accumulation. D1: Starting digit from the left D2: Number of digits <i>Example: 31 — 12345678</i>	31
	B14-03-02 GROUP NO.	Specify which digits in a PLU's 8-digit item code represent the group for totals accumulation. D1: Starting digit from the left D2: Number of digits <i>Example: 42 — 12345678</i>	42
	B14-03-03 EAN/UPC-13	Specify which digits in a PLU's 8-digit item code are used as the EAN/UPC-13 barcode number. D1: Starting digit from the left D2: Number of digits <i>Example: 45 — 12345678</i>	45
	B14-03-04 EAN/UPC-8	Specify which digits in a PLU's 8-digit item code are used as the EAN/UPC-8 barcode number. D1: Starting digit from the left D2: Number of digits <i>Example: 42 — 12345678</i>	42

Table 4-11. B14 Barcode Parameters (Continued)

4.11 B17-Operation Setting

Configure the scale's operation. The service password **495344** is required to access this feature.

Parameter	Display	Description	Choices
B17-01 CALL	B17-01-02 OPEN PLU	Allows the label to be printed without calling a PLU. PLU 999999 is used for weighing. PLU 999998 is used for fixed price. Use the Unit Price function key to enter the price for both.	1: YES 2: NO
	B17-01-03 PROMO CNF	Promotion check display.	1: NO 2: YES
	B17-01-05 SEG.PLU	Switch to display product name for a designated time on segment display.	1: NO 2: YES
	B17-01-06 SEG.PLU WGT	Switch to display weight for a designated time on segment display.	1: NO 2: YES
B17-02 PROD.	B17-02-01 WGT RANGE	Weight check.	1: NO 2: YES
	B17-02-03 FIX-P AUTO	Print fixed price item labels when weight is placed on the platter.	1: NO 2: YES
	B17-02-04 FIX RANGE	Check weight of a fixed price item.	1: NO 2: YES
B17-03 TIMER	B17-03-01 REG TMR	Product call maintenance timer (seconds)	0-9999
	B17-03-02 SUBT TMR	Subtotal mode maintenance timer (seconds)	0-9999
	B17-03-03 PRN TMR	Fixed amount auto print interval (seconds)	0-9999
	B17-03-07 SEG.PLU TMR	Timer setting to display the product name on the segment display and also the hold time to display operator overrides such as Logo and Message. (seconds) NOTE: The name will not display if weight is on the platter when a PLU is called. Step B17-01-05 must be set as Yes.	0-9999 (3)
B17-06 INPUT	B17-06-01 INPUT	--	1: TYPE1 2: TYPE2
	B17-06-02 TARE RESET	Tare reset	1: MANUAL 2: AUTO
	B17-06-03 OPE.TYPE	Select the method of choosing menu options. 1: Normal - Enter the number and press the Enter key. 2: Direct - use the left and right arrow keys.	1: NORMAL 2: DIRECT
B17-10 AUTOPLU	B17-10-01 AUTO CALL	Select if a PLU is automatically called without the PLU key. Set the number of PLU digits to enter. Use 8: timer if the number of PLU digits vary or to allow temporary changes.	1: NONE 2: 3 DIGIT 3: 4 DIGIT 4: 5 DIGIT 5: 6 DIGIT 6: 7DIGIT 7: 8 DIGIT 8: TIMER
	B17-10-02 AUTO TMR	If 8:Timer is set in step B17-10-01, set the time in msec to wait before calling the PLU. 1000 equals 1 second.	0-3000 (700)
B17-12 SUB-TOTAL	B17-12-01 PACK RUN TO	Select if the accumulated Run Total is cleared automatically or manually. 1: BUZZER – Subtotal is not cleared even when an item is called during the production under <i>Target Pack Count</i> mode. 2: BUZ+CLR – Subtotal is cleared when the first label printing is completed after an item is called during the <i>Target Pack Count</i> mode.	1: BUZZER 2: BUZ+CLR
	B17-12-02 SUBTOTAL CO	Select how many subtotal labels are issued when the Print key is pressed.	1: 1 2: 2

Table 4-12. B17 Operation Setting Parameters

4.12 B18-Error Process

Configure the scale's response for specific error conditions. The service password **495344** is required to access this feature.

Parameter	Display	Description	Choices
B18-01 ISSUE	B18-01-01 ZERO PRIC	Select the response when the total price is zero. 1: Print zero price in the barcode and do not print the total price 2: Do not print the barcode and the total price prints as "\$0.00" 3: Do not print the barcode or total price.	1: BAR 0 2: NO.BAR 3: NO PRICE
	B18-01-02 ERROR TARE	Select if an error message is displayed when the tare weight is set as zero (error: 0284-0000).	1: NO 2: YES
	B18-01-03 ERR 0 PRICE	Select if an error message is displayed when the total price is zero (error: 0321-0000).	1: NO 2: YES
B18-02 CALL	B18-02-01 NO POS ERR	Select the response when the barcode identifying the product is zero: 1: No error 2: Display an error and do not print the label (error: 0342-0000) 3: Display an error and do not print the barcode (error: 0343-0000)	1: NO DISP 2: NO PRINT 3: NO BAR
	B18-02-02 TARE CANC.E	Not applicable for USA.	0: YES 1: NO
	B18-02-03 – B18-02-05 EX.MSG1 ERR – EX.MSG3 ERR	Select if an error is displayed when the extra message assigned to the PLU does not exist. Extra Message 1 – (error: 0275-0000) Extra Message 2 – (error: 0276-0000) Extra Message 3 – (error: 0277-0000)	1: NO 2: YES
	B18-02-06 CPN MSG ER	Not supported.	--
B18-03 COMMON	B18-03-01 THERMAL ERR	Select the response when the thermal head has a damaged print element (error: 0347-000x): 1: Display an error message that can be cleared 2: Display an error message that cannot be cleared 3: Do not display any error message	1: ONE TIME 2: CONTI 3: NO MESG

Table 4-13. B18 Error Process Parameters

4.13 B20-Traceability

Configure settings for countries that require traceability of products from harvest to consumer purchase. This is not yet required in the USA. The service password **495344** is required to access this feature.

Display	Description	Choices
B20-01 TRCB TYPE	Selection of traceability. When in use, use "99" for skim number. Specify data in code tab of PLU master.	1: TYPE 1 2: TYPE 2
B20-02 TRCB TOTAL	Add switch for traceability total.	1: NON ADD 2: ADD
B20-03 TRCB TTL DEL	Set total clear for traceability total.	1: MANUAL 2: AUTO
B20-04 TRACE PRINT	Turn traceability print on or off.	1: NO PRINT 2: PRINT
B20-05 LOOKUP TBL EDT	Choose to display/not to display the lookup table edit button on the traceability screen in weigh mode.	1: NO 2: YES

Table 4-14. B20 Traceability Parameters

4.14 B22-Price Rounding

Specify rounding methods for various operations. The service password **495344** is required to access this feature.

Display	Description	Choices
B22-01 TAX ROUNDING	Not supported.	1: DOWN 2: 4/5 3: UP
B22-02 PRICE ROUNDING	Set total price rounding digits. Set as 1:01 for USA.	1: 01 2: 05 3: 10 4: 50 5: 100 6: 500 7: 1000 8: 25 9: 25CUT
B22-03 DISC. ROUNDING	Set rounding for markdown items to best match front end POS systems when loyalty programs are being used.	1: DOWN 2: 4/5 3: UP
B22-04 SUB TTL ROUND	Not supported.	1: NON 2: 05 3: 10 4: 50 5: 100 6: 500 7: 1000 8: 25 9: 25CUT

Table 4-15. B22 Price Rounding Parameters

4.15 B23-Frequent Shopper

Select whether to print the markdown price or normal price in the barcode. Specify the logo image that prints when items are discounted. Other images may be printed for normal products. The service password **495344** is required to access this feature.

Display	Description	Choices
B23-01 BAR-P TYPE	Select the price that prints in the barcode when items are discounted.	1: NORMAL 2: MARKDOWN
B23-02 LOG IMAGE1	Specify the logo image number for discount products.	000-999

Table 4-16. B23 Frequent Shopper Parameters

4.16 B26-Country

Select the language and other settings for correct operation according to the regulations of each country. By default, *B26-01-02 Language* is the only step available. The service password **495344** is required to access this feature.

To display *B26-01-01 Country*, enter the service password **951753** and press **PLU**.

To display *B26-01-03 Detail*, enter the service password **495344** and press **PLU**.

From *B26-01-03 Detail*, press **PLU** and use the **Right** arrow key to scroll through *B26-02 Currency*, *B26-03 Weight*, *B26-04 Date* and *B26-05 Data*.

From *B26-03 Weight*, enter the service password **951753**, press **PLU** and then press **Enter** to access *B26-03-02 Decimal Point Position*, *B26-03-03 Decimal Point Type*, *B26-03-05 Minimal Print Weight*, *B26-03-06 Zero Width*, *B26-03-08 Price Cal. Rate* and *B26-03-09 Minimum Print Weight Auto*.

From *B26-03 Weight*, enter the service password **1478963**, press **PLU** and then press **Enter** to access *B26-03-01 Weight Unit* and *B26-03-04 Maximum Tare*.

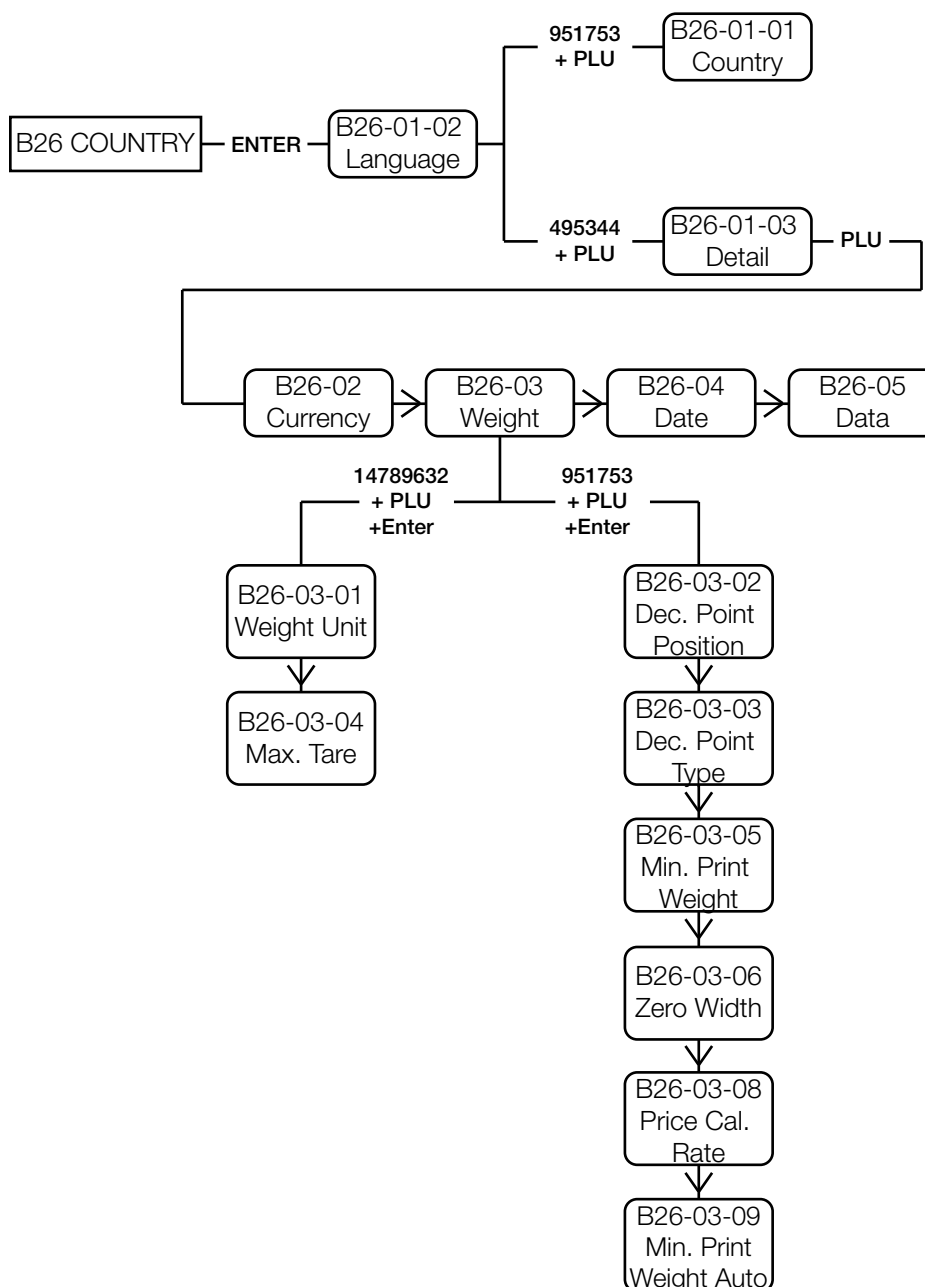


Figure 4-1. B26 Country Menu Navigation

Parameter	Display	Description	Choices
B26-01 LANGUAGE	B26-01-01 COUNTRY	Select destination country. This step is only available with service password 951753 .	1: USA 2: CANADA 3: EUROPE 4: UK 5: OCEANIA 6: S. AFRICA 7: ARGENTINA 8: URUGUAY 9: THAILAND
	B26-01-02 LANGUAGE	Select language file.	1: ENGLISH 2: FRENCH 3: GERMAN 4: ITALIAN 5: DUTCH 6: SPANISH 8: ENG-S.AFR 9: SWEDISH 10: TURKISH 11: SLOVENE 12: THAI 13: GREEK 14: VIETNAMESE
	B26-01-03 Detail	Edit country detail data. This step only available with service password 495344 .	--
B26-02 CURRENCY	B26-02-01 CURR. SYMBOL	Select currency symbol.	\$
	B26-02-02 DEC. POSI	Select decimal point position.	2
	B26-02-03 DEC. TYPE	Select decimal point type.	1: (.) 2: (,)
B26-03 WEIGHT	B26-03-01 WGT. UNIT	Select weight unit symbol. This step is only available with service password 14789632 . NOTE: 2:kg and 3:g may be selected but are not recognized. Capacity is fixed at 30 x 0.01 lb.	1: lb 2: kg 3: g
	B26-03-02 DEC. POSI.	Select decimal point position. This step is only available with service password 951753 .	1-5 (3)
	B26-03-03 DEC. POINT	Select decimal point type. This step is only available with service password 951753 .	1: (.) 2: (,)
	B26-03-04 MAX. TARE	When country is USA and units are lb, the maximum tare weight is 9.99 (entered as 999). <i>Example: Enter 25 for a 0.25 lb tare weight.</i> This step is only available with service password 14789632 .	999
	B26-03-05 MIN. PRN WGT	Minimum print weight in manual print mode. "e" represents one weight division which is 0.01 lb for standard weighing. 20e = 0.20 lb, 5e = 0.05 lb, 3e = 0.03 lb. This step is only available with service password 951753 .	1: 20e 2: 5e 3: 3e
	B26-03-06 ZERO WID.	Fixed at 2.50. This step is only available with service password 951753 .	2.50
	B26-03-08 PRICE RATE	Set the total price multiplier rate. For USA, use 0: x1. This step is only available with service password 951753 .	0: x1 1: x10 2: x100
	B26-03-09 MIN. WGT AUT	Minimum print weight in auto print mode. "e" represents one weight division which is 0.01 lb for standard weighing. 20e = 0.20 lb, 5e = 0.05 lb, 3e = 0.03 lb. This step is only available with service password 951753 .	1: 20e 2: 5e 3: 3e
	B26-03-10 ADD ZERO	Not supported.	1: No 2: Yes

