

C2244x KOREAN FIRMWARE RELEASE NOTES

WM-Ai & WM-Ai-P Auto Wrappers and IP-Ai Pre-Pack Scale

Procedure to install new WM-Ai / IP-Ai 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. WM-Ai: Remove the access panel located on the upper right side behind the display.
IP-Ai: Remove the plastic cover on the upper left.
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 **495344** 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. WM-Ai: Power off the wrapper. Wait 30 seconds and switch on the power.
IP-Ai: The scale 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 10.
19. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
20. Enter **495344** 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.
27. WM-Ai: Power off the wrapper. Wait 60 seconds and switch on the power.
IP-Ai: The scale will automatically reboot.
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.

Note: Firmware C2244x does not support 2020 Nutrition.

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Version C2244C features & changes [January 2019]

Use with SLP-5 **2.30e** or later (**strongly recommended** for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main:	C2245C
Scale Driver:	J0834 (J0835)
OS:	J0829E
BIOS:	J0825
FPGA App.:	J0910B (J0824)
Keyboard:	J0823B
Scale:	J0776G or later
Wrap App.:	C2006R (J0860A)
Camera App.:	J0884D (J0846)
Printer App:	
WM-Ai:	J0909F (J0827)
IP-Ai:	J0911A (J0827)
Pop Printer App.:	J0949C (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. The IP-Ai must be powered off and on after loading the main firmware and sub-apps for the Korean characters to display and print correctly.



Caution

Memory initialization **may be required** when installing this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from any version of firmware **C2150x**. 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). **[8.5.0.1]**

The following lists the main changes from the previous version (C2244B)

1. Fixed a bug where large trays wrapped at low speed with a pop label would stop infeeding and wrapping.

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Version C2244B features & changes [May 2018]

This version was not released for the USA as there were no relevant changes.

Version C2244A features & changes [March 2018]

Use with SLP-5 **2.20L** or later (**strongly recommended** for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main:	C2245A
Scale Driver:	J0834 (J0835)
OS:	J0829E
BIOS:	J0825
FPGA App.:	J0910B (J0824)
Keyboard:	J0823B
Scale:	J0776G or later
Wrap App.:	C2006R (J0860A)
Camera App.:	J0884D (J0846)
Printer App:	
WM-Ai:	J0909F (J0827)
IP-Ai:	J0911A (J0827)
Pop Printer App.:	J0949C (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. Wrapper (Pack Machine), Camera, and Printer (EC) sub-apps have changed.
3. The IP-Ai must be powered off and on after loading the main firmware and sub-apps for the Korean characters to display and print correctly.



Caution

Memory initialization may be required when installing this firmware version. Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from any version of firmware **C2150x**. 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). **[8.5.0.1]**

The following lists the main changes from the previous version (C2244)

1. Fixed a bug where a tray could be weighed and labelled even if it was outside the upper/lower weight check range. This could occur if the stable weight was received at the exact time the previous tray was being discharged.

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Version C2244 features & changes [November 2016]

Use with SLP-5 **2.20L** or later (**strongly recommended** for compatibility)

Note: This firmware does not support 2020 Nutrition data or Campaign selections for 16:U/P and 17:PRICE.

Related programs

Main: C2245
Scale Driver: J0834 (J0835)
OS: J0829E
BIOS: J0825
FPGA App.: J0910B (J0824)
Keyboard: J0823B
Scale: J0776G or later
Wrap App.: C2006K (J0860A)
Camera App.: J0884C (J0846)
Printer App:
 WM-Ai: J0909D (J0827)
 IP-Ai: J0911A (J0827)
Pop Printer App.: J0949C (J0926) [J0935A] {WM-Ai-P only}

NOTES:

1. After downloading the Main App program download the Printer (EC), Wrapper (Pack Machine), Pop Printer, Camera, and FPGA sub-app and sub-boot programs one at a time as needed.
2. The IP-Ai must be powered off and on after loading the main firmware and sub-apps for the Korean characters to display and print correctly.



Caution

Memory initialization is required when installing this firmware version.

Create a USB backup or use SLP-5 Maintenance Utility and SLP-5 to backup the wrapper before upgrading from previous firmware. 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). **[8.5.0.1]**

The following lists the main changes from the previous version (B0752T)

1. C2244 is based on global standard WM-Ai / IP-Ai firmware B0752T. Some features found in the C2150x firmware may not be available.
2. Added support to display and print Korean characters.
Note: Korean characters cannot be entered at the WM-Ai / IP-Ai. They must be entered using SLP-5 configured to support Korean and sent to the WM-Ai / IP-Ai.
3. 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-Ai / IP-Ai > Unit Properties Setup > Font Family.
 - 48: NANUMGOTHIC FULL <TTF> (At the WM/IP-Ai: 030)
 - 160: NANUMGOTHIC HALF <TTF> (At the WM/IP-Ai: 0A0)
4. To print the Korean fonts in the PLU description, use the following label format fields. See sample labels on the next page
 - a. Font Size: Ext. Font
 - b. Font Height: Set as needed. Typical values are 24~32 (18~20 at the WM/IP-Ai)
 - c. Font Family: Select from the list in step 3.

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- Korean characters are displayed in operation mode as 48: NANUMGOTHIC FULL <TTF> font.



Ext. Font, NANUMGOTHIC FULL
Font Height = 24 (SLP-5), 18 [Hex](Ai)

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

PREPACK / PLU 3 JUN.10.2020 (WED) 1:29PM

ROUND STEAK BONELESS
등근 스테이크 뼈대

TARE	lb	WEIGHT	lb	UNIT PRICE	\$/lb	TOTAL PRICE	\$
0.000		5.315		3.98		21.15	

MEMO

FORMAT 1
0

M PRICE

IMAGE 1
0

IMAGE 2
0

EXTRA1
0

INGREDIENT
0

EXTRA3
0

PRN MODE
PEEL

PACK DATE
JUN.10.2020

SELL BY DATE
JUN.13.2020

	1	2	3	4	5
PRICE	\$ 3.98				
SYMB.					
TRAY					

TRAY No.

ACCUM.
6 PACKS

PRN MD.
AUTO

TOTAL
ADD

FEED SPD

WP SPD

TRAY

CALC

RETURN

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

IP-Ai Screen with Korean Characters