

Procedure to install new WM-Micro firmware

Refer to the appropriate *Service Manual* for additional information.

1. Copy the firmware folder "Soft" onto an empty USB memory stick.
 - The "Soft" folder itself must not be zipped even if some files in the folder are.
 - The "Soft" folder must be the only data on the USB memory stick.
2. Power up the machine. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
3. Press the green **ENTER** button at the Date/Time confirm screen.
4. Remove the access panel located at the top rear of the printer assembly.
5. Insert the USB memory stick into any of the four USB ports.
 - No other USB devices should be connected.
6. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
7. Enter the **Service Password** and press the **PLU** key to access hidden menu steps.
8. Press the **ADJUST** menu button.
9. Select **DOWNLOAD**.
10. Select the firmware version to be installed. It will be highlighted in yellow.
11. Press **EXEC** to confirm the selection.

Note: If message *15036-0000 Database Version Is Different* is displayed a memory clear will be required after installing the firmware. Press **STOP** and make a USB backup (Setup menu > File Save/Load) if necessary, otherwise press **EXEC** to continue.
12. Press **EXEC** to begin the firmware download.
13. The screen will show the firmware download progress. The download will take several minutes to complete.
14. When Re-Boot Check message 15029 is displayed, the firmware download is complete.
15. The wrapper will automatically reboot.
16. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
17. Press the green **ENTER** button at the Date/Time confirm screen.
18. If prompted enter the Adjust menu and perform a Master Data memory clear. Then enter the Setup menu and load the backup from step 11.
19. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
20. Enter the **Service Password** and press the **PLU** key to access hidden menu steps.
21. Press the **ADJUST** menu button, then select **DOWNLOAD**.
22. Press the **SUB APP** tab.
23. Select the program to be installed. It will be highlighted in yellow. Select only one Sub App program at a time.
24. Press **EXEC** to confirm the selection. Press **EXEC** to begin the firmware download.
25. The screen will show the firmware download progress. The download may take several minutes to complete.
26. When Re-Boot Check message 15029 is displayed, the firmware download is complete.

Note: The Pack Machine sub-app does not display message 15029 when complete.
27. If the wrapper does not automatically reboot then power off the wrapper. Wait 30 seconds and switch on the power.
28. On the wrapper press the yellow **RETURN** button at the 0322 Go Back to Original Position screen to return all mechanical components to their home position.
29. Press the green **ENTER** button at the Date/Time confirm screen.
30. Repeat steps 19 ~ 28 to load any remaining Sub App and Sub Boot programs as needed.
31. Remove the USB memory stick.

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES

WM-Micro Compact Wrapper

Table of Contents

Procedure to install new WM-Micro firmware	1
Table of Contents.....	2
Version C2591A.....	2
Version C2591	5

Version C2591A

Release Date: November 2025

Use with SLP-5 **2.64** or later (strongly recommended for compatibility)

<u>Related Programs</u>	<u>P-1180B CPU</u>	<u>P-1180C CPU</u>
Main:	C2592A	C2592A
Scale Driver:	J0834 (J0835)	J0834 (J0835)
OS:	J1180	J1180
BOOT:	J1072C	J1072C
FPGA App.:	J1058C	J1163
Keyboard:	J0823B	J0823B
Scale:	J0776L or later	J0776L or later
Wrap App.:	J1183C (J1106C)	J1183C (J1106C)
Printer App:	B0821	B0821

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), and FPGA sub-app and sub-boot programs one at a time as needed. If the wrapper does not automatically reboot then power down the wrapper after each sub app download. Wait 30 seconds and switch on the power.



Caution

Memory initialization may be required when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from firmware **C0813C** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). **[8.5.2591.0]**

The following lists the main changes from the previous version (C2591)

1. Added support for WPA2-PSK TKIP encryption in the WiFi configuration tab.
2. Changed the description and spelling of error 14038-0007.