Table 4-17. B26 Country Parameters

Parameter	Display	Description	Choices
B26-04 DATE Gain access by pressing PLU from step B26-01-03 and using the right arrow key to scroll to B26-04.	B26-04-01 DATE FORMAT	Set the date format. Y = Year, M = Month D = Day.	0: Y-M-D 1: M-D-Y 2: D-M-Y
	B26-04-02 YEAR TYPE	Set the number of digits in the year.	1: YY 2: YYYY
	B26-04-03 MONTH TYPE	Set the month format. For the USA, select numeric (0: DIGIT) or three character abbreviation (1: USA).	0: DIGIT 1: USA 2: CANADA 3: SPAIN
	B26-04-04 DATE SPACER	Select the separator character used in the date.	1: (,) 2: (.) 3: (:) 4: (/) 5: SPC 7: (-)
	B26-04-05 SHELF LIFE	Specify if the shelf life calculation includes the pack day (2: TODAY) or begins from the following day (1: NEXT DAY).	1: NEXT DAY 2: TODAY
B26-05 DATA Gain access by pressing PLU from step B26-01-03 and using the right arrow key to scroll to B26-05.	B26-05-01 PLU TYPE	PLU data format. Set as 1: Standard for USA.	1: STD 2: TH 3: ZA

Table 4-17. B26 Country Parameters (Continued)

4.17 B27-File Save/Load

Backup and restore scale files using a USB flash drive. Up to seven “Data0x” folders can be saved onto one USB flash drive. For detailed step by step instructions, see [Section 1.8.8 on page 13](#) to load a file from a flash drive and [Section 1.8.9 on page 14](#) to save a file to a flash drive. The service password **495344** is required to access this feature.

USB specifications: 8 GB or smaller, FAT32 file system and USB 3.0 high speed format.

Parameter	Display	Description	Choices
B27-01 USB-TO-SCALE	B27-01-01 Input Select	Press the PLU key to scan the USB flash drive for valid data folders.	--
	B27-100 Select USB Folder	Use the Down Arrow to scroll through the folders found on the USB flash drive.	--
	B27-101 USB Data01 – B27-107 USB Data07	Press the PLU key to select the folder containing files to be transferred to the Astra II.	--
	B27-01-02 Data Type	Select the option to load the standard data files or the complete SRAM memory image. Input the selection and press Enter . Loading the SRAM is useful after replacing the CPU board. 1: Load standard data files from the selected USB folder. 2: Load the SRAM file from the selected USB folder. <i>Note: This step is only available after entering the service password 495344, then Tare. The SRAM file must exist in the selected USB folder.</i>	1: MASTER 2: SRAM
	B27-01-03 Master Mode	Press the Down Arrow to scroll to the Master Mode. Input the selection and press Enter . 1: Auto to load all files from the USB folder. 2: Manual to select individual files to load.	1: AUTO 2: MANUAL
	B27-01-04 Execute	Press the Down Arrow to scroll to the Execute Option. Press the Zero key to begin receiving files from the USB.	--
	B27-01-05 PLU – B27-01-59 G Nutrition	If 1: Master was selected in step B27-01-02 and 2: Manual was selected in step B27-01-03, press the Down Arrow to scroll to the individual files. For each file to be loaded in to the scale, press 1 then Enter . Press the Zero key to begin loading the selected file(s) from the USB. 0: Do not load the file. 1: Load the file.	0 - 1
	B27-01-05 SRAM Data	Select if only the SRAM data file will be loaded from the selected USB folder. To load, press 1 then Enter . Press the Zero key to begin loading files from the USB. 0: Do not load the SRAM file. 1: Load the SRAM file. <i>Note: This step is only available if 2: SRAM was selected in step B27-01-02. Only one selection can be made between steps B27-01-05 and B27-01-06.</i>	0 - 1
	B27-01-06 SRAM + Master	Select if the SRAM data file and the standard data files will be loaded from the selected USB folder. To load, press 1 then Enter . Press the Zero key to begin loading files from the USB. 0: Do not load the SRAM file and standard data files. 1: Load the SRAM file and standard data files. <i>Note: This step is only available if 2: SRAM was selected in step B27-01-02. Only one selection can be made between steps B27-01-05 and B27-01-06.</i>	0 - 1
14011-0000 Input Check	Execute confirmation screen. Press the Enter key to begin receiving from the USB. Press CLR to quit. When 14013-000x COMPLETE INPUT is displayed, file transfer is finished. Press Enter to exit. <i>Note: If the SRAM file was loaded the scale must be powered off. Remove the USB before powering on.</i>	--	

Table 4-18. B27 File Save/Load Parameters

Parameter	Display	Description	Choices
B27-02 Scale to USB	B27-02-01 Output Select	Press the PLU key to scan the USB flash drive for valid data folders.	--
	B27-200 Select USB Folder	Use the Down Arrow key to select an unused folder. Maximum of seven folders from USB01 to USB07 are available.	--
	B27-201 USB Data01 – B27-207 USB Data07	Press the Edit key to name the folder. Press the Enter key when complete.	--
	B27-02-02 Data Type	Select the option to save the standard data files or the complete SRAM memory image. Input the selection and press Enter . Saving the SRAM is useful if the CPU board will be replaced. 1: Save standard data files to the selected USB folder. 2: Save the SRAM file to the selected USB folder.	1: MASTER 2: SRAM
	B27-02-03 Master Mode	Press the Down Arrow to scroll to the Master mode. Input the selection and press Enter . 1: Auto to save all files to the USB folder. 2: Manual to select individual files to save. <i>Note: Selection 1: Auto is strongly recommended to save all files. Step B27-02-03 is not available if 2: SRAM was selected in step B27-02-02.</i>	1: AUTO 2: MANUAL
	B27-02-04 Execute	Press the Down Arrow to scroll to the Execute option. Press the Zero key to begin sending files to the USB. <i>Note: If 2: SRAM was selected in step B27-02-02 scroll down and enable either step B27-02-05 or B27-02-06.</i>	--
	B27-02-05 PLU – B27-02-59 G Nutrition	If 1: Master was selected in step B27-02-02 and 2: Manual was selected in step B27-02-03, press the Down Arrow to scroll to the individual files. Select the files to be saved by pressing 1 then Enter . Press the Zero key to begin sending files to the USB. 0: Do not save the file. 1: Save the file.	0 - 1
	B27-02-05 SRAM Data	Select if only the SRAM data file will be saved to the selected USB folder. Press the Zero key to begin sending files to the USB. 0: Do not save the SRAM file. 1: Save the SRAM file. <i>Note: This step is only available if 2: SRAM was selected in step B27-02-02. Only one selection can be made between steps B27-02-05 and B27-02-06.</i>	0 - 1
	B27-02-06 SRAM + Master	Select if the SRAM data file and the standard data files will be saved to the selected USB folder. Press the Zero key to begin sending files to the USB. 0: Do not save the SRAM file and standard data files. 1: Save the SRAM file and standard data files. <i>Note: This step is only available if 2: SRAM was selected in step B27-02-02. Only one selection can be made between steps B27-02-05 and B27-02-06.</i>	0 - 1
	14012-0000 Output Check	Execute confirmation screen. Press the Enter key to begin sending to the USB. Press CLR to quit. When 14014-000x-COMplete OUTPUT is displayed, backup is finished. Press Enter to exit.	--
B27-03 USB Data Delete	B27-03-01 Delete Select	Press the PLU key to scan the USB flash drive for valid data folders.	--
	B27-300 Select USB Folder	Use Down Arrow to scroll through folders found on the USB flash drive.	--
	B27-301 — B27-307	Press the PLU key to select the folder to be deleted from the USB flash drive.	--
	B27-03-03 Master Mode	Press the Down Arrow to scroll to the Master mode. Input the selection and press Enter . 1: Auto to delete all files from the USB folder. 2: Manual to select individual files to delete.	1: AUTO 2: MANUAL
	B27-03-04 Execute	Press the Down Arrow to scroll to the execute option. Press the Zero key to begin deleting the folder.	--
		14015-0000 Enter or Clear (Delete Check)	Press the Zero key to begin deletion. Press CLR to quit. When 14016-0000 DELETE COMPLETE is displayed, deletion is completed.

Table 4-18. B27 File Save/Load Parameters (Continued)

Parameter	Display	Description	Choices
B27-04 Scale Initialize	B27-04 Scale Initialize	Clear or initialize individual files in the scale's memory.	--
	B27-04-03 Master Mode	Input the selection and press Enter . 1: Auto to initialize all files in memory. 2: Manual to select individual files to initialize.	1: AUTO 2: MANUAL
	B27-04-04 Execute	Press the Zero key to begin initializing files.	--
	B27-04-05 PLU – B27-04-59 G Nutrition	If 2: Manual was selected in step B27-04-03, press the Down Arrow to scroll to the individual files. For each file to be initialized, press 1 then Enter . Press the Zero key to begin deleting or resetting the selected file(s). 0: Do not initialize the file. 1: Initialize the file.	0 - 1
	14027-0000 Enter or Clear	Execute confirmation screen. Press the Enter key to begin initializing. Press CLR to quit. When 14028-000x COMPLETE INITIALIZATION is displayed, initializing is complete. Press Enter to exit.	--

Table 4-18. B27 File Save/Load Parameters (Continued)

4.18 B31-Mode Access Code

Specify the password codes used to directly enter a menu/mode. The service password **495344** is required to access this feature.

Display	Description	Choices
B31-01 ADJUST	Adjust mode startup code. Default is 4000 .	--
B31-02 SETUP	Setting mode startup code. Default is 6000 .	--
B31-03 PROGRAM	Registration mode startup code. Default is 9000 .	--
B31-04 TOTAL	Total mode startup code. Default is 8000 .	--
B31-05 OPERATE	Operate mode startup code. Default is 5000 .	--
B31-06 M COD TYPE	Leave as 0: None Do not select 1: Date, it is not valid for the USA.	0: NONE 1: Date

Table 4-19. B31-Mode Code

5.0 Adjustment Mode

Enter **4000** and press **Mode** to enter the Adjustment mode menu. To exit the Adjustment mode, press **Mode**.

Several parameters in the Adjustment mode are restricted to authorized service personnel. Enter the service password **495344** and press **PLU** to access all of the Adjustment mode parameters. All Adjustment mode parameters are available until the scale returns to normal operation mode.



Note The Default password 4000 can be changed in the Setup menu step B31-Mode Access Code (Section 4.18 on page 58).

The Adjustment Mode for this device includes the following parameters:

- C01 Date Time
- C03 Display Check
- C04 Key Check*
- C05 Firmware Details
- C06 Memory Clear*
- C07 Printer*
- C08 Calibration*
- C10 Download*
- C13 Model*

*Full access requires the service password.

Use the **Up** and **Down** arrow keys to select a parameter within the Adjustment menu. Press the **Enter** key to enter the parameter. Use the **Up** and **Down** arrow keys to move through the menu options. Use the **Left** and **Right** arrow keys (or key in the corresponding number) to select the appropriate choice.

Example:

1. Enter **4000** and press the **Mode** key to enter the main menu in the Adjustment mode.

```
( C00 ADJUST )
```

2. Press the **Down Arrow** three times to scroll to **C05 FIRMWARE DETAILS**.

```
C05 FIRMWARE DETAILS
```

3. Press **Enter**. **B05-01 SOFTWARE** displays.

```
C05-01 SOFTWARE 00785C
```

4. Press the **Down Arrow** to scroll through other firmware details or press the **Mode** key three times to resume operation.

5.1 C01-Date Time

Adjusts date and time of *Astra II*'s internal clock.

Display	Description	Choices
C01-01 DATE	To adjust the date, enter the date in the format MMDDYYYY (Month+Day+Year). Press Enter to store data.	MMDDYYYY
C01-02 TIME	To adjust the time, enter the time in the format HHMMSS (Hour:Minute:Second). Press Enter to store the data. Time is entered in a 24-hour format. <i>Example: 3:47:00 pm is entered as 154700.</i>	HHMMSS
C01-04 JULIAN	The Julian date is the number of days since January 1st. This step displays the Julian date - it is not possible to change it. Display format: DDD-YYYY.	--

Table 5-1. C01 Date Time Parameters

5.2 C03-Display Check

Displays all the digits of the liquid crystal display simultaneously. Press the **Mode** key to exit.



