

C1842 KOREAN FIRMWARE RELEASE NOTES

Ishida WM-Nano Series with PK-260B CPU Board

Procedure to install new WM-Nano firmware. Refer to the *Uni-7 & Uni-5 Setup Manual* for complete information.

1. Copy the Uni-7 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.
2. With the Uni-7 powered OFF raise the left side access panel.
3. Insert the Memory Stick in to the USB port.
DO NOT REMOVE the USB Memory Stick during the firmware update procedure.
4. Power up the Uni-7, press **ENTER** at the Date/Time confirm screen.
Note: Power up may take several minutes depending on the firmware version.
5. The upper display bar will be red indicating boot up from a USB Memory Stick.
Note: The scale will also be in "European" mode.
6. A warning message "Data Composition Is Different. Please Initialize the Memory" (0114-0000) may be displayed if the current and new firmware versions differ greatly. If this message appears press **OK** and skip to step 8.
7. Press the **MODE** key to enter the Main menu.
8. Enter **495344** and press the PLU key to access hidden menu steps.
9. Press the **ADJUST** menu button.
10. Scroll down and select **DOWNLOAD** (page 2/3).
11. At the DOWNLOAD (MAIN) screen press the **MAIN (ALL CLR)** button and press **EXECUTE**.
12. Press **EXEC** to begin clearing the Uni-7 Flash ROM memory.
13. After the flash ROM is cleared, the Uni-7 will return to the DOWNLOAD (MAIN) screen.
14. Press the **USB>MAIN (PRG+IMG)** button.
15. Press the firmware version to be installed. It will be highlighted.
16. Press **EXECUTE**.
17. Screen 15034-0000 "DATABASE VERSION IS DIFFERENT" may be displayed. Press **EXEC** to continue.
18. Press **EXEC** to begin the firmware download.
19. The screen will show the firmware download progress.
Note: The download may take a few minutes to begin and up to 15 minutes to complete. Data transfer may be confirmed by the flashing light on the USB memory stick.
20. When message 15029-0000 is displayed the firmware download is complete -- power the scale off.
21. Remove the USB Memory Stick.

PK-260B CPU Board

Firmware C2082x is designed for the revised CPU board PK-260B. **This firmware is not compatible with the previous CPU board PK-260A.** And previous firmware (C1842x) is not compatible with the new PK-260B CPU board.

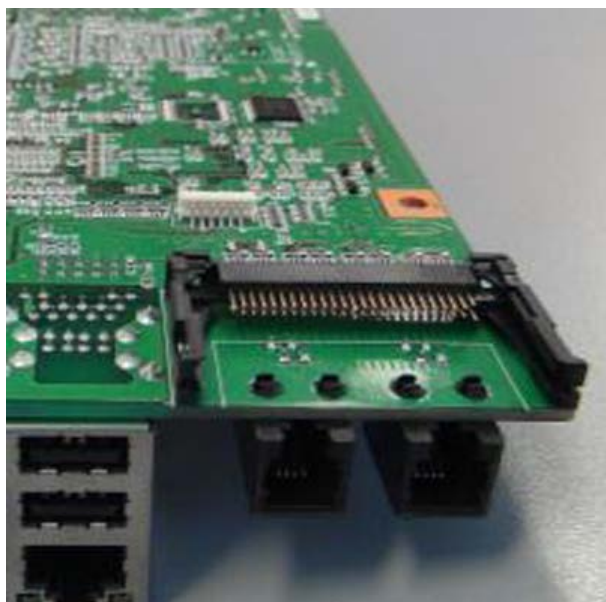
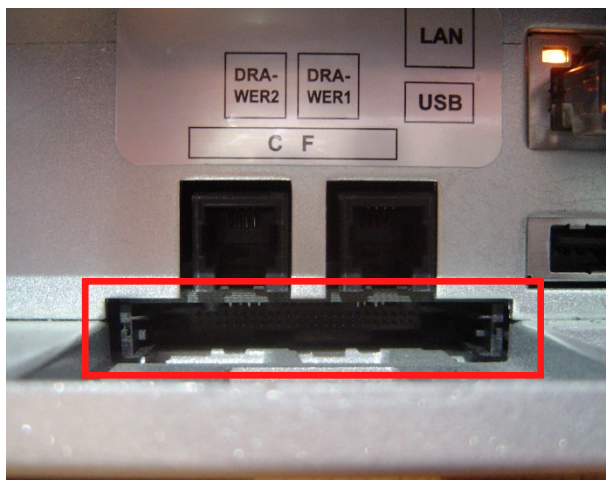
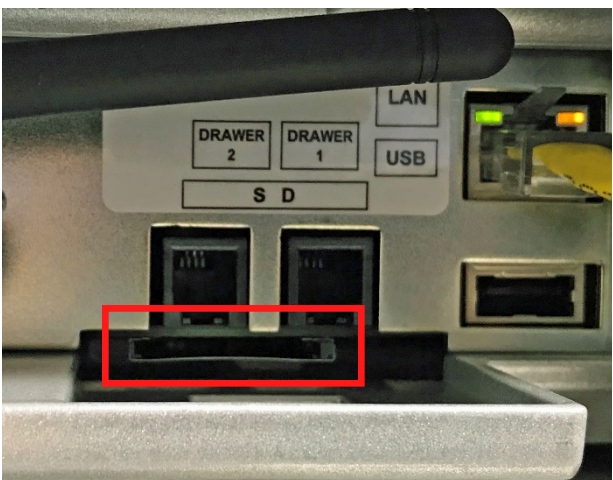
The two CPU board versions can be easily identified by the expansion memory card slot located on the left side of the Uni-7. See the images below.