Original:

WiFi SETUP COMMUNICATION ERROR HAS OCCURED. PLEASE CHECK CONNECTION WITH WIPORT.

Updated:

WiFi SETUP COMMUNICATION ERROR HAS OCCURRED. PLEASE CHECK CONNECTION WITH WIRELESS MODULE.

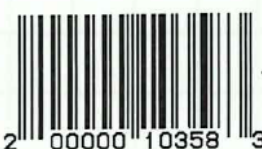
C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES

WM-Micro Compact Wrapper

3. Fixed a bug where the wrapper could display lift motor errors if wrapping was attempted immediately after exiting standby mode. This was resolved by increasing the startup wait time for the lift motor from 400ms to 3000ms.
4. Added a "Markup Ratio" setting to the Frequent Shopper menu (Setup menu). This is applicable for Cost+10% or similar customers.
 - a. The Total Price markup calculation is: $\text{Total Price} + (\text{Total Price} \times \text{Markup Ratio} [\%]) - 0.0049$.
 - b. Round any one hundredths of a penny [third digit after the decimal] 0.0050 and higher to the next higher penny, 0.0049 or lower to the next lower penny.
 - c. The following examples show the markup and rounding for 10%.
 - i. Total Price is \$3.00
 - $3.00 + (3.00 \times 0.1) - 0.0049 = 3.2951$
 - Round UP to \$3.30
 - ii. Total Price is \$2.09
 - $2.09 + (2.09 \times 0.1) - 0.0049 = 2.2941$
 - Round DOWN to \$2.29
 - d. Four prices are available for Weighed items: the original price (cost) and the +10% markup price (consumer price) for both Total Price and Unit Price. Two prices are available for Fixed Price items: the original price (cost) and the 10% markup price (consumer price) for Total Price.
 - e. For Weighed items the markup Unit Price is calculated based on the weight.
 - f. The original price prints in the barcode. The POS calculates the markup as the consumer price.
 - g. Campaign PLUs designated as either Unit Price (Weighed items) or Fixed Price (Fixed Price items) support the Markup Ratio.
 - h. The Markup Ratio is available as 0% (default) to 99.9%.
5. Added two Print ID fields:
 - a. 256 (598 in SLP-5): +10% Total Price
 - b. 257 (599 in SLP-5): +10% Unit Price (calculated from dividing +10% Total Price by weight)
6. SLP-5 must be updated to support the two new Print ID fields. The new Print IDs are added as follows:
 - a. Open SLP-5 Setup Utility program.
 - b. From the Configuration menu, select **General Settings**.
 - c. Select the **Supported Functions** tab.
 - d. In the **General Operations** window, check Advanced Configuration Setting, click **OK**.
 - e. Close and reopen the Setup Utility program.
 - f. From the Configuration menu, select **Label Format**.
 - g. Double click "WM-MICRO".
 - h. In the Label Format Data window click the **Print ID Setup** button.
 - i. Click the **New** button.
 - j. Enter the following settings for the new Total Price +10% field:

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES
WM-Micro Compact Wrapper

- i. Name = Total Price +10%
 - ii. Short Name = T.P. +10%
 - iii. Code = 598
 - iv. Special Meaning = None
 - v. Unit Type = Numeric
 - vi. Click **OK**.
- k. Enter the following settings for the new Unit Price +10% field:
- vii. Name = Unit Price +10%
 - viii. Short Name = U.P. +10%
 - ix. Code = 599
 - x. Special Meaning = None
 - xi. Unit Type = Numeric
 - xii. Click **OK**.
- l. Click the **Close** button, click the **Save** button, Click the **Close** button.