Figure 5-1. Examples of Display During Lighting Check

5.3 C04-Key Check

Confirm each key is working properly. Press **ESC** to exit.

Display	Description	Choices
C04-01 KEY DATA	Press each key to verify operation. The address is displayed and the buzzer beeps.	--

Table 5-2. C04 Key Check Parameters

Membrane Keys													Mechanical Keys			
ESC	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
35	26	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68
69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85
86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102

Table 5-3. Key Check Address Reference

5.4 C05-Firmware Details

Displays the program number and version of the firmware in the following format:

Example: B0785C

B****# or C****#.

B: Standard Program Code

C: Option Program Code

****: Base Program four-digit number

#: Version Mark



Note To avoid confusion, some letters, such as I, O and Q, are not available for the version mark.

Press **Mode** to exit.

Display	Description	Choices
C05-01 SOFTWARE	Displays the program number and version of the title software. Refer to this program number and version when checking for updates.	--
C05-02 MAIN	Displays the program number and version of the main software.	--
C05-03 OS	Displays the program number and version of the operating system.	--
C05-04 BOOT ROM	Displays the program number and version of the Boot ROM.	--
C05-06 SCALE DRI.	Displays the program number and version of the A/D Driver.	--
C05-07 UPDATER	Displays the program number and version of the Updater ROM.	--

Table 5-4. C05 Firmware Details Parameters

5.5 C06-Memory Clear

This procedure is for clearing all programmed data and resetting configuration to factory defaults.

Display	Description	Choices
C06-01 MASTER CLR	Deletes all data in the program menu and custom label formats. Press Zero twice to clear the RAM. After clearing the memory, the result is displayed: Success [OK], Failure [NG].	--
C06-02 SYSTEM INIT	Used to restore the default settings of the system data. All of the settings of the Setup menu are initialized to the default settings by executing this mode. Press Zero twice to execute. After completing the initialization, the result is displayed: success [OK], failure [NG].	--
C06-03 TEST DATA	Test Data Set creates PLUs, Store Name, Preset Keys, etc. for testing purposes. Press Zero twice to execute. All existing data is deleted when Test Data Set is performed.	--
C06-04 SRAM	Monitors the status of the SRAM. #####: Available Memory, *****:Total Memory	#### - ****
C06-05 SDRAM	Monitors the status of the SDRAM. #####: Available, *****: Total.	##### - *****
C06-06 FLASH	Displays the size of the installed program and the flash ROM. #####: Total size of program, *****: Size of flash ROM.	##### - *****

Table 5-5. C06 Memory Clear Parameters

5.6 C07-Printer

Initializes and adjusts the thermal printer, including the Peel Sensor, Label Gap Sensor and Thermal Head Density (darkness).

Parameter	Display	Description	Choices
C07-01 HEAD	C07-01-01 TEST PRINT	Selects the printing test pattern. Press Print to print out a test label.	0: CHECKER 1: NORMAL
	C07-01-02 HEAD TYPE	Displays the thermal head model.	0: CHX56-9719
	C07-01-03 USAGE KM	Displays the running distance of the thermal head. When replacing the main board, enter the running distance by using the numerical keypad. Press Enter to overwrite. Enter 495344 and press the Size key to unlock.	--
	C07-01-04 RESISTAN	Set the resistance value of the thermal head. Enter the resistance value by using the numerical keypad. Press Enter to overwrite. Set as 1100. This is the standard fixed value for <i>Astra II</i> thermal heads.	--
	C07-01-05 B FEED 45	The adjustment value of the backward feeding. Enter the adjustment value for 45mm. Press Zero to store.	1.0
	C07-01-06 B FEED 60	The adjustment value of the backward feeding. Enter the adjustment value for 60mm. Press Tare to store.	1.0
	C07-01-07 B FEED 80	The adjustment value of the backward feeding. Enter the adjustment value for 80mm. Press Feed to store.	1.0
	C07-01-08 PROTECT	Selects whether to monitor and provide an error if the thermal head over heats.	0: NO 1: YES
	C07-01-09 PRINT INIT	Initializes the printer. Resets all printer settings to default values. Press Zero followed by Enter to execute.	--
	C07-01-10 HEAD INIT	Initializes the thermal head. Press Zero followed by Enter to execute.	--
	C07-01-11 HEAD CHK	Checks the thermal head print elements. Press Zero to execute. A long beep indicates OK, an error beep indicates one or more elements are faulty.	--

Table 5-6. C07 Printer Parameters

Parameter	Display	Description	Choices
C07-02 PEEL SENSOR	C07-02-01 LEVEL	Monitors the output level of the peel sensor.	Unblocked: More than 130 Blocked: Less than 20
	C07-02-02 DETECT	Adjusts the threshold value of the peel sensor.	0-255 (90)
	C07-02-03 SENSITIVI	Adjusts the sensitivity of the peel sensor.	0-255 (0)
C07-03 LABEL TYPE	C07-03-01 LABEL TYPE	Selects the type of the thermal paper to be used.	1: 130LA-1 3: 150LA-1
	C07-03-02 DENSITY	Adjusts the print density (darkness). Default is 5.	0-9 (5)
	C07-03-03 DIRECTION	Specifies the print direction.	0: STANDARD 1: INVERSE
	C07-03-04 LABEL SHAPE	Specifies shape of the label.	0: STANDARD 1: ROUNDING
	C07-03-05 GAP	Specifies the size of the gap between labels (mm).	0.1-99.9 (2.5)
	C07-03-06 ROUND	Specifies gap of round label.	0.0-99.9 (0.0)
C07-04 LABEL FEED	C07-04-01 SENSOR TYPE	Specifies if the Label Gap sensor is active.	0: NONE 1: LABEL
	C07-04-03 LEVEL XXX YY	Enter a value to adjust the label gap sensor. Where XXX is the label sensor level reading and YY is the sensitivity adjustment value. Adjust the sensitivity value to achieve the desired label sensor level readings. <ul style="list-style-type: none"> Backing Paper Only: Approximately 150 Backing Paper and Label: Approximately 50 Check the readings by placing a label on the backing and then just the backing paper in the label gap sensor.	0-255
	C07-04-04 GAP DETECT.	Adjusts the threshold value of the label gap sensor. Any sensor readings below the set value are ignored. This is useful when the label has dark pre-printed areas that affect the sensor output.	0-255 (0)
	C07-04-05 LENGTH	Adjusts the length of the preprint section. Specify length in 0.1 mm.	7.5
	C07-04-06 DISTANCE	Specifies the distance between the label gap sensor and the print elements on the thermal head. Adjusts the label stop position which also moves the print up or down on the label. Increase the value to stop the label farther out and raise the printing up. Specify the distance in 0.1 millimeters. Default value is 71.0 mm.	71.0
	C07-04-07 BACK FEED	Select if backfeed is enabled. This allows variable data (other than the store name) to print at the bottom of the label. Do not use backfeed with continuous labels.	0: NO 1: YES
	C07-04-08 PEEL SENSOR	Select if the peel sensor is enabled. During normal operation, this should be set as 0: USE. If the sensor is faulty, however, it may be disabled until repairs are made.	0: USE 1: NO USE

Table 5-6. C07 Printer Parameters (Continued)

5.7 C08-Calibration

Set the scale's capacity and range and calibrate the weight readings.

Display	Description	Choices
C08-01 CAPACITY	Specifies the scale's maximum capacity and units. Fixed at 2 (30 lb capacity).	2: 30 lb
C08-02 RANGE	Specifies the accuracy of the scale. Fixed at 0 (single) 0-30 x 0.01 lb	0: SINGLE

Table 5-7. C08 Calibration

Display	Description	Choices
C08-09 INITIALIZE	Press the Copy key to initialize all calibration parameters. All settings are reset to default values after initialization. Recalibrate the scale at step C08-10 following the instructions in Section 5.7.1 . Press the span button to store the settings. NOTE: This function should only be executed when weight readings or calibration is not operating normally.	--
C08-10	For span calibration see Section 5.7.1 .	--

Table 5-7. C08 Calibration (Continued)

5.7.1 Calibrate the Scale

1. Remove any objects from the platter and press the **Zero** key. Display reads: Span= 20000, Weight= 0.00.
2. Place full capacity weight on the scale: 30 lb.
3. Press **Tare**. Display reads: Span= 80000, Weight= 30.00.
4. Remove the weight. Display reads: Span= 20000, Weight= 0.00.
5. Repeat from step 1 if necessary.
6. On the left side of the machine, remove the bottom hex screw covering the **Span** button.



7. Press the **Span** button with a small non-metallic stick to save the calibration parameters. A long beep will sound.
8. Press the **Mode** key, remove the weight at the message 15032 then press **Enter**.
9. After message 11002 clears, press the **Mode** key twice to exit.
10. Verify the weight readings in the operation mode.
11. Seal the scale according to local regulations.

5.8 C10-Download

Update the scale's firmware via a USB flash drive. Insert the USB flash drive containing the firmware "Soft" folder before entering step C10. Step by step details are provided in [Section 5.8.1](#).


Note

Check www.ricelake.com/ for the latest firmware version. Must log in to download.

USB specifications: 8 GB or smaller, FAT32 format, USB 3.0 (P/N 160906 is recommended)

IMPORTANT

The USB flash drive must be empty except for the firmware "Soft" folder.

Display	Description	Choices
C10-01 COPY METHOD	Selects the downloading procedure. Enter the number and press Enter . Select step 0 or 1 to download firmware to the scale. 0: Firmware and default images 1: Firmware only After pressing the Enter key, press the Down arrow key to display the firmware version.	0: USB>MAIN (PRG+IMG) 1: USB>MAIN (ONLY PRG) 2: USB>MAIN (ONLY IMG) 3: USB>MAIN (BOOT REN) 4: MAIN>USB (PRG+IMG) 5: MAIN (ALL CLR) NOTE: 3 and 5 are only available when booting from a USB flash drive.
C10-02 SELECT	The USB firmware version is displayed. Press the Enter key two times to begin loading. When loading is complete (message: Reboot Check 15029-0000) power off the scale and remove the USB flash drive.	--

Table 5-8. C10 Download

5.8.1 Firmware Loading Procedure

Refer to the Webinars section of the Astra II product page on the Rice Lake web site for detailed step-by-step instructions to update the scale firmware. <https://old.ricelake.com/Portals/0/interactive-demos/astra2-installation-setup/index.html>

- Copy the Astra II scale firmware folder "Soft" onto an empty USB memory stick.
 - The folder and files must not be zipped.
 - The "Soft" folder must be the only data on the USB memory stick.
 - The recommended USB memory stick specifications are: 8GB or smaller, USB 3.0 high-speed format, and FAT32 file system.
 - If a compatible USB memory stick cannot be found, PN 160906 can be ordered from Rice Lake Weighing Systems.
- With the Astra II powered OFF insert the Memory Stick in to the USB port.


Note

DO NOT REMOVE the USB Memory Stick during the firmware update procedure.

- Power up the Astra II. At the Date/Time confirmation screen press **Enter**.


Note

Power up may take several minutes depending on the firmware version.

- At C13-01 MODEL press **Mode**.
- At S00 OPERATE press ← (Left Arrow).
- At C00 ADJUST enter the service password **495344** and press **PLU**.
- Scroll down to C10 DOWNLOAD using ↓ (Down Arrow) and press **Enter**.
- At C10-01 COPY METHOD press ↓ (Down Arrow) to C10-02 SELECT.
- Confirm the correct firmware version is displayed and press **Enter**.
- A warning message 15034-0000 "Database Version Is Different" may be displayed indicating a memory clear will be required after loading the new firmware. If a current backup is not available press **CLR** and **Mode** then power off the scale and make a backup. To continue loading the new firmware press **Enter**.
- At message 15017-0000 "CHK MAIN PROG DOWNLOAD" press **Enter** to begin the firmware download.

12. The display will show the firmware download progress.

**Note**

The download may take a several minutes to begin and up to 20 minutes to complete. Data transfer may be confirmed by the flashing light on the USB memory stick.

13. When message 15029-0000 "RE-BOOT CHECK" is displayed, the firmware download is complete.
14. Power the scale off and remove the USB Memory Stick.
15. Power up the Astra II. At the Date/Time confirmation screen press **Enter**.
16. If warning message 15034-0000 "Database Version Is Different" was displayed at step 10, a memory clear is required, otherwise the scale is ready to use.
17. At S00 OPERATE press ← (Left Arrow).
18. At C00 ADJUST enter the service password **495344** and press **PLU**.
19. Scroll down to C06 MEMORY CLEAR using ↓ (Down Arrow) and press **Enter**.
20. At C06-01 MASTER DATA CLEAR press **Zero, Zero**.
21. After OK is displayed, press **Mode, Mode, Mode**.
22. At the Date/Time confirmation screen press **Enter**.
23. Load data as needed.

5.9 C13-Model

Selects the scale model.

Display	Description	Choices
C13-01 MODEL	Specifies the model, ensures all appropriate functions are available and the correct operation of the hardware. 1: B/P is Bench or Pole	1. B/P
C13-17 – C13-24 Tri Mark7 – Tri Mark14	Display the status of various connections using the triangle annunciators along the bottom of the operator display. Available positions are located under the 7th, 9th, 11th, and 14th display digit from the left. 0: None indicates triangle mark is not used. 1: Online indicates the network connection status. This is the response to the Comm Check set in step B01-03-03 from the PC IP Address set in step B01-03-01. 4: USB indicates that a USB flash drive is inserted in the scale.	0: None 1: Online 4: USB

Table 5-9. C13 Mode

6.0 Program Mode

Enter **9000** and press the **Mode** key to enter the main menu in the Program mode. To exit the program mode, press the **Mode** key.



Note The default password 9000 can be changed in the Setup menu step B31-Mode Access Code ([Section 4.18 on page 58](#)).