SD Memory Cards

The new PK-260B CPU board supports SD memory card sizes 512MB, 1GB, and 2GB (p/n 174110). The maximum SD card memory that can be recognized is 2GB. A larger capacity SD card may be used but only 2GB will be available.

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PK-260B with SD Memory Card Slot

PK-260A with CF Memory Card Slot

Version C2082 features & changes [28 April 2016]

Wrapper CPU board firmware version: **J0796N** standard (**required**) or **C1892** Angled (**required**)
Use with SLP-5 **2.30** or later (**strongly recommended** for compatibility)
Use with SLP-V **3.05r** or later (**strongly recommended** for compatibility)

Related programs

OS: B0762B
BOOT ROM: B0763A
PRINTER1 FPGA: B0778 or later

[Firmware Database Structure Version: 2.17.2082.0]

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Caution

Memory initialization is required when upgrading to this firmware version. Use SLP-5 Maintenance Utility / SLP-5 or SLP-V i-Support / SLP-V to backup the scale before upgrading. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C1842).

1. This is the initial release of C2082 for the updated PK-260B CPU board.
2. New firmware C2082 is based on previous firmware C1842. Refer to the Release Notes for details for C1842 listed below.
3. Previous firmware for the original PK-260A CPU board will not be recognized or listed in the Firmware Download menu (Adjust menu > Download).
4. Data may be transferred from WM-Nano wrappers with the previous firmware and CPU board by USB backup.
5. Added support for SD memory card available on new CPU board PK-260B.

**** REFERENCE: WM-Nano Korean Firmware C1842 ****

Version C1842 features & changes [1 October 2014]

Wrapper CPU board firmware version: **J0796N** standard (**required**) or **C1892** Angled (**required**)
Use with SLP-V **3.05r** or later (**strongly recommended** for compatibility)



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-V i-Support and SLP-V to backup the scale before upgrading. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **Master Data Clear & System Data Init.** (Adjust menu, Memory Clear)

The following lists the main changes

1. Korean character support added to standard WM-Nano firmware B0684M.
2. Enabled function to print Korean characters (Hangeul). Available font sizes are: 16x16 font: 0x06, and 32X32 font: 0X0F.
3. Enabled function to display item name in ASCII + Hangeul in below pattern:
 - a. Pattern 1: Line1: ASCII Line2: ASCII
Pattern 2: Line1: Hangeul Line2: Hangeul
Pattern 3: Line1: ASCII Line2: Hangeul
Pattern 4: Line1: Hangeul Line2: ASCII
 - b. English font size 30x15 and Hangeul font size 16x16 are used for the item name display at the operation mode.
 - c. When ASCII and Hangeul are mixed on one line, the Hangeul will not be shown.
 - d. Printing is also supported in above pattern.
 - e. In receipt format No. 902 and No. 912 for CR mode, Line 1 is 22x10 ASCII and Line 2 is 16x16 Hangeul for the item name.
4. Korean characters cannot be entered at the wrapper, they must be received from SLP-5 or SLP-V. See *SLP-5 Configuration for Uni-3, Uni-5, Uni-7 & WM-Nano Korean Characters* for details to configure SLP-5 for Korean character support.