RIB STEAK			
Sell By	Packed On	Cost (\$/lb)	Weight (lb)
NOV.27.25	NOV.26.25	1.23	2.910
	9:56AM	Price (\$/lb)	0.000
		1.35	
		TOTAL COST	
		\$3.58	
		TOTAL PRICE	
		\$3.93	
RICE LAKE RETAIL SOLUTIONS			
WM-MICRO C2591A			

Weighed PLU

MAINE LOBSTER			
FRESH DAILY			
Sell By	Packed On		
NOV.28.25	NOV.26.25		
	9:57AM		1 PC
		TOTAL COST	
		\$4.50	
		TOTAL PRICE	
		\$4.95	
RICE LAKE RETAIL SOLUTIONS			
WM-MICRO C2591A			

Fixed Price PLU

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES

WM-Micro Compact Wrapper

The screenshot shows the 'Edit Print ID' dialog box. The 'Name' field is 'Total Price +10%', 'Short Name' is 'T.P. +10%', 'Code' is '598', 'Special Meaning' is 'None', and 'Unit Type' is 'Numeric'. There are 'OK' and 'Cancel' buttons at the bottom.

SLP-5 Total Price +10%

The screenshot shows the 'Edit Print ID' dialog box. The 'Name' field is 'Unit Price +10%', 'Short Name' is 'U.P. +10%', 'Code' is '599', 'Special Meaning' is 'None', and 'Unit Type' is 'Numeric'. There are 'OK' and 'Cancel' buttons at the bottom.

SLP-5 Unit Price +10%

Version C2591

Release Date: April 2025

Use with SLP-5 **2.64** or later ([strongly recommended](#) for compatibility)

Related Programs	<u>P-1180B CPU</u>	<u>P-1180C CPU</u>
Main:	C2592	C2592
Scale Driver:	J0834 (J0835)	J0834 (J0835)
OS:	J1180	J1180
BOOT:	J1072C	J1072C
FPGA App.:	J1058C	J1163
Keyboard:	J0823B	J0823B
Scale:	J0776L or later	J0776L or later
Wrap App.:	J1183B (J1106C)	J1183B (J1106C)
Printer App:	B0821	B0821

NOTES:

- After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), and FPGA sub-app and sub-boot programs one at a time as needed. If the wrapper does not automatically reboot then power down the wrapper after each sub app download. Wait 30 seconds and switch on the power.



Caution

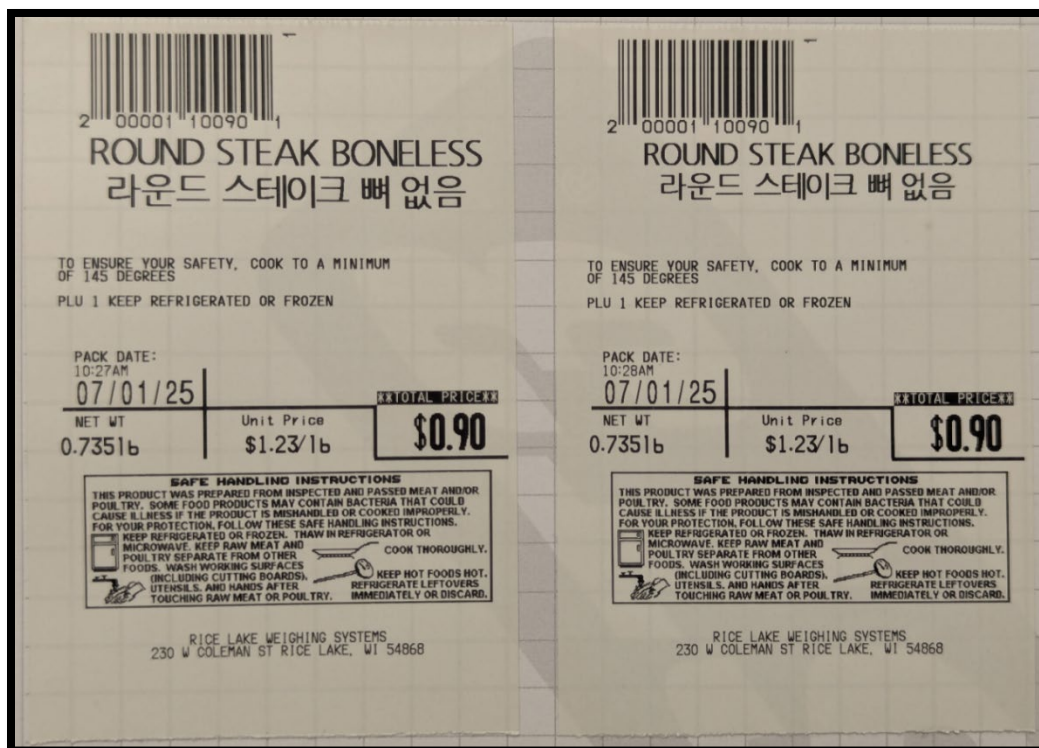
Memory initialization may be required when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from firmware **C0813C** or an earlier version. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear** (Adjust menu > Memory Clear) & **System Data Init.** (Setup menu > File Save/Load > Scale Init. tab). **[8.5.813.0]**