The Program Mode for this device includes the following parameters:

- P01 PLU
- P02 Campaign
- P04 Preset Key
- P05 Ad Msg.
- P06 Store
- P07 Department
- P08 Group
- P09 Cooking Time
- P10 Nutrition
- P11 Extra Msg. 1
- P12 Extra Msg. 2
- P13 Extra Msg. 3
- P19 Lookup Table
- P21 Fix Price Symbol
- P37 Check Label
- P40 Price Change

Use the **Up** and **Down** arrow keys to select a parameter within the Program menu. Press the **Enter** key to enter the parameter. Use the **Up** and **Down** arrow keys to move through the menu options. Use the **Left** and **Right** arrow keys (or key in the corresponding number) to select the appropriate choice.

Example:

1. Enter **9000** and press the **Mode** key to enter the main menu in the Program mode.

```
( P00 PROGRAM )
```

2. Press the **Down Arrow** three times to scroll to **P04 PRESET KEY**.

```
P04 PRESET KEY
```

3. Press **Enter**. **P04-01** displays.

```
P04-01 000 0 000
```

4. Press **PLU** to scroll through the list of functions. If the function number is known, key in the number and press **PLU**. See [Section 6.3 on page 71](#) for function key flag numbers.

*Example: To select a PLU (flag 1), key in 1 on the numeric keyboard and press **PLU**.*

```
P04-01 000 72 1
```

```
P04-01 001 72 0
```

5. If the function includes data, enter the value and then press the desired preset key.

Example: Key in 5 (for PLU number 5) and press the bottom left corner key.

```
P04-01 001 72 5
```

If the function does not include data (e.g. Save - flag 8), key in 0 and then press the desired preset key.

6. Press the **Mode** key three times to resume operation.

6.1 P01-PLU Data

1. From the program mode main menu screen, press the down arrow once to scroll to *P01 PLU*.
2. Press **Enter** to display *P01-00 PLU*.
3. Enter the PLU number.
4. Press **PLU**. *13001-0000 ENT OR CLR* displays if it is a new PLU.
5. Press **Enter** to confirm the new PLU. *P01-01 < SALE1 >* displays.
6. Press **Edit**. *INP 0001-0000 00* displays
7. Enter or edit the PLU description text. See [Section 9.2 on page 86](#).
8. Press **Enter**. *P01-01 < SALE1 >* displays.
9. Press **Enter** to enter the lower level menus.
10. To navigate between sections P01-01, P01-02, etc. use the **Right** and **Left** arrow keys.

Parameter	Display	Description	Choices
P01-01 Sale1 (The steps displayed in this section change based on the Sales Mode)	P01-01-01 SALES	Enter the mode number to select the desired sales mode. Press Enter . To delete the PLU press Zero at this step.	0: WEIGHT 1: FIX PRI 2: WGT F/PRI
	P01-01-02 MD MODE	Enter the mode number to select the desired markdown mode. Press Enter . 0: NORMAL for no markdown. 1: SPECIAL, 2: -\$, and 3: -% apply to the total price and are used for fixed price PLUs. 4: SPEC. U/P, 5. U/P -\$, and 6: U/P -% apply to the unit price and are used for weighed PLUs.	0: NORMAL 1: SPECIAL 2: -\$ 3: -% 4: SPEC. U/P 5. U/P -\$ 6: U/P -%
	P01-01-03 OPEN PRICE	Enter the mode number to select whether or not to allow the operator to change the price. Press Enter .	0: YES 1: NO
	P01-01-04 PRICE	Enter the unit or fixed price. Press Enter . To change the price of another PLU, enter the number and press the PLU key. Then enter the new price and press Enter . Repeat to change other PLU prices.	0.00 - 999.99
	P01-01-05 MARKDOWN AMOUNT	Enter the markdown amount. Press Enter . Data format is X.XX for price and X.X for percent. This step is only accessible if a markdown mode has been set in step P01-01-02.	0.0 - 99.9 (%) 0.00 - 999.99 (\$)
	P01-01-06 QUANTITY	Enter the quantity for fixed price items. Press Enter . This step is only available when P01-01-01 Sales Mode is set to 1: Fix Price or 2: WGT F/PRI	0 - 999
	P01-01-07 UNIT TYPE	Select the unit type to be used in the Pieces statement for fixed price PLUs. A singular unit for one piece is available as well as a plural unit for multiple items. The list can be edited in step P21 Fix Price Symbol, see Section 6.11 on page 76 . This step is only available when P01-01-01 Sales Mode is set to 1: Fix Price or 2: WGT F/PRI.	0: NO PRINT 1: oz 2: lb 3: kg 4: g 5: PC 6: BOX 8: PACK 9: CUT 11: CUP 12: PKT 13: BAG 16: LB

Table 6-1. P01 PLU Data

Parameter	Display	Description	Choices
P01-01 Sale1 (The steps displayed in this section change based on the Sales Mode)	P01-01-09 FIXED WEIGHT	Enter a bakery weight in ounces for fixed price items. Press Enter .	0 - 999
	P01-01-10 TARE	Enter a tare weight to subtract the weight of the container or packaging. Press Enter .	0.00 - 9.99 (lb)
	P01-01-12 P TARE	Enter the tare percentage. Press Enter . Format is X.X% <i>Example: Enter 60 for a 6.0% tare.</i>	0.0 - 50.0
	P01-01-13 FORCED TARE	Enter the mode number to select whether or not a tare weight is required to print a label. Press Enter .	1: YES 2: NO
	P01-01-14 LO WGT	Enter a lower weight limit to be used for checkweighing. Press Enter .	0.00 - 30.00 (lb)
	P01-01-15 UP WGT	Enter an upper weight limit to be used for checkweighing. Press Enter .	0.00 - 30.00 (lb)
P01-03 MSG. (Link nutrition data or text messages to the PLU)	P01-03-01 NUT.	Enter the desired Nutrition Facts number. Press Enter to select.	0 - 999999
	P01-03-02 — P01-03-04 MSG1-3	Enter the desired Extra Message number. Press Enter to select.	0 - 999999
	P01-03-07 COOK	Enter the desired Cook Time number. Press Enter to select.	0 - 9999
P01-04 IMAGE (Link or enable image printing for the PLU)	P01-04-01— P01-04-03 IMAGE 1-3	Set the image to print on the label. The label format must be configured to support variable images. Press Enter to select.	0 - 999
	P01-04-05 S H IMG	Leave at 0. The safe handling image is specified in the label format.	0
	P01-04-06 S H IMG PRN	Enter the mode number to select whether or not to print the safe handling image. Press Enter .	1: NO PRINT 2: PRINT
P01-06 DATE (Configure date and time printing for the PLU)	P01-06-01 P/D PRN	Enter the mode number to select whether or not to print the packed date. Press Enter .	1: YES 2: NO
	P01-06-02 PK TIME PRN	Enter the mode number to select the desired pack time printing method. Press Enter . 1: Designate a specific time 2: Print the scale's current programmed time	0: NO PRINT 1: DESIGNATE 2: CLOCK
	P01-06-03 P/T DATA (HH:MM)	This field is only available when 1: DESIGNATE is selected in P01-06-02 PK TIME PRN. Enter the time in a 24 hour format (HHMM) and press Enter .	00:00 - 23:59
	P01-06-04 SB DATE PRN	Enter the mode number to select whether or not to print the sell by date. Press Enter .	1: YES 2: NO
	P01-06-05 SB TIME PRN	Enter the mode number to select the desired sell by time printing method. Press Enter . 1: Designate a specific time 2: Add the minutes set in step P01-06-06 to the scale's current programmed time	0: NO PRINT 1: DESIGNATE 2: RELATIVE
	P01-06-06 SB TIME	Enter either the time HHMM (1:Designate) or minutes (2:relative) and press Enter . Data format is based on P01-06-05 Sell By Time Print setting.	00:00-23:59 (Designate) 0-1439 (Relative [min])
	P01-06-07 SHELF LF (Days)	This field is available only when 1: YES is selected in P01-06-04 SB DATE PRN. Enter the number of days and press Enter .	0 - 9999 (1)
	P01-06-08 DATE PRN (USE BY)	Enter the mode number to select whether or not to print the use by date. Press Enter .	1: YES 2: NO
	P01-06-09 UB DATA	Enter the number of days for the use by period. Press Enter . This step is only accessible if Use by Date Print is enabled in step P01-06-08.	0 - 9999

Table 6-1. P01 PLU Data (Continued)


Parameter	Display	Description	Choices
P01-07 CODE (Set the bar-code and other tracking data)	P01-07-01 CODE (8 DIGITS)	Enter an item code. Press Enter .	00000000
	P01-07-02 REGI.CODE	Enter the register code. Press Enter . Not supported in the USA.	0
	P01-07-04 BARCODE	Enter a barcode number. Press Enter . Do not enter more than 10 digits.	0000000000
	P01-07-08 TRACE EN	Enter the mode number to select whether or not to enable traceability data. Press Enter .	1: YES 2: NO
	P01-07-10 DEPT	Enter desired department number. Press Enter .	0 - 9
	P01-07-11 GROUP NO	Enter desired group number. Press Enter .	00 - 99
	P01-07-12 FMI AI	Specify the barcode format when using GS1 expanded. GTN: GS1 P: Price W: Weight SB: Sell by Date P8: 8-digit Price G: Gross Weight GTNPOS: GS1 (POS)  Note <i>An extra 0 is added at the front of the standard EAN13 barcode for a total of 14 digits. (GNTPOS: GS1 (POS) only)</i>	0: REFER 1: GTN+P+W 2: GTN+P+W+SB 3: GTN+W+P 4: GTN+W+SB+P 5: GTN+P 6: GTN+W 7: GTN+W+SB 8: GTN+P+SB 9: GTN+P8 10: GTN+W+P8+SB 11: N/A 12: GTNPOS 13: GTNPOS+SB 14: GTNPOS+W+SB 15: GTN- POS+W+G+SB 16: GTNPOS+SB+P 17: GTIN+G+UP 18: GTIN+G 19: GTIN
	P01-07-13 FMI NoAI	Specify the barcode format when selecting code 128. C: Product Code D: Day F: Flag M: Month P: Price Q: Quantity of Pieces U: Unit Price W: Weight WQ: Weight or Quantity of Pieces (based on sales mode) Y: Year d: Check Digit 0: Fixed Zero	0: REFER 1: C14 2: C13d 3: F2C5P5WQ5d 4: F1C5P6WQ5d 5: F1C4P7WQ5d 6: C7U7W6 7: C7U700100d 8: F2CRP6W5d 9: F2C6P6W5d 10: F1C6WQ5P5d 11: F2C5U5W5d 12: F2C5U5WQ5d 13: D2M2Y2C6W5D 14: F2C5W5P5d 15: F1C5P6W5d 16: F1C5P6WQ5d 17: D2M2Y2C8W5d 18: C7WQ5P7d 19: C7P8WQ5 20: F2C5P6W4d 21: F2C5U5W40d

Table 6-1. P01 PLU Data (Continued)

6.2 P02-Campaign

Designate sale prices for selected PLUs for a specified period. Set the campaign period (P02-01) and then select the PLUs and set the sale prices (P02-02).


Parameter	Display	Description	Choices
P02-00 CAMPAIGN	--	Enter Campaign number and press PLU . Message <i>13001-0000 New Data</i> is displayed when a new campaign is created. Press Enter to continue or CLR to quit. Press the Down Arrow key to view and select existing campaigns. Press the Zero key to delete the selected campaign.	--
P02-01 SCHEDULE	P02-01-01 SCHED. TYPE	Enter schedule type and press Enter . 0: DATE is used to specify a starting date and time and an ending date and time for the campaign. 1: DLY/WKLY (Daily/Weekly) is used to set the time period and on which days the campaign is active. For example, 11:00 to 14:00 for lunch.	0: DATE 1: DLY/WKLY
	P02-01-02 START DATE	Enter desired start date in MMDDYYYY and press Enter . This step is not available if P02-01-01 is set as 1: DLY/WKLY.	--
	P02-01-03 START TIME	Enter desired start time in HH:MM (24 hour format). Press Enter .	--
	P02-01-04 END DATE	Enter desired end date in MMDDYYYY and press Enter . This step is not available if P02-01-01 is set as 1: DLY/WKLY.	--
	P02-01-05 END TIME	Enter desired end time in HH:MM (24 hour format). Press Enter .	--
	P02-01-06 SUNDAY	Select if the PLUs in the campaign are marked down on Sunday. This option is only available when P02-01-01 is set as 1: DLY/WKLY.	0: OFF 1: ON
	P02-01-07 MONDAY	Select if the PLUs in the campaign are marked down on Monday. This option is only available when P02-01-01 is set as 1: DLY/WKLY.	0: OFF 1: ON
	P02-01-08 TUESDAY	Select if the PLUs in the campaign are marked down on Tuesday. This option is only available when P02-01-01 is set as 1: DLY/WKLY.	0: OFF 1: ON
	P02-01-09 WEDNESDAY	Select if the PLUs in the campaign are marked down on Wednesday. This option is only available when P02-01-01 is set as 1: DLY/WKLY.	0: OFF 1: ON
	P02-01-10 THURSDAY	Select if the PLUs in the campaign are marked down on Thursday. This option is only available when P02-01-01 is set as 1: DLY/WKLY.	0: OFF 1: ON
	P02-01-11 FRIDAY	Select if the PLUs in the campaign are marked down on Friday. This option is only available when P02-01-01 is set as 1: DLY/WKLY.	0: OFF 1: ON
	P02-01-12 SATURDAY	Select if the PLUs in the campaign are marked down on Saturday. This option is only available when P02-01-01 is set as 1: DLY/WKLY.	0: OFF 1: ON
P02-02 DATA	P02-02-01 CALL PLU	Enter desired PLU number and press PLU .	--
	P02-02-02 PLU No.	Displays the PLU number for confirmation	--
	P02-02-03 MD MODE	Enter the desired Markdown mode and press Enter .  Note <i>Modes 1, 2, 3 and 17 are for fixed price items. Modes 4, 5, 6 and 16 are for weighed items. Modes 16 and 17 are used to change the price without printing the pre-markdown price on the label.</i>	1: SPECIAL 2: -\$ 3: -% 4: SPEC. U/P 5: U/P -\$ 6: U/P -% 16: Unit Price 17: Fixed Price
	P02-02-04 MD PRI	Enter the desired dollar or percentage markdown amount and press Enter . Data format is X.XX for dollar amount and X.X for a percentage amount.	0.0 - 99.9 (%) 0.00 - 999.99 (\$)

Table 6-2. P02 Campaign

6.3 P04-Preset Key Registration

Assign presets (PLU number, tare weight, etc.) and function keys (price change, multiply, etc.) to the *Astra II* keyboard.