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**** REFERENCE: WM-Nano Firmware up to B0684M ****

Version B0684M features & changes [19 June 2012]

Wrapper CPU board firmware version: **J0796L (required)**

Use with SLP-V **3.05g** or later, SLP-5 **2.04j** or later.

[Firmware Database Structure Version: 2.17.881.0]

*Firmware structure is compatible with the previous version. Memory clear is not necessary.

The following lists the main changes from the previous version (B0684J)

1. Increased the speed of creating backup files. Files that required more than 30 minutes now are completed in approximately two minutes.
2. Increased the speed of reloading backup files.
3. Fixed a bug where an incorrect error message ("POS Format Error") was displayed when the scale was under weight when the wrapper tried to return to home position. This usually occurred when the platter was not placed back on the scale after cleaning or service.
4. Corrected the text on the Left Side Door Open error message.
5. Fixed a bug where communication failed when restoring an i-Support backup that included Scale Configuration. This was caused by a problem with the System Master file's internal structure.
6. Fixed a bug where the PLU cleared during manual labeling.
7. Wrapper Application program changes – version J0796L
 - a. Added support for an updated Motor Control board driver that operates the lift motor, rear folder, discharge pusher, and in-feed pusher.
 - b. Added error messages (0415-0011, 0415-0012) when the rear folder does not reach the front position in the allotted time. This would occur during a package jam.

Version B0684J features & changes [27 February 2012]

Wrapper CPU board firmware version: **J0796J (required)**

Use with SLP-V **3.05g** or later, SLP-5 **2.04j** or later.

[Firmware Database Structure Version: 2.17.881.0]

*Firmware structure is compatible with the previous version. Memory clear is not necessary.

The following lists the main changes from the previous version (B0684G)

1. Added a Film Temperature Check setting (Adjust menu, Wrapper, Adjust2). If enabled, error 0297 "FILM IS NOT GETTING WARM" is displayed when the fan heater temperature is below the programmed value.
2. Added a Film Sensor Check setting (Adjust menu, Wrapper, Adjust2). If enabled, the Nano checks for film in the two following cases.

Note: Film Detection sensors are required for this function to operate.

- a. No Film. If no film is detected during film feeding error 0482 "FAILED TO FEED FILM" is displayed. The detection time interval must be programmed. Use the "MEASURED VALUE (FILM SENSOR)" to determine the appropriate film detection time interval.

0482 Sub-Error Numbers:

- 0100: Film was not detected at both front and rear sensors.
- 0101: Film was not detected at the front sensor.

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- 0102: Film was not detected at the rear sensor.
- b. Film Remaining. If film is detected prior to film feeding error 0480 "FILM IS REMAINING" is displayed.
0480 Sub-Error Numbers:
 - 0100: Film is detected at both front and rear sensors.
 - 0101: Film is detected at the front sensor.
 - 0102: Film is detected at the rear sensor.
- 3. Fixed a bug where the Pack Date display remained in the short numeric format (MM.DD.YY) when the function key size was medium. The format now displays correctly as MMM.DD.YYYY.
- 4. Fixed a bug where the first line of a list of items is not shown. When paging through a list of items the first line did not change.
- 5. Added a WM-Nano image to various error message screens. When an error occurs the section of the wrapper image involved is highlighted in red, blue, or yellow.
Red: used to indicate WM-Nano sections preventing operation until a problem resolved
Blue: used to indicate WM-Nano sections related to a problem
Yellow: used to indicate a problem with the label or label cassette
- 6. Added an image showing label threading instructions. The image is displayed when the label cassette is removed.
- 7. Added a FEED button to various error display messages. The button is used to recover when labels run out, etc.
- 8. Fixed a bug where it was not possible to exit from the Tray list back to the operation mode.
- 9. Wrapper Application program changes – version J0796J
 - a. Added a setting to receive or ignore the PLU File's tray related settings transmitted to the Nano from the PC. Three PLU fields are affected: Wrap Mode, Tray Number, and Volume. The "PLU's Wrap Parameter" setting is in the Setup menu, Country, Misc.
Two selections are available:
 - Receive – overwrite the current PLU tray settings (default)
 - Skip – ignore downloaded PLU tray settings
 - b. Fixed a misspelling of "TEMPERATURE" on Setup menu, Country, Misc screen.

