

B0684x MAIN FIRMWARE RELEASE NOTES

WM-Nano Table Top Automatic Wrapper with PK-260A CPU Board

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

1. Copy the WM-Nano wrapper 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 WM-Nano 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 WM-Nano, 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 wrapper 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. Press the **USB>MAIN (PRG+IMG)** button.
12. Press the firmware version to be installed. It will be highlighted.
13. Press **EXECUTE**.
14. Screen 15034-0000 "DATABASE VERSION IS DIFFERENT" may be displayed. Press **EXEC** to continue.
15. Press **EXEC** to begin the firmware download.
16. 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.
17. When message 15029-0000 is displayed, the firmware download is complete -- power the wrapper off.
18. Remove the USB Memory Stick.
19. Power up the WM-Nano, press **ENTER** at the Date/Time confirm screen.
20. Press the **MODE** key to enter the Main menu.
21. Enter **495344** and press the **PLU** key to access hidden menu steps.
22. Press the **ADJUST** menu button.
23. Scroll down and select **MODEL** (page 3/3).
24. Set the Model configuration as follows:
 - **Model Select** = UNI-7 RP
 - **WM-Nano** = CONNECT
 - **WM-Nano Type** = L-TYPE
25. Press the **RETURN ARROW** (top right).
26. Power the wrapper off at the prompt to reboot the machine.
27. Power up the WM-Nano, press **ENTER** at the Date/Time confirm screen.
28. Press the **MODE** key to enter the Main menu.
29. Enter **495344** and press the **PLU** key to access hidden menu steps.
30. Press the **ADJUST** menu button.
31. Scroll down and select **DOWNLOAD** (page 2/3).
32. Press **OK** at the warning message "No USB Memory" (0396-0000).
33. Press the **SUB** tab.
34. Press the firmware version to be installed. It will be highlighted.
35. Press **EXECUTE**.
36. Press **EXEC** to begin the firmware download.
37. The screen will show the firmware download progress.
Note: The download takes a few minutes to complete.
38. When the download is complete press the **RETURN ARROW** (top right).
39. Press the **OPERATION** button (lower right) to return to Normal Operation mode

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PK-260A CPU Board

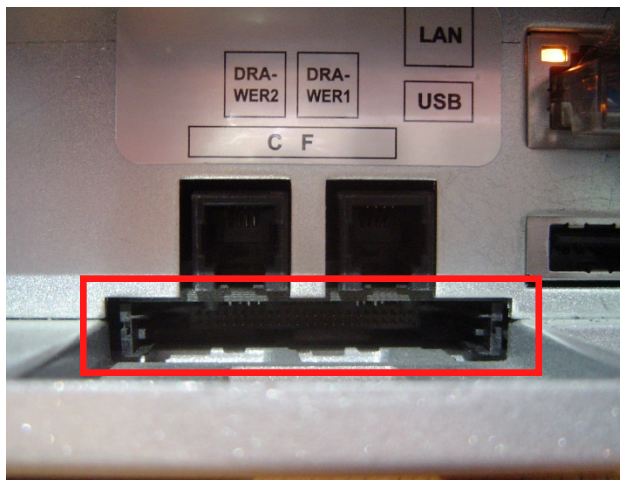
Firmware B0684x is designed for the original CPU board PK-260A. **This firmware is not compatible with the revised CPU board PK-260B.** And new firmware (B0760x) is not compatible with the original PK-260A CPU board.

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

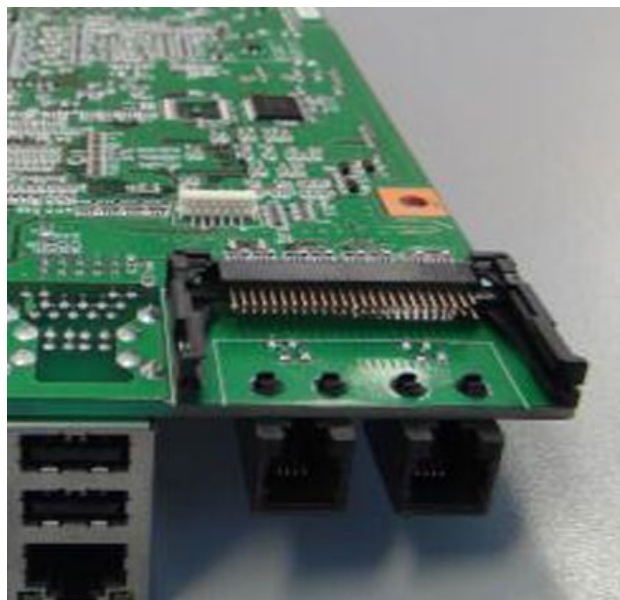
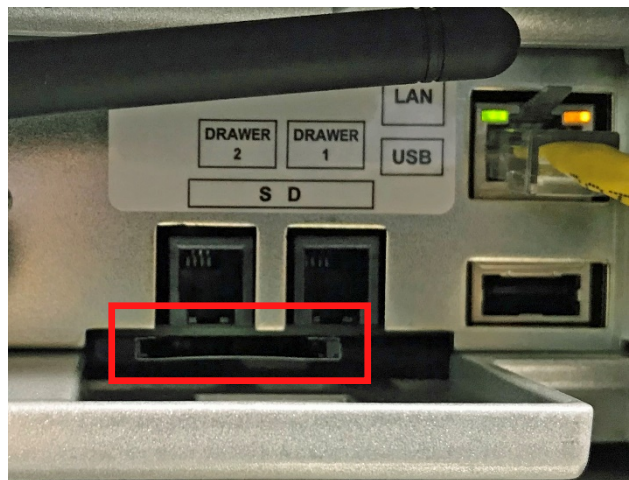
CF Memory Cards