To assign a second item to a preset key, use the **Lower Preset** key (156). To program, press the key assigned as Lower Preset twice to change to the second level (key numbers 95-178) then program the preset keys normally. The *Astra II* remains at the second level until the **Lower Preset** key is pressed again.

Display	Description	Choices
P04-01 XXX	Enter the Key Flag No. and press PLU to set the function. If the Key Flag No. requires a value, such as a PLU number or tare weight enter the value; otherwise, enter 0. Press the desired key to assign the function. The preset key has been registered. Repeat steps as needed for additional preset keys.	--

Table 6-3. P04 Preset Key Registration

Key Flag No.	Preset Key	Description
1	PLU	Assign a PLU to a key for quick call up
2	Tare	Assign a tare weight to a key for quick call up
3	F/P	Fixed price change or change a PLU to Fixed Price sales mode; Requires Open Price set as Yes
4	MULTI	Use to set number of pieces to be purchased
5	Special	Special price; Requires Open Price set as Yes
6	-\$	Subtract a dollar amount from the total price; Requires Open Price set as Yes
7	-%	Subtract a percentage amount from the total price; Requires Open Price set as Yes. The percent format is X.X
8	Save	Prevents a PLU from clearing after printing a label
9	POP	POP Message
10	Void	Void the last date/void the assigned date
15	Subtotal Display	Subtotal Display
16	Extra1	Select the Extra Message 1 message number to link to the PLU
17	Extra2	Select the Extra Message 2 message number to link to the PLU
18	Extra3	Select the Extra Message 3 message number to link to the PLU
19	F/P+Weigh	Change a PLU to a Fixed Price + Weigh sales mode or change the price of a Fixed Price + Weight item. Requires Open Price set as Yes
20	SP. (U/P)	Enter a Special Unit Price (markdown); Requires Open Price set as Yes
22	Format 1	Change label format 1
23	Image 1	Change logo image 1
24	Image 2	Change logo image 2
25	-Price (U/P)	Subtract a dollar amount from the unit price; Requires Open Price set as Yes
26	Peel MD	Displays the current Peel Sensor status: INDIV (on) or W/BACK (off)
27	Label Batch	Specify fixed price PLUs and label quantity to print a batch
32	U/P	Unit price change or change a PLU to By Weight sales mode. Requires Open Price set as Yes
33	P Date	Enter a temporary Pack date, format is DD, MMDD, or MMDDYYYY
34	S Date	Enter a temporary Sell By date, format is DD, MMDD, or MMDDYYYY
37	Bar Y/N	Choose to print barcode or not
43	Total Display	Total display
45	Image 3	Change logo image 3
66	-% (U/P)	Subtract a percentage amount from the unit price; Requires Open Price set as Yes
71	SH Flag	Safe Handling on/off
75	Auto Print Mode	Toggle the print mode between manual and automatic (prepack)
76	PLU No.	Press to temporarily display the PLU number
77	1/2	Change to pricing by the half-pound; this parameter is not available in the USA

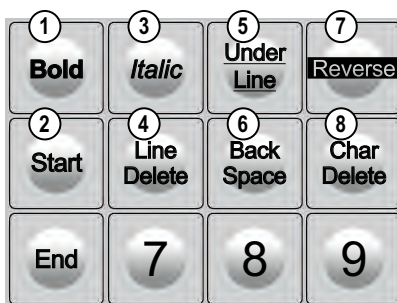
Table 6-4. Preset Key List

Key Flag No.	Preset Key	Description
78	Total Add	Total (add/non add)
79	Trace	Traceability
80	Passport	Traceability passport
99	Man. Wt. oz	Temporarily change the fixed bakery weight
117	Auto PLU	Temporarily disable auto PLU call to make a numeric entry
134	Receipt Trace	Trace the receipt
136	Lot No.	Program lot number
137	Print QTY	Set the quantity of fixed price labels to print
143	Print Nutrition	Print only nutrition
153	OCR	This parameter is not available in the USA
156	Lower Preset	Use to select the second PLU assigned to a preset key
157	Mode Key	Mode key
158	Target QTY	Key to set the target quantity; use in Auto print mode
159	Target WGT	Key to set the target weight; use in Auto print mode
160	Target PRI	Key to set the target price; use in Auto print mode
161	Target Cancel	Key to cancel the target
162	Fixed WGT	Key to enter a fixed weight; this parameter is not available in the USA
166	Charge p+	Add an assigned cost to subtotal in \$
167	Charge p+%	Add an assigned cost to subtotal in %
170	-p \$	Subtract an assigned dollar amount from the total price; requires Open Price set as Yes
171	-p %	Subtract an assigned percentage amount from the total price; requires Open Price set as Yes
172	Head Usage	Display the printed label length in km (same as step C07-01-03)
173	-p Special	Set an assigned special total price amount; Requires Open Price set as Yes
174	-p Spcl (U/P)	Subtract an assigned Special unit price; Requires Open Price set as Yes
175	-p -\$ (U/P)	Subtract an assigned unit price; Requires Open Price set as Yes
176	-p -% (U/P)	Subtract an assigned unit price percentage; Requires Open Price set as Yes

Table 6-4. Preset Key List (Continued)

6.3.1 Default Preset Keys

In operation mode the functions listed in the table below are set by default to the key positions 1-8.



1	Auto/Manual
2	Save
3	Pack Date
4	Sell By Date
5	Unit Price
6	Fixed Price
7	Lower Preset
8	X (Multiply)



Note
To preserve the preset keys, they must be received into SLP-5 Lite before creating and sending presets to the scale.

They can be restored by executing all three steps of the memory clear. All other scale data, including the presets, will also be reset with a memory clear.



Note Open Price in a PLU must be set to Yes to allow the operator to change the price with the Unit Price or Fixed Price functions. See P01-01-03 OPEN PRICE in Section 6.1 on page 67.

6.4 P06-Store Data

Program and set the store name and address that prints on the label. See [Section 1.8.2 on page 10](#) for the step by step procedure.


Display	Description	Choices
P06-00 NO. XXXX	Enter the store number and press PLU to display the desired store data.	--
13001-0000 ENT OR CLR	If the store is new, the confirmation screen is displayed. Press Enter to add the store, or CLR to go back.  Note <i>If an existing store has been requested, P06-01 displays the store name. Press Edit to edit data.</i>	--
INP 0001-0000 00	The Text Edit screen is displayed for the selected store number. Edit text according to the procedure described in Section 9.2 on page 86 . Press Enter when editing is complete.	--
P06-01 NAME	Press Edit to edit store name.	--
P06-02 ADDRESS	Press Edit to edit store address.	--
P06-03 DELETE	Press Zero to delete store.	--
P06-04 PRINTER1	Enter desired store number to print on labels.	--

Table 6-5. P06 Store Data

6.5 P07-Department

Program departments that are then used in the PLU file to designate where totals are accumulated for the purpose of reports printed at the *Astra II*.

Display	Description	Choices
P07-00 DEPARTMENT	Enter the department number and press PLU to display desired store data.	--
13001-0000 ENT OR CLR	If the department is new, the confirmation screen is displayed. Press Enter to add the department, or CLR to go back.	--
INP 0001-0000 00	The Text Edit screen is displayed for the selected department number. Edit text according to the procedure described in Section 9.2 on page 86 . Press Enter when editing is complete.	--

Table 6-6. P07 Department

6.6 P08-Group

Program groups that are then used in the PLU file to designate where totals are accumulated for the purpose of reports printed at the *Astra II*.

Display	Description	Choices
P08-00 GROUP	Enter the group number and press PLU to display desired group data.	--
13001-0000 ENT OR CLR	If the department is new, the confirmation screen is displayed. Press Enter to add the group, or CLR to go back.	--
INP 0001-0000 00	The Text Edit screen is displayed for the selected group number. Edit text according to the procedure described in Section 9.2 on page 86 . Press Enter when editing is complete.	--

Table 6-7. P08 Group

6.7 P09-Cooking Time

The cooking time calculation is not used in the USA.

Display	Description	Choices
P09-00 COOKING TIME	Enter the cooking time number and press PLU to display desired cooking time.	--
13001-0000 ENT OR CLR	If the cooking time is new, the confirmation screen is displayed. Press Enter to add the cooking time, or CLR to go back.	--
INP 0001-0000 00	The Text Edit screen is displayed for the selected cooking time number. Edit text according to the procedure described in Section 9.2 on page 86 . Press Enter when editing is complete.	--
P09-00 METHOD	Press Edit to edit the cooking method. Press Enter when editing is complete.	--
P09-00 TIME	Enter the desired base time and press Enter .	--
P09-00 WGT	Enter the desired weight (minutes/pound) to use with desired cooking method. Press Enter .	--

Table 6-8. P09 Cooking Time

6.8 P10-Nutrition (2020)

Enter nutrition data to be linked to a PLU. A label designed to support nutrition information must be used to print the data.

The 2020 nutrition format is implemented from firmware version B0785D. In addition to a different set of entry fields, all data are entered in text format. The units (% , mg, etc.) must also be entered along with the values.

Display	Description	Choices
P10-00 NUTRITION	Enter the nutrition number and press PLU to display the desired nutrition data.	--
13001-0000 Set Up New Data	If the nutrition data are new, the confirmation prompt is displayed. Press Enter to add the nutrition data or CLR to go back.	--
P10-01 NUTRI. No	The nutrition number is displayed.	--
P10-02 SERVI. SIZE	Press Edit to edit the serving size.	--
P10-03 SERVI. SIZE 2	Press Edit to edit the serving size 2. This parameter is not used in the USA.	--
P10-04 SER. PER CONT	Press Edit to enter the servings per container.	--
P10-05 CALORIES	Press Edit to enter the calories.	--
P10-06 TOT. FAT (W)	Press Edit to enter the total fat value.	--
P10-07 TOT. FAT (%)	Press Edit to enter the total fat percent.	--
P10-08 SATU. FAT (W)	Press Edit to enter the saturated fat value.	--
P10-09 SATU. FAT (%)	Press Edit to enter the saturated fat percent.	--
P10-10 TRANS FAT (W)	Press Edit to enter the trans fat value.	--
P10-11 CHOLE. (W)	Press Edit to enter the cholesterol value.	--
P10-12 CHOLE. (%)	Press Edit to enter the cholesterol percent.	--
P10-13 SODIUM (W)	Press Edit to enter the sodium value.	--
P10-14 SODIUM (%)	Press Edit to enter the sodium percent.	--
P10-15 TOT. CARB. (W)	Press Edit to enter the total carbohydrates value.	--
P10-16 TOT. CARB. (%)	Press Edit to enter the total carbohydrates percent.	--
P10-17 DIE. FIBER (W)	Press Edit to enter the dietary fiber value.	--
P10-18 DIE. FIBER (%)	Press Edit to enter the dietary fiber percent.	--
P10-19 TOT. SUGAR (W)	Press Edit to enter the total sugar value.	--
P10-20 TOT. SUGAR (%)	Press Edit to enter the total sugar percent.	--
P10-21 ADD. SUGAR (W)	Press Edit to enter the added sugar value.	--
P10-22 ADD SUGAR (%)	Press Edit to enter the added sugar percent.	--
P10-23 PROTEIN (W)	Press Edit to enter the protein value.	--
P10-24 VIT. D (W)	Press Edit to enter the vitamin D value.	--
P10-25 VIT. D (%)	Press Edit to enter the vitamin D percent.	--
P10-26 CALCIUM (W)	Press Edit to enter the calcium value.	--
P10-27 CALCIUM (%)	Press Edit to enter the calcium percent.	--
P10-28 IRON (W)	Press Edit to enter the iron value.	--

Table 6-9. P10 Nutrition

Display	Description	Choices
P10-29 IRON (%)	Press Edit to enter the iron percent.	
P10-30 POTAS. (W)	Press Edit to enter the potassium value.	
P10-31 POTAS. (%)	Press Edit to enter the potassium percent.	
P10-32 NUT. FREE1 (W)	Press Edit to enter the nutrition free 1 value. This can be used for any non-required nutrition data.	
P10-33 NUT. FREE1 (%)	Press Edit to enter the nutrition free 1 percent. This can be used for any non-required nutrition data.	
P10-34 NUT. FREE2 (W)	Press Edit to enter the nutrition free 2 value. This can be used for any non-required nutrition data.	
P10-35 NUT FREE2 (%)	Press Edit to enter the nutrition free 2 percent. This can be used for any non-required nutrition data.	
P10-36 NUT. FREE3 (W)	Press Edit to enter the nutrition free 3 value. This can be used for any non-required nutrition data.	
P10-37 NUT. FREE3 (%)	Press Edit to enter the nutrition free 3 percent. This can be used for any non-required nutrition data.	
P10-38 NUT FREE4 (W)	Press Edit to enter the nutrition free 4 value. This can be used for any non-required nutrition data.	
P10-39 NUT. FREE4 (%)	Press Edit to enter the nutrition free 4 percent. This can be used for any non-required nutrition data.	
P10-40 NUT. FREE5 (W)	Press Edit to enter the nutrition free 5 value. This can be used for any non-required nutrition data.	
P10-41 NUT. FREE5 (%)	Press Edit to enter the nutrition free 5 percent. This can be used for any non-required nutrition data.	

Table 6-9. P10 Nutrition (Continued)

6.9 P11-P13 Extra Message Data 1-3

Program text messages such as ingredients, cooking instructions, country of origin, etc. in Extra Messages 1, 2 and 3. Text messages are linked to a PLU. A label designed to support messages must be used to print the text. The message field(s) must be large enough to print all the text.