Version B0684G features & changes [3 November 2011]

Wrapper CPU board firmware version: **J0796H (required)**
Use with SLP-V **3.03b** or later (3.05g or later [strongly recommended](#))
[Firmware Database Structure Version: 2.17.881.0]

*Firmware structure is compatible with the previous version. Memory clear is not necessary.

The following lists the main changes from the previous version (B0684F)

1. Added item listing to PLU No. List function key. Enter the target PLU number then press PLU No. key. The closest item to the entered number will be highlighted. Press the desired item to be recalled.
2. Added item listing to Label Batch function key. On the Label Batch screen enter the target PLU number then press any blank button in the PLU No. column. The closest item to the entered number will be highlighted. Press the desired item to add it to the Batch.
3. Changed Tare operation
 - a. Tare values may be reduced without requiring the PLU to be recalled.

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- b. Tares programmed to PLUs and manually entered tares may be cleared by entering 0, TARE. This must be done when there is no weight on the scale.
Note: Tray tare weights cannot be cleared.
- 4. Fixed a problem with Department totals.
- 5. Modified default settings:
 - a. Changed PLU text search to look at All Lines in PLU Name [Setup menu, Operation Settings, Call tab, Find PLU]
 - b. Changed Auto Print of Fixed Price items to disabled [Setup menu, Operation Settings, Prod. tab, Fix Price Auto Print (Weigh)]
- 6. Added Database Compact (Vacuum) function to recover previously used memory. Without the Vacuum function the Remaining Memory amount may not be accurate as memory previously used by deleted items is not available.
Uni-7: On the Memory Clear page press 495344, PLU to reveal the Vacuum function key (located below the Return [↵] key). If there is insufficient memory available to perform the compaction an error is displayed. See the Notes below.
PC: Added Database Compact (Vacuum) command (3037) to the Uni-7 Comms Protocol. When the command is sent to the Uni-7 a message is displayed during compaction. The scale reboots when complete. If there is insufficient memory available to perform the compaction the Uni-7 returns an error code to the PC and displays an error. See the Notes below.
Notes: Database compaction requires an amount of free memory space equal to or greater than the database size. When there is insufficient available memory, refer to the options listed below.
 - a) Backup the Uni-7 using SLP-V. Perform a RAM Clear. Delete unnecessary data in SLP-V and resend to the scale.
 - b) Recognize the amount of remaining (available) memory is potentially inaccurate.
- 7. Wrapper Application program changes – version J0796H
 - a. Modified wrapping timing calculations for improved performance
Note: This affects wrap settings of any trays programmed using previous firmware. Recheck all trays and adjust wrapping as needed.
 - b. Fix a Fan Heater controller problem.

Version B0684F features & changes [12 October 2011]

Wrapper CPU board firmware version: **J0796G (required)**
Use with SLP-V **3.03b** or later (3.05g or later [strongly recommended](#))
[Firmware Database Structure Version: 2.17.881.0]

*Firmware structure is compatible with the previous version. Memory clear is not necessary.

The following lists the main changes from the previous version (C1758)

- 1. Updated Standby Mode to include shutting off the heaters. When the Standby Mode (Setup menu, Standby Mode) is enabled the display dims and the Seal Bar Heater and the Fan Heater shut off.
Note: The Standby Mode activates only after the Nano sets idle for the programmed interval.
- 2. Added Cleaning Mode.
 - Function key Cleaning, #220 added (Program menu, Preset Keys)

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- Pressing the Cleaning key in operation mode displays an advisory message. Press START to raise the Lift and lower the Infeed Pushers to facilitate cleaning.
- 3. Changed Tray programming menu to use "+" and "-" key names to increase and decrease wrapping parameters. (Program menu, Tray)
- 4. Fixed a bug where the wrapper locked in a loop when the labels ran out. The Return key is now recognized to allow the Feed to align the new labels.
- 5. Fixed a bug where temperature units were shown as "C" when "F" was selected. (Setup menu, Country, Misc)



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230 W. Coleman St. • Rice Lake, WI 54868 • USA
U.S. 800-472-6703 • Canada/Mexico 800-321-6703 • International 715-234-9171 • Europe +31 (0)26 472 1319

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