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES

WM-Micro Compact Wrapper

The following lists the main changes from the previous version (B0813G)

- Added support to display and print Korean, and traditional Chinese characters.
Note: Korean, and Chinese characters cannot be entered at the WM-Micro. They must be entered using SLP-5 configured to support Korean, and Chinese and sent to the WM-Micro.
- Added the following external true type fonts for label printing. The fonts can be added in SLP-5 at the following location: Setup Utility > Label Format > WM-Micro > Unit Properties Setup > Font Family.
Note: The following fonts have been added by default to the WM-Micro label format configuration in SLP-5 version 2.65 or later.
 - 48: NANUMGOTHIC FULL <TTF> (At the WM-Micro: 030)
 - 160: NANUMGOTHIC HALF <TTF> (At the WM-Micro: 0A0)
 - 32: BIG5 <TTF> (At the WM-Micro: 020)
 - 33: BIG5 BOLD <TTF> (At the WM-Micro: 021)
 - 144: BIG5 HALF <TTF> (At the WM-Micro: 090)
 - 145: BIG5 BOLD HALF <TTF> (At the WM-Micro: 091)
- To print the Korean, or Chinese fonts in the PLU description, use the following label format fields. See sample labels below.
 - Font Size: Ext. Font
 - Font Height: Set as needed. Typical values are 24~38.
 - Font Family: Select from the list in step 2.
- Korean characters are displayed in operation mode as 48: NANUMGOTHIC FULL <TTF> font.



Ext. Font, NANUMGOTHIC FULL
Font Height = 38 (SLP-5), 26 [Hex] (Micro)

Ext. Font, NANUMGOTHIC FULL
Font Height = 32 (SLP-5), 20 [Hex] (Micro)