Display	Description	Choices
P11-00 XTRA MSG1 P12-00 XTRA MSG2 P13-00 XTRA MSG3	Enter the Extra Message number and press PLU to display desired extra message data.	--
13001-0000 ENT OR CLR	If the extra message is new, the confirmation screen is displayed. Press Enter to add the extra message, or CLR to go back.	--
INP 0001-0000 00	The Text Edit screen is displayed for the selected Extra Message. Edit text according to the procedure described in Section 9.2 on page 86 . Press Enter when editing is complete.	--

Table 6-10. P11 - P13 Extra Message Data 1-3

6.10 P19-Lookup Table

The lookup table feature is not used in the USA.

Display	Description	Choices
P19-00 LOOKUP TBL	Enter the Lookup Table number and press PLU to display desired lookup table data.	--
13001-0000 ENT OR CLR	If the lookup table is new, the confirmation screen is displayed. Press Enter to add the lookup table, or CLR to go back.	--
INP 0001-0000 00	The Text Edit screen is displayed for the selected lookup table number. Edit text according to the procedure described in Section 9.2 on page 86 . Press Enter when editing is complete.	--

Table 6-11. P19 Lookup Table

6.11 P21-Fix Price Symbol

Fixed Price Symbols can be used in the Pieces statement for fixed price PLUs. A singular unit such as “BOX” and a plural unit such as “BOXES” can be added. The Fixed Price Symbol is selected in PLU step P01-01-07 Unit Type found in [Section 6.1 on page 67](#). Refer to step P01-01-07 for the list of default symbols.

Display	Description	Choices
P21-00 F/P SYMBOL	Enter the Fix Price Symbol number and press PLU to display desired fixed price data.	--
13001-0000 ENT OR CLR	If the fix price symbol is new, the confirmation screen is displayed. Press Enter to add the fix price symbol, or CLR to go back.	--
INP 0001-0000 00	The Text Edit screen is displayed for the selected fix price symbol number. Edit text according to the procedure described in Section 9.2 on page 86 . Press Enter when editing is complete.	--

Table 6-12. P21 Fix Price Table

6.12 P37-Check Label

Print labels to verify the PLU information and barcode scanning. Labels may be printed on the backing paper with no setting change required.

Display	Description	Choices
P37-01 START No.	Enter desired start number. Press Enter .	--
P37-02 END No.	Enter desired end number. Press Enter .	--
P37-03 CHECK LABEL	Press Print to check label.	--

Table 6-13. P37 Check Label

6.13 P40-Price Change

Update PLU prices. The old price is displayed along with the new price.

Display	Description	Choices
P40-00 PLU (8 DIGITS)	Enter the PLU number and press PLU to recall an item.	--
P40-01 0.00	Enter the new price and press Enter . The old price is displayed on the right side. To update additional prices enter another PLU number, press PLU and repeat the steps. Press Mode to exit.	--

Table 6-14. P40 Stamp Price Data

7.0 Total Mode

7.1 Enter/Exit Total Mode

Enter **8000** and press **Mode** to enter the Total mode menu. To exit the Total mode, press **Mode**.

To print total reports on continuous paper configure a cassette for "Receipt" in Label Spec step B12-02 Label Type (page 46). Select the cassette before entering the totals mode.



Note The Default password 8000 can be changed in the Setup menu step B31-Mode Access Code (Section 4.18 on page 58).

Total Mode Main Menu Screen

```
< F00 TOTAL >
< CF00 tOTAL >
```

The Total Mode for this device includes the following parameters:

- F05 Daily Total
- F06 Weekly Total
- F07 Cumulative Total
- F12 Total Clear

Use the **Up** and **Down** arrow keys to select a parameter within the Total menu. Press the **Enter** key to enter the parameter. Use the **Up** and **Down** arrow keys to move through the menu options. Use the **Left** and **Right** arrow keys (or key in the corresponding number) to select the appropriate choice.

Example:

1. From the total mode main menu screen, press the **Down** arrow to scroll to **P05 PROD. DAILY TOTAL**.
2. Press **Enter** to enter **P05-01 TOTAL**.
3. Press the **Down** arrow four times to scroll to **P05-05 PLU No**.
4. Enter the PLU number and press **PLU**, then press **PRINT**.
5. Repeat [Step 4](#) as needed.
6. Press **Mode** three times to exit.

```
F05 PROD. DAILY TOTAL
F05 Prod. dAILY tOTAL
```

```
*TOTAL [PRINT]
F05-01 tOTAL [Pr]
```

```
*PLU No [+PLU PRINT]
F05-05 PLU no t[Pr][Pr]
```

7.2 F05-Production Daily Total

Print Production Daily Total at the end of the day to obtain the total of various transactions performed for the day. If the total is not cleared, it will continue to accumulate.

1. Use the **Up** and **Down** arrows to select the desired report.
2. Press **Print** to print the report.

F05 PROD. DAILY TOTAL
F05 Prod. dAILY total

Parameter	Display	Description
F05 Production Daily Total	F05-01 Total	Press Print to print the data.
	F05-02 Hour	Press Print to print the data.
	F05-03 Department	Press Print to print the data.
	F05-04 Group	Press Print to print the data.
	F05-05 PLU Number	Enter a desired PLU number. Press Print to print data.
	F05-10 Rewrap	Press Print to print the data.

Table 7-1. F05 Daily Total Parameters

7.3 F06-Production Weekly Total

Print Production Weekly Total to obtain the total of various transactions performed for the week. If the total is not cleared, it will continue to accumulate.

1. Use the **Up** and **Down** arrows to select the desired report.
2. Press **Print** to print the report.

F06 PROD. WEEKLY TOTAL
F06 Prod. WEEKLY total

Parameter	Display	Description
F06 Production Weekly Total	F06-01 Weekdays	Press Print to print the data.
	F06-02 Sunday	Press Print to print the data.
	F06-03 Monday	Press Print to print the data.
	F06-04 Tuesday	Press Print to print the data.
	F06-05 Wednesday	Press Print to print the data.
	F06-06 Thursday	Press Print to print the data.
	F06-07 Friday	Press Print to print the data.
	F06-08 Saturday	Press Print to print the data.

Table 7-2. F06 Weekly Total Parameters

7.4 F07-Production Cumulative Total

Print Production Cumulative Total to obtain the total of various transactions performed for the current period. If the total is not cleared, it will continue to accumulate.

1. Use the **Up** and **Down** arrows to select the desired report.

Press **Print** to print the report.

F07 PROD. CUM. TOTAL
F07 Prod. Cum. total

Parameter	Display	Description
F07 Production Cumulative Total	F07-01 Total	Press Print to print the data.
	F07-02 Department	Press Print to print the data.
	F07-03 Group	Press Print to print the data.

Table 7-3. F07 Cumulative Total Parameters

7.5 F12-Total Clear

Total Clear operation is used to clear the specified total data.

1. Use the **Up** and **Down** arrows to select the data to be cleared.
2. Press **Zero** to clear the data.

```
F12 TOTAL CLEAR
F 12 tOTAL CLERr
```

Parameter	Display	Description
F12 Total Clear	F12-01 Daily	Press Zero to clear the data.
	F12-02 Weekly	Press Zero to clear the data.
	F12-03 Cumulative	Press Zero to clear the data.

Table 7-4. F12 Total Clear Parameters

3. The confirmation screen is displayed.
4. Press **Enter** to continue, or **CLR** to go back.

```
DELETE CHECK
1200 1-0000 Ent or CLr
```

8.0 Maintenance

8.1 Level Adjustment

CAUTION Ensure the machine is powered off before moving or adjusting the level of the scale.

1. Place the machine on a stable platform.
2. Adjust the inclination of the machine by turning the four level adjustment legs until the spirit bubble is located in the center of the level gauge.
3. Confirm all four legs contact the platform and the scale does not rock side to side.

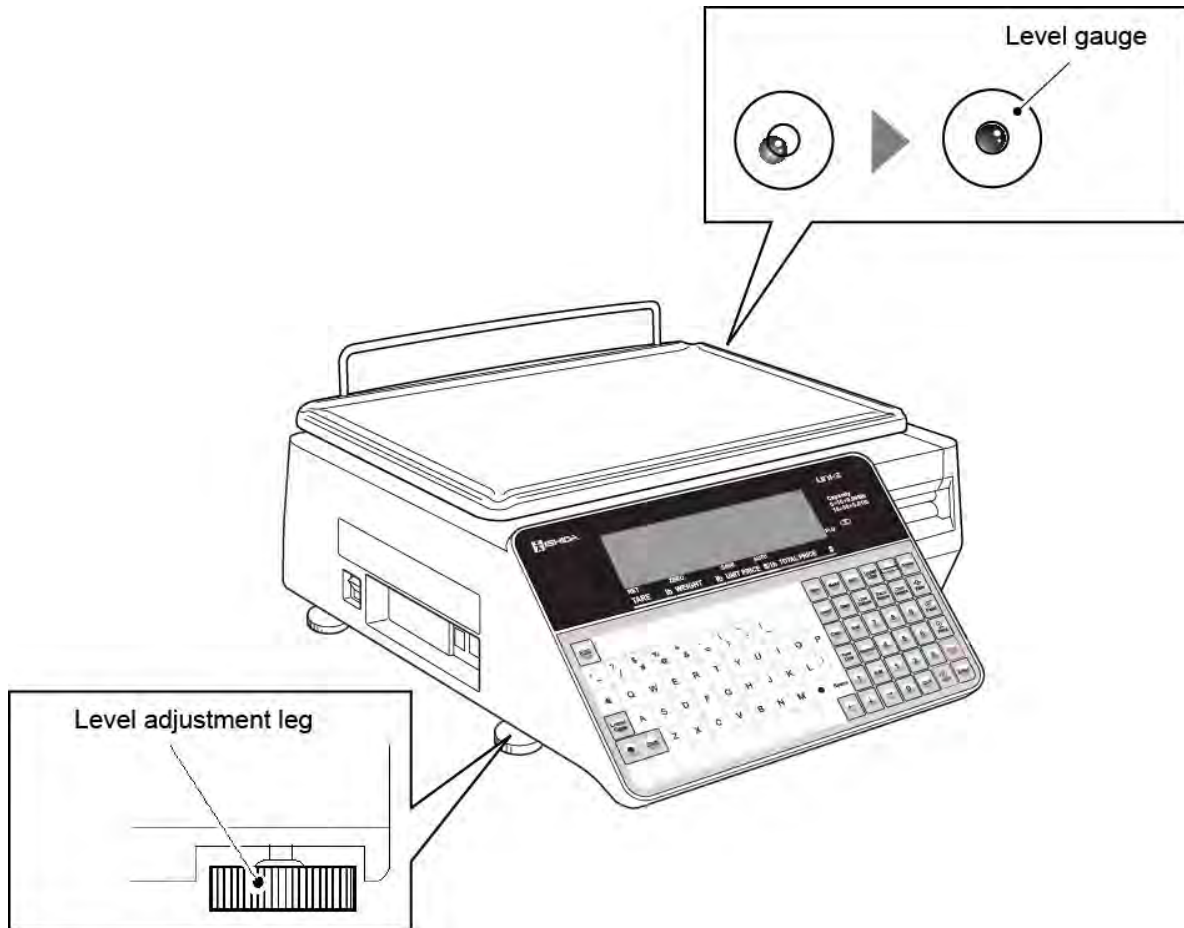


Figure 8-1. Level Adjustment

8.2 Label Roll Loading

CAUTION Ensure the weighing platter is empty prior to starting this procedure.

1. Open the cover on the right side of the main body.

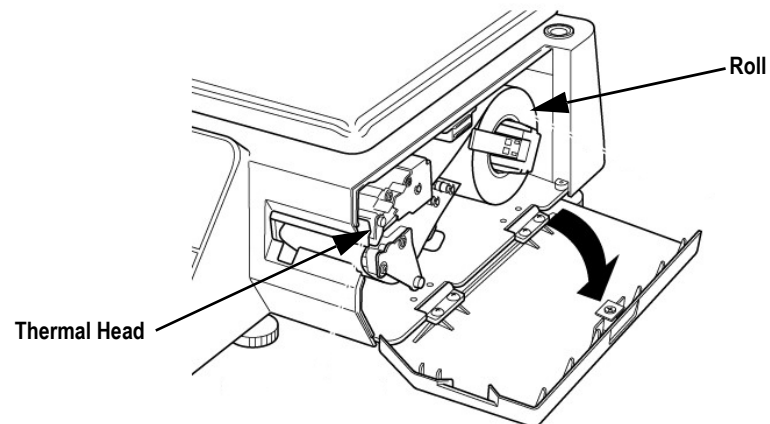


Figure 8-2. Open the Right Cover

2. Slide a new roll around the roll holder.

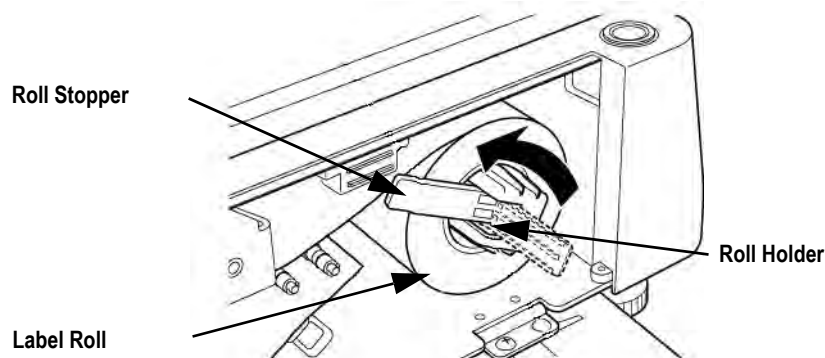


Figure 8-3. Place the New Roll on the Roll Holder

3. Raise the roll stopper to fix the roll position. Set close to the label roll, but not touching, to prevent binding.
4. Lift up on the front side and press down on the back side of the thermal head lever to unlock.

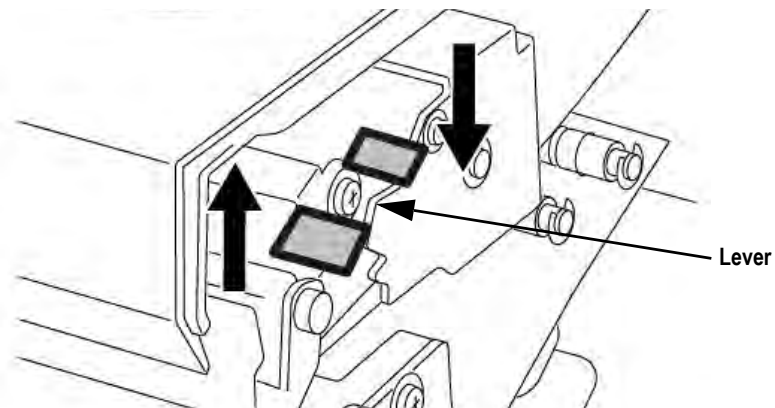


Figure 8-4. Lift the Lever to Unlock the Thermal Head

- Thread the label as shown in [Figure 8-5](#). Be sure the label is set directly on the two white rollers and under the black guide marked as "5" in the diagram.

Label Threading

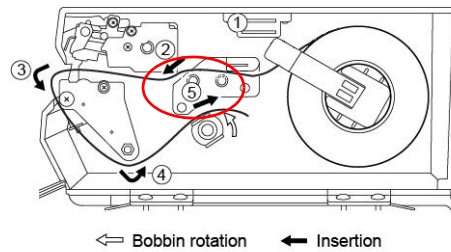


Figure 8-5. Thread Paper

- Fix the paper end with the backing paper stopper.
- Gently turn the winding bobbin counter-clockwise until the backing paper becomes tight.
- Push down the front side of the lever to lock the thermal head.

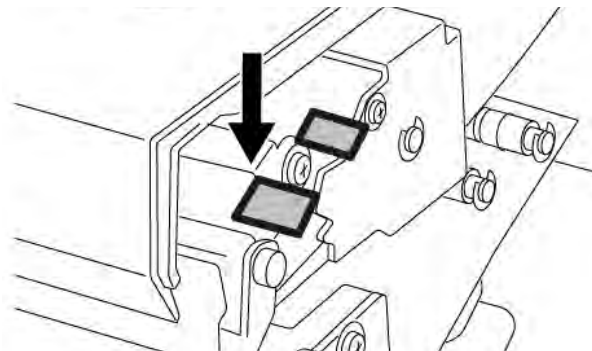


Figure 8-6. Lock the Thermal Head

- Press **Feed** to issue a label. At this time, confirm that the label is completely peeled off.



CAUTION Confirm that the backing paper is wound up smoothly. If the backing paper is wound up diagonally, check that the label is set correctly.

8.3 Removing and Replacing the Weighing Platter

To remove the weighing platter, lift the front side approximately one inch until it is free, then raise the back side.

To replace the weighing platter, set the two back side pins in the rubber platter holders, then lower the front pins into the rubber platter holders.

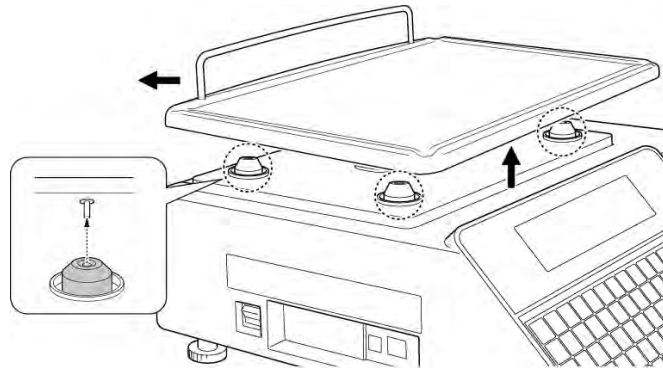


Figure 8-7. Remove Weighing Platter

8.4 Cleaning the Machine

1. Switch off the power.
2. Lift up on the front side and press down on the back side of the thermal head lever to unlock.

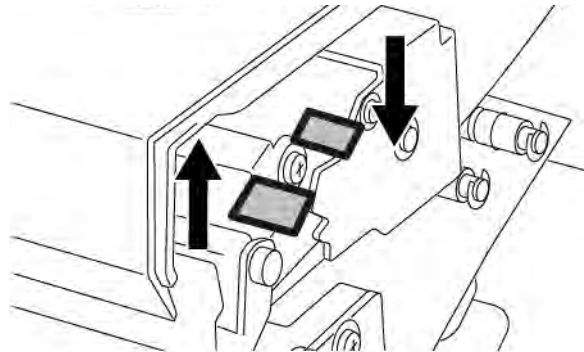


Figure 8-8. Unlock the Thermal Head

3. Use a cotton-tipped swab dipped in isopropyl alcohol to gently clean off the thermal head.



CAUTION Never use a hard or sharp object to clean the thermal head.

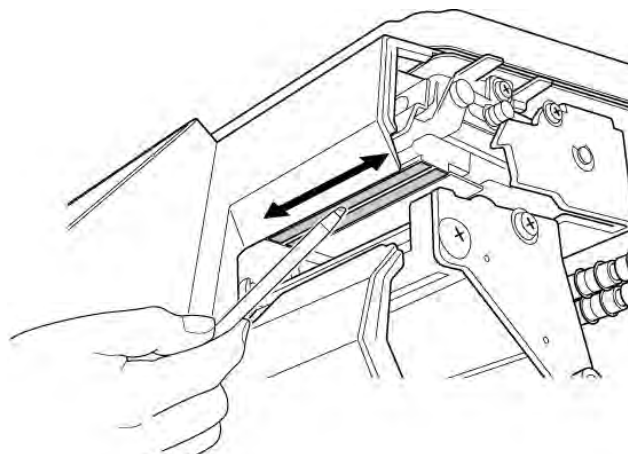


Figure 8-9. Clean Thermal Head

9.0 Appendix

9.1 Error Codes



Note In some cases pressing the Up or Down arrow keys will toggle between the error number and the description.

Error No.	Error	Solution
---	Take Item Off Platter	Remove all objects from the platter before switching on the power. Check that the platter is seated correctly in the four rubber supports. Recalibrate the scale. Replace the load cell.
105	Initialization Failed	Perform memory initialization, see Section 5.5 on page 61
106	Battery is Fault	Verify battery switch is on or replace battery
108	Clock Setting is Not Completed Yet	Set the date and time, see Section 5.1 on page 59
109	Printer 1 Initialization Was Not Done Yet	Initialize the printer, see Section 5.6 on page 61
110	Machine Setting Is Not Completed	Select the machine type, see Section 5.9 on page 65
111	The Display Confirmation Is Not Completed	Perform display check, see Section 5.2 on page 60
112	The Confirmation Of The Key Is Not Completed	Perform key check, see Section 5.3 on page 60
114	The Data Composition Is Different	Initialize the memory, see Section 5.5 on page 61
116	The Country Has Not Been Selected	Select country
202	PLU Master Is Not Programmed	Check PLU number, program if necessary, see Section 6.1 on page 67
219	Store Master Is Not Programmed	Check store number, program if necessary, see Section 6.4 on page 73
223	Label Setting Master Is Not Programmed	Check label number, program if necessary
266-0000	File Input Error	There is a file that failed during input, check USB
266-0001	File Input Error	Failed in reconstruction of SRAM data
267-0000	File Output Error	There is a file that failed during output, check USB
267-0001	File Output Error	Failed in SRAM data backup
268-0000	File Delete Error	There is a master file that failed in deleting
268-0001	File Delete Error	Failed in SRAM delete
268-0002	File Delete Error	Failed in Data delete
268-0003	File Delete Error	There are data that failed in deleting
271	Initialize Error	There is master data that failed in initialization
275	Extra Message 1 not found	The extra message 1 linked to the PLU does not exist; This error message can be disabled at step B18-02-03, see Section 4.12 on page 51
276	Extra Message 2 not found	The extra message 2 linked to the PLU does not exist; This error message can be disabled at step B18-02-04, see Section 4.12 on page 51
277	Extra Message 3 not found	The extra message 3 linked to the PLU does not exist; This error message can be disabled at step B18-02-05, see Section 4.12 on page 51
283	Tare Limit Over (lb)	Re-program tare weight
284	Tare Weight is 0 lb	Set tare weight
312	Label Is Remaining	Remove label or check peel sensor levels in step C07-02 Peel Sensor, see Section 5.6 on page 61
313	Printer Thermal Head Is Up	Put thermal head down
316	Markdown Price Is More Than Original Price	Check price, markdown should be less than original price
321	Price Is Not Programmed	Enter price, program if necessary
342	POS Code Not Found	The PLU barcode value is zero; the label cannot be printed
343	POS Code Not Found	The PLU barcode value is zero; the label will print after the error is cleared

Table 9-1. Error Codes

Error No.	Error	Solution
344	Cassette Setup is Incorrect	Check B12-02 Label Type; set as 1, see Section 4.8 on page 46
347-0000	Thermal Head Is Worn Out	No effect on printing
347-0001	Thermal Head Is Worn Out	Printing is affected, but not the barcode. Change thermal head
347-0002	Thermal Head Is Worn Out	Not printing barcode correctly. Change thermal head
351	Label Is Remaining	Remove label or check peel sensor levels in step C07-02 Peel Sensor, see Section 5.6 on page 61
396	No USB Memory	Check USB memory. Confirm the "Data0x" or "Soft" folder is the only data on the USB memory stick and the folder is unzipped - depending on the process being performed.
703	Printer 1 Has Problem	Printer queue is full. Turn off the scale. Wait 10 seconds
710-0000	No Label For Printer 1	Change label roll
710-0001	No Label For Printer 1	Thermal head is in the up position. Printing cannot resume until the thermal head is locked down
710-0002	No Label For Printer 1	Front cover is open. Close the front cover
711-0000	Label Size Error For Printer 1	Remove label and press feed key
711-0001	Label Size Error For Printer 1	Remove label and press feed key
711-0002	Label Size Error For Printer 1	Remove label and open front cover
713	Too Many Characters On Format For Printer 1, Failed In [*]	Check field and data indicated by [*], increase the field size as needed.
714-0000	Remaining Label On Printer 1	Remove label
714-0001	Remaining Label On Printer 1	Remove label
714-0002	Remaining Label On Printer 1	Remove label
715-0000	Thermal Head Is Worn Out For Printer 1	Change thermal head
715-0001	Thermal Head Is Worn Out For Printer 1	Thermal head is worn, but there is no effect on printing
715-0002	Thermal Head Is Worn Out For Printer 1	Change thermal head
1010	No Label for Printer 1	The label gap sensor did not detect the labels; open the printer door and confirm the labels are threaded correctly and are in the label gap sensor; check and calibrate the label gap sensor (C07-04) as needed, see Section 5.6 on page 61
1011	Label size error	The length of the label does not match the label format; confirm the labels are the correct length; confirm the labels are threaded correctly and are in the label gap sensor; check the length (height) of the label format; check and calibrate the label gap sensor (C07-04) as needed, see Section 5.6 on page 61
1601	Span Adjustment For Scale Is Not Completed	Calibrate the scale; if necessary, initialize the calibration and recalibrate; press the Span button to store the calibration settings before exiting the calibration screen, see Section 5.7 on page 62
1833	Power off	Power off confirmation; press Enter to continue or CLR to quit
13001	Save new data?	Press Enter to save or CLR to quit
11040-0001	Unit price is too large	Reduce the value (number of digits) of the unit price
15029	Reboot check	Power the scale off
19005	Power off	Power the scale off

Table 9-1. Error Codes (Continued)

9.2 Text Editing






















	Used to save and exit after entering text.		Press the Size key to scroll through the available character sizes for the text printed on the label. The size must be selected before text is entered. See Table 9-3 on page 87
	Exit editing a text.		Specify a bold character font style.
	Begin a new line.		Specify an italic character font style.
	Select either lower case or upper case character mode for a text to be entered.		Specify a reverse character font style.
	Enter a space.		Specify an underlined character font style.
	Select either lower case or upper case character mode for the text to be entered. Also to access the secondary symbol on a key.		Specify a normal character font style.
	Insert a character, or select characters by pressing the left or right arrow keys.		Move cursor left.
	Delete a character.		Move cursor right.
	Delete a line of text.		Move cursor to the beginning of a line. Press again to move up to the beginning of the previous line.
	Delete a character to the left of the cursor.		Move cursor to the end of a line. Press again to move down to the end of the next line.
	Copy original data to current data.		

Table 9-2. Text Editing Buttons



Figure 9-1. Operation Panel



Note Highlighted keys are available but not printed on the keyboard.

Font Size Choice	Description
0	10 x 5, 62 characters/line
1	10 x 6, 54 characters/line
2	14 x 7, 48 characters/line
3	20 x 10, 36 characters/line
4	22 x 10, 36 characters/line
5	24 x 12, 31 characters/line
6	28 x 14, 27 characters/line
7	30 x 15, 25 characters/line (default)
8	32 x 15, 25 characters/line
9	34 x 16, 24 characters/line
10	40 x 20, 19 characters/line
11	56 x 28, 14 characters/line
12	60 x 30, 13 characters/line
13	80 x 40, 10 characters/line
14	120 x 60, 7 characters/line

Table 9-3. Available Font Sizes for the Size Button

9.3 Sample Labels



Figure 9-2. Default Label Format 1 (PN 47732, 60 x 44mm)



Figure 9-3. Default Label Format 2 (PN 47733, 64 x 47mm)



Figure 9-4. Default Label Format 3 (PN 47745, 64 x 85mm)



Figure 9-5. Default Label Format 4 (PN 47736, 64 x 59mm)



Figure 9-6. Default Label Format 5 (PN 47762, 64 x 37mm)

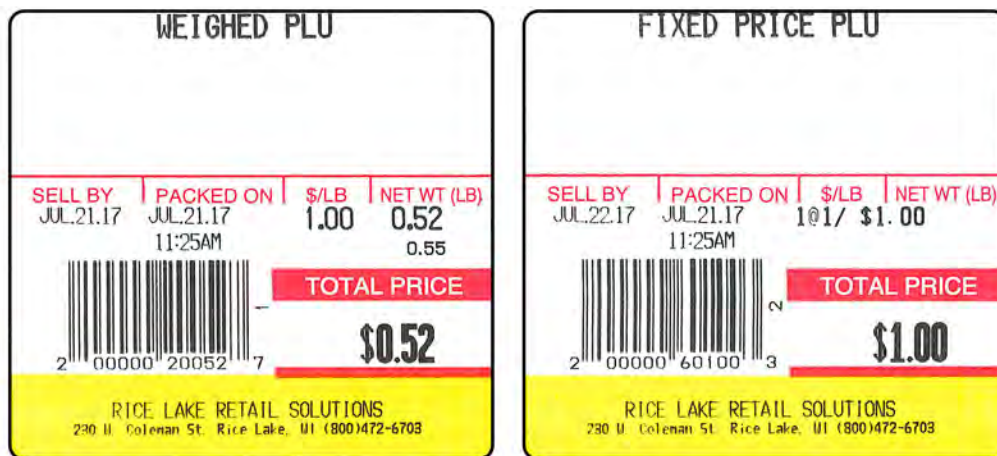


Figure 9-7. Default Label Format 6 (PN 47735, 64 x 59mm)



Figure 9-8. Default Label Format 7 (PN 47743, 64 x 85mm)



Figure 9-9. Default Label Format 8 (PN 47745, 64 x 85mm)

9.4 Label Format Worksheets

The following worksheets are for the default label formats 1 to 8. Refer to [B13-Label Format on page 46](#) for details to move the fields in the format by adjusting the X-axis and Y-axis coordinate values.

The X-axis is the horizontal position with 0 (zero) at the left side of the label. The Y-axis is the vertical position with 0 (zero) at the bottom of the label. The position reference point for each unit is the top left corner. There is an implied decimal point before the last digit. Do not enter the decimal. Example “277” is 27.7mm.



Note To disable a field, set the X-axis value to 9999.



CAUTION Entering values that are out of range will corrupt a label format and prevent it from printing.



The worksheets only pertain to the default label formats. If a label format has been modified using the SLP-5 Lite Maintenance Utility software, the fields and coordinates will no longer match the worksheet.

It is strongly recommended to use the ScaleLink Pro 5 Lite Maintenance Utility software for label format editing. The software is generally the easiest and quickest way to edit a label format.

9.4.1 Label Format 1: 60 x 44-B0785D

<u>Unit No.</u>	<u>X-Axis</u>	<u>Y-Axis</u>	<u>Print ID</u>
0	560	440	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	124	292	Pack Date
3	5	292	Sell By Date
4	139	258	Pack Time
5	9	258	Sell Time
6	250	292	Unit Price
7	260	292	Markdown Unit Price
8	270	257	Pre-Markdown Unit Price
9	429	292	Weight
10	336	140	Total Price
11	347	149	Markdown Price
12	375	110	Pre-Markdown Price
13	300	79	PLU Number
14	0	430	Product Name
15	15	40	Store Address
16	15	68	Store Name
17	277	247	Weight Unit(lb/oz)
18	481	213	Fixed Weight (grams)
19	0	315	Title - Weighed "SELL BY PACKED ON PRICE(\$/LB) WEIGHT (LB)"
20	0	315	Title - Fixed Price "SELL BY PACKED ON"
21	378	175	Title - Weighed "TOTAL PRICE"
22	0	315	Title - FP+Weigh "SELL BY PACKED ON WEIGHT (LB)"
23	6	221	Barcode
24	323	292	PCS/@
25	378	175	Title - Fixed Price "TOTAL PRICE"
26	378	175	Title - FP+Weigh "TOTAL PRICE"
27	474	250	Tare

Table 9-4. Label Format 1 60-44-B0785D

9.4.2 Label Format 2: 64 x 47 Standard UPC

Unit No.	X-Axis	Y-Axis	Print ID
0	560	470	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	0	243	Barcode
3	149	312	Pack Date
4	6	312	Sell By Date
5	157	278	Pack Time
6	13	278	Sell Time
7	292	312	Unit Price
8	292	312	Markdown Unit Price
9	302	273	Pre-Markdown Unit Price
10	449	312	Weight
11	336	160	Total Price
12	347	168	Markdown Price
13	375	127	Pre-Markdown Price
14	290	99	PLU Number
15	3	466	Product Name
16	15	40	Store Address
17	15	68	Store Name
18	277	262	Weight Unit (lb/oz)
19	481	228	Fixed Weight (grams)
20	0	335	Title - FP+Weigh "SELL BY PACKED ON WEIGHT (LB) "
21	0	335	Title - Weighed "SELL BY PACKED ON \$/LB WEIGHT (LB) "
22	0	335	Title - Fixed Price "SELL BY PACKED ON"
23	378	195	Title - FP+Weigh "TOTAL PRICE"
24	378	195	Title - Weighed "TOTAL PRICE"
25	378	195	Title - Fixed Price "TOTAL PRICE"
26	323	312	PCS/@
27	474	267	Tare

Table 9-5. Label Format 2 64 x 47 - Standard UPC

9.4.3 Label Format 3: 64 x 85 Safe Handling

Unit No.	X-Axis	Y-Axis	Print ID
0	560	850	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	0	243	Barcode
3	149	312	Pack Date
4	6	312	Sell By Date
5	157	278	Pack Time
6	13	278	Sell Time
7	292	312	Unit Price
8	292	312	Markdown Unit Price
9	302	273	Pre-Markdown Unit Price
10	449	312	Weight
11	336	160	Total Price
12	347	168	Markdown Price
13	375	127	Pre-Markdown Price
14	290	99	PLU Number
15	0	841	Product Name
16	15	40	Store Address
17	15	68	Store Name
18	277	262	Weight Unit (lb/oz)
19	481	228	Fixed Weight (grams)
20	0	335	Title - FP+Weigh "SELL BY PACKED ON WEIGHT (LB)"
21	0	335	Title - Weighed "SELL BY PACKED ON \$/LB WEIGHT (LB)"
22	0	335	Title - Fixed Price "SELL BY PACKED ON"
23	378	195	Title - FP+Weigh "TOTAL PRICE"
24	378	195	Title - Weighed "TOTAL PRICE"
25	378	195	Title - Fixed Price "TOTAL PRICE"
26	323	312	PCS/@
27	474	267	Tare
28	20	659	Logo Image = 1: Safe Handling

Table 9-6. Label Format 3: 64 x 85 Safe Handling

9.4.4 Label Format 4: 64 x 59 Safe Handling

Unit No.	X-Axis	Y-Axis	Print ID
0	560	590	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	0	185	Barcode
3	411	232	Pack Date
4	412	263	Sell By Date
5	162	244	Unit Price
6	0	244	Weight
7	347	128	Total Price
8	358	141	Markdown Price
9	387	103	Pre-Markdown Price
10	305	96	PLU Number
11	0	580	Product Name
12	4	40	Store Address
13	4	68	Store Name
14	182	244	Markdown Unit Price
15	192	211	Pre-Markdown Unit Price
16	474	171	Tare
17	13	244	PCS/@

Table 9-7. Label Format 4: 64 x 59 Safe Handling

9.4.5 Label Format 5: 64 x 37 Non-UPC

Unit No.	X-Axis	Y-Axis	Print ID
0	560	370	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	5	224	Pack Date
3	5	166	Sell By Date
4	124	224	Unit Price
5	124	224	Markdown Unit Price
6	134	189	Pre-Markdown Unit Price
7	260	224	Weight
8	336	187	Total Price
9	347	192	Markdown Price
10	375	153	Pre-Markdown Price
11	265	120	PLU Number
12	0	360	Product Name
13	15	40	Store Address)
14	15	68	Store Name
15	8	137	Weight Unit (lb/oz)
16	211	168	Fixed Weight (grams)
17	0	252	Title - Weighed "PACKED ON PRICE(\$/LB) WEIGHT (LB)"
18	0	252	Title - Fixed Price "PACKED ON"
19	378	248	Title - Weighed "TOTAL PRICE"
20	0	252	Title - FP+Weigh "PACKED ON WEIGHT (LB)"
21	162	224	PCS/@
22	378	248	Title - Fixed Price "TOTAL PRICE"
23	378	248	Title - FP+Weigh "TOTAL PRICE"
24	6	120	Tare
25	10	191	Title - Weighed "SELL BY"
26	10	191	Title - Fixed Price "SELL BY"
27	10	191	Title - FP+Weigh "SELL BY"

Table 9-8. Label Format 5: 64 x 37 Non-UPC

9.4.6 Label Format 6: 64 x 59 Extended Text

<u>Unit No.</u>	<u>X-Axis</u>	<u>Y-Axis</u>	<u>Print ID</u>
0	560	590	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	0	243	Barcode
3	149	312	Pack Date
4	6	312	Sell By Date
5	157	278	Pack Time
6	13	278	Sell Time
7	292	312	Unit Price
8	292	312	Markdown Unit Price
9	302	273	Pre-Markdown Unit Price
10	449	312	Weight
11	336	160	Total Price
12	347	168	Markdown Price
13	375	127	Pre-Markdown Price
14	290	99	PLU Number
15	0	563	Product Name
16	15	40	Store Address
17	15	68	Store Name
18	277	262	Weight Unit (lb/oz)
19	481	228	Fixed Weight (grams)
20	0	335	Title - FP+Weigh "SELL BY PACKED ON WEIGHT (LB) "
21	0	335	Title - Weighed "SELL BY PACKED ON \$/LB WEIGHT (LB) "
22	0	335	Title - Fixed Price "SELL BY PACKED ON"
23	378	195	Title - FP+Weigh "TOTAL PRICE"
24	378	195	Title - Weighed "TOTAL PRICE"
25	378	195	Title - Fixed Price "TOTAL PRICE"
26	323	312	PCS/@
27	474	267	Tare
28	0	463	Extra Message 1

Table 9-9. Label Format 6: 64 x 59 Extended Text

9.4.7 Label Format 7: 64 x 85 Extended Text

Unit No.	X-Axis	Y-Axis	Print ID
0	560	850	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	0	243	Barcode
3	149	312	Pack Date
4	6	312	Sell By Date
5	157	278	Pack Time
6	13	278	Sell Time
7	292	312	Unit Price
8	292	312	Markdown Unit Price
9	302	273	Pre-Markdown Unit Price
10	449	312	Weight
11	336	160	Total Price
12	347	168	Markdown Price
13	375	127	Pre-Markdown Price
14	290	99	PLU Number
15	1	814	Product Name
16	15	40	Store Address
17	15	68	Store Name
18	277	262	Weight Unit (lb/oz)
19	481	228	Fixed Weight (grams)
20	0	335	Title - FP+Weigh "SELL BY PACKED ON WEIGHT (LB)"
21	0	335	Title - Weighed "SELL BY PACKED ON \$/LB WEIGHT (LB)"
22	0	335	Title - Fixed Price "SELL BY PACKED ON"
23	378	195	Title - FP+Weigh "TOTAL PRICE"
24	378	195	Title - Weighed "TOTAL PRICE"
25	378	195	Title - Fixed Price "TOTAL PRICE"
26	323	312	PCS/@
27	474	267	Tare
28	0	694	Extra Message 1

Table 9-10. Label Format 7: 64 x 85 Extended Text

9.4.8 Label Format 8: 64 x 85 Reduced Safe Handling

Unit No.	X-Axis	Y-Axis	Print ID
0	560	850	Label Dimension (Do not change)
1	--	--	Label Format Name (Used by SLP-5)
2	0	243	Barcode
3	149	312	Pack Date
4	6	312	Sell By Date
5	157	278	Pack Time
6	13	278	Sell Time
7	292	312	Unit Price
8	292	312	Markdown Unit Price
9	302	273	Pre-Markdown Unit Price
10	449	312	Weight
11	336	160	Total Price
12	347	168	Markdown price
13	375	127	Pre-Markdown Price
14	290	99	PLU Number
15	0	817	Product Name
16	15	40	Store Address
17	15	68	Store Name
18	277	262	Weight Unit(lb/oz)
19	481	228	Fixed Weight (grams)
20	0	335	Title - FP+Weigh "SELL BY PACKED ON WEIGHT (LB) "
21	0	335	Title - Weighed "SELL BY PACKED ON \$/LB WEIGHT (LB) "
22	0	335	Title - Fixed Price "SELL BY PACKED ON"
23	378	195	Title - FP+Weigh "TOTAL PRICE"
24	378	195	Title - Weighed "TOTAL PRICE"
25	378	195	Title - Fixed Price "TOTAL PRICE"
26	323	312	PCS/@
27	474	267	Tare
28	20	552	Logo Image = 2: Reduced Safe Handling
29	0	716	Extra Message 1

Table 9-11. Label Format 8: 64 x 85 Reduced Safe Handling

9.5 Specifications

Items	Descriptions
Use Conditions	Temperature: 23 to 104°F (-5 to 40°C) Humidity: 30 to 85%, non-condensing.
Power supply / power consumption	AC100 – 120V / 1.0A
Weighing capacity scale interval	0 to 30 x 0.01 lb
Weighing accuracy	1/3000
Operator/customer display	16 segments x 23 digits, liquid crystal with backlight
Printing method	Direct thermal method
Thermal head	2.2 inch (56 mm) and 8 dots/mm
Printing speed	3.9 inch (100 mm) / second
Label size	Label width: 38 mm to 64 mm Label length: 30 mm to 175 mm
Number of label cassettes	Non-cassette
Input/output	LAN 1 channel USB 1 channel
Program store medium	Flash ROM (32M bytes)

Table 9-12. Specifications



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