The original PK-260A CPU board supports CF memory card sizes 512MB, 1GB, and 2GB (p/n 91870). The maximum CF card memory that can be recognized is 2GB. A larger capacity CF card may be used but only 2GB will be available.

B0684x PK-260A with CF Memory Card Slot



B0760x PK-260B with SD Memory Card Slot



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Procedure to convert to 2020 Nutrition data format. See [B0684Y item 1h](#) for detailed step by step instructions.

Version B0684Z features & changes [22 March 2021]

Use with SLP-5 **2.40t** or later

Use SLP-5 **2.50a** or later to support 2020 Nutrition if Scale Type is set as "WM-Nano" in SLP-5.

Use with SLP-V **3.05g** or later (2020 Nutrition is not supported)

Related programs

Main: B0685Z
OS: C0611E or later
PRINTER1 FPGA: B0612A or later
WRAPPER APLY: C1892 (Angled side folders)
J0796N (Straight side folders)
WRAPPER BOOT: J0671C

[Firmware Database Structure Version: 2.17.881.1]



Caution

Memory initialization may be required when upgrading to this firmware version.

Use SLP-5 / Maintenance Utility or SLP-V / i-Support to backup the scale before upgrading from firmware **B0684X** or earlier. Due to 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 (B0684Y)

1. Eliminated case sensitive searches. This is only available for PLUs when the configuration is set to search "ALL" text. [Setup menu > Operation Settings > Call1 tab > Find PLU = ALL]

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Version B0684Y features & changes [24 January 2020]

Use with SLP-5 **2.40t** or later

Use SLP-5 **2.50a** or later to support 2020 Nutrition if Scale Type is set as "WM-Nano" in SLP-5.

Use with SLP-V **3.05g** or later (2020 Nutrition is not supported)

Related programs

Main: B0685Y
OS: C0611E or later
PRINTER1 FPGA: B0612A or later
WRAPPER APLY: C1892 (Angled side folders)
J0796N (Straight side folders)
WRAPPER BOOT: J0671C

[Firmware Database Structure Version: 2.17.881.1]



Caution

Memory initialization is required when upgrading to this firmware version.

Use SLP-5 / Maintenance Utility or SLP-V / i-Support to backup the scale before upgrading from firmware **B0684X** or earlier. Due to 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 (B0684X)

1. Added support to print the new 2020 Nutrition data.
 - a. Nutrition editing screens (Program menu > Nutrition) are changed to two parts listing the new standard nutrition data fields plus a "free" table that can be used for miscellaneous additional values.
 - Form tab – for standard data fields
 - Free tab – for miscellaneous fields
 - b. All values are converted to text to support decimals, percent symbols, etc.
 - c. When nutrition data is sent from SLP-5 in the old numeric format, it is converted and stored in the new 2020 text format. The appropriate unit is automatically added: g, mg, %, etc.
 - d. The following nutrition data from the old format that are no longer required in the new 2020 Nutrition format are saved as follows.
 - Calories From Fat → Nutr.Free1
 - Protein (%) → Nutr.Free2 (%)
 - Sugars (%) → Nutr.Free3 (%)
 - Vitamin A (%) → Nutr.Free4 (%)
 - Vitamin C (%) → Nutr.Free5 (%)
 - Sugar Alcohol → Nutr.Free1 (%)
 - e. After installing B0684Y or later, it is not possible to receive nutrition data in the old numeric format in to SLP-5.
 - f. If SLP-5 is configured for the old nutrition format and nutrition data are requested from a scale with B0684Y or later installed, no data will be received in to SLP-5. There is no error.
 - g. SLP-5 can be changed between the old and new 2020 Nutrition format as follows: Open SLP-5 Setup Utility > General > General #2 tab > Enable "Nutrition: USA format (2020)"?
 - h. It is not possible to transfer old nutrition data by USB backup to the scale after a firmware update to B0684Y or later. SLP-5 must be used to receive the old nutrition data **before** the update. And then send the nutrition data from SLP-5 after the update. Refer to the following steps.
 - i. Create a full USB backup.
 - ii. Configure SLP-5 for the original nutrition format. See step g. above.
 - iii. Receive all data into SLP-5.

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- iv. Install B0684Y or later firmware.
 - v. Clear the scale's memory: Adjust menu > Memory Clear.
 - vi. Reconfigure the scale