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES
WM-Micro Compact Wrapper

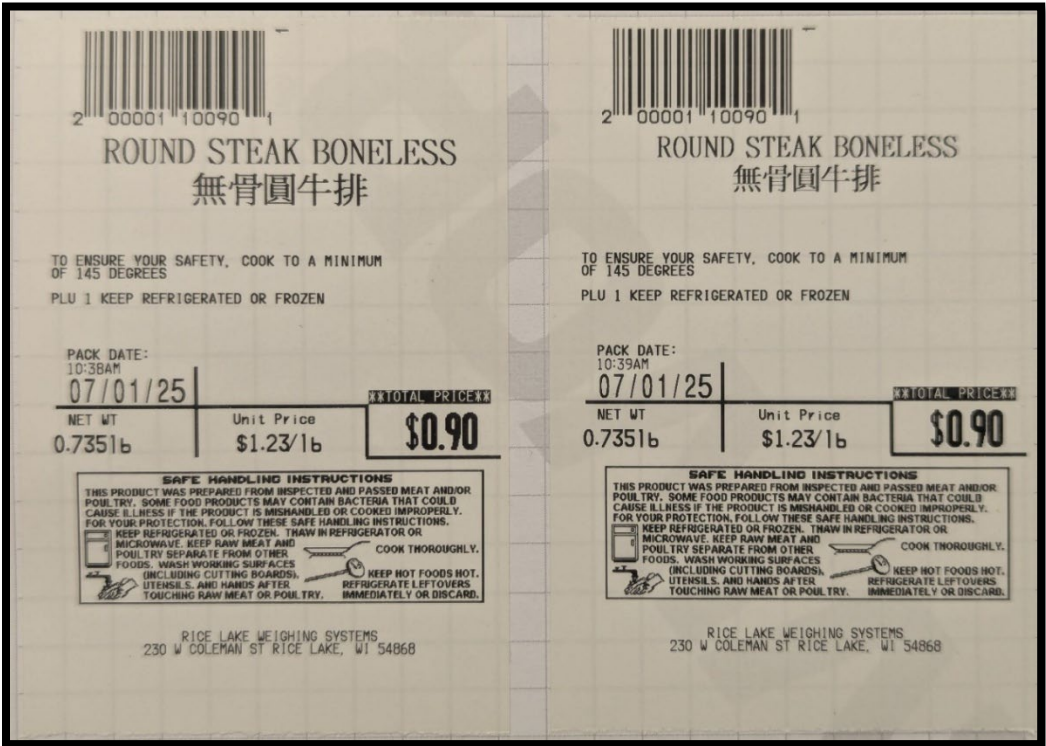
PREPACK / PLU 1				JUL.01.2025 (TUE) 10:30AM	
ROUND STEAK BONELESS 라운드 스테이크 뼈 없음					
TARE	lb	NET WT	lb	UNIT PRICE	\$/lb
0.015		0.740		1.23	
				TOTAL PRICE	\$
				0.91	
QUICK KEYS	PRESETS	OPERATION VIDEO		REWRAP	FILM FEED
PACK DATE		SELL BY DATE	TRAINING VIDEOS	TODAY	
JUL.01.2025				PLU SEARCH	
	1	TRAY 4:4D	TEMP	1	WRAP MODE
PRICE	\$ 1.23		MANAGER MODE	PACK COUNT	W/L
SYMB.			FEED LABEL	0	
TRAY	0004		CALC.	HEATER OFF	LAST DOWNLOAD
CHANGE LABELS	CLEANING		TRAY	VOLUME	JUL.01.2025 (TUE) 10:18AM
				NONE	
				RETURN	▼

Capacity 0-15 lb x 0.005 lb 15-30 lb x 0.01 lb

WM-Micro Screen with Korean Characters

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES
WM-Micro Compact Wrapper

5. Chinese characters are displayed in operation mode as 32: BIG5 <TTF> font.



Ext. Font, BIG5
Font Height = 38 (SLP-5), 26 [Hex] (Micro)

Ext. Font, BIG5
Font Height = 32 (SLP-5), 20 [Hex] (Micro)

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES
WM-Micro Compact Wrapper

PREPACK / PLU 1 JUL.01.2025 (TUE) 10:40AM

ROUND STEAK BONELESS
無骨圓牛排

TARE	lb	NET WT	lb	UNIT PRICE	\$/lb	TOTAL PRICE	\$
0.025		0.735		1.23		0.90	

QUICK KEYS PRESETS

PACK DATE
JUL.01.2025

SELL BY DATE

PRICE \$ 1.23

SYMB.

TRAY 0004

CHANGE LABELS

TRAY
4:4D

TEMP

MANAGER MODE

CALC.

TRAY

OPERATION VIDEO

TRAINING VIDEOS

FEED LABEL

RUN TOTAL

VOLUME NONE

REWRAP TODAY

PLU SEARCH
1

PACK COUNT
1

HEATER OFF

RETURN

FILM FEED

WRAP MODE

LABEL

LAST DOWNLOAD
JUL.01.2025 (TUE)
10:37AM

Capacity 0-15 lb x 0.005 lb 15-30 lb x 0.01 lb

WM-Micro Screen with Chinese Characters

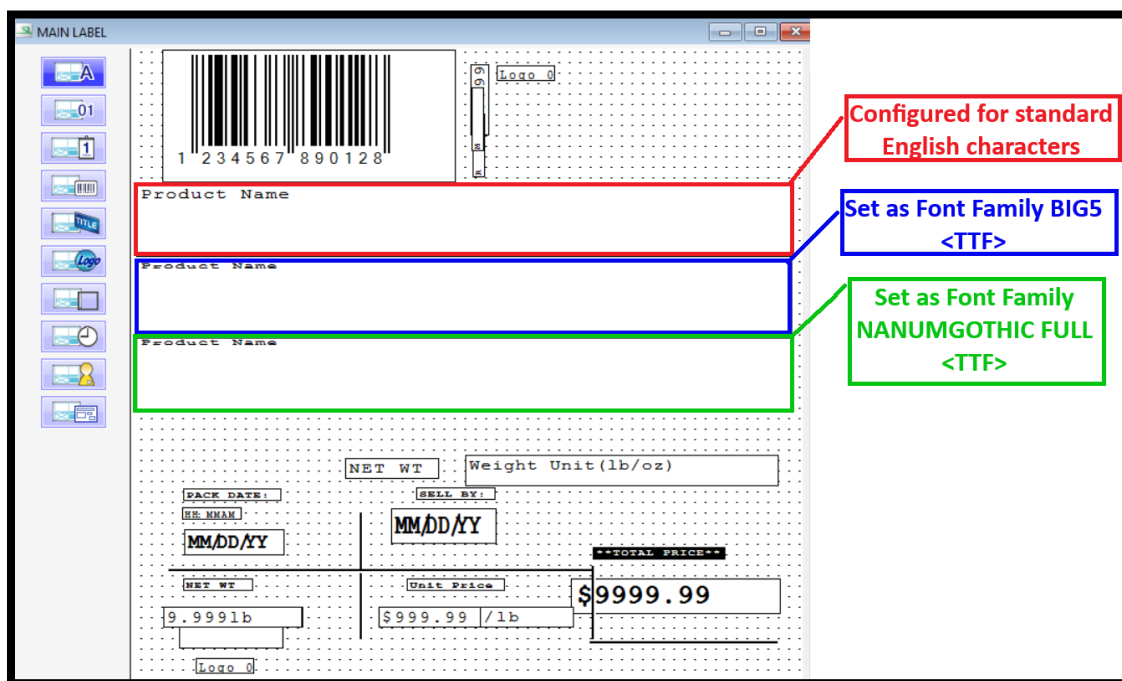
6. Added support for displaying multiple product names in different language fonts. Please note the following limitations and guidelines:
- Note:** This is only required when both Chinese and Korean must be printed for the product name. In all other cases, English may be combined with one additional language in the same product description field.
- Korean, and Traditional Chinese characters cannot be printed together on the same line.
 - When using multiple languages (e.g., English, Korean, and Traditional Chinese) for product names, each language must be entered on a separate line in SLP-5.
 - The label format must include multiple product description fields using the "TXT CONTINUOUS: REFERENCE" unit type - one for each language.
 - Product name fields must be created in the desired display order.
- Example:** If the order should be English, Chinese, then Korean, the fields must be added in that exact sequence. This order must also match when entering the product name on SLP-5.
- Multiple product names and label format example below.

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES

WM-Micro Compact Wrapper



English, Ext. Font, BIG5, and Ext. Font, NANUMGOTHIC FULL



Product name fields using the "TXT CONTINUOUS: REFERENCE" unit type—one for each language

C2591x KOREAN & CHINESE FIRMWARE RELEASE NOTES
WM-Micro Compact Wrapper



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11 / 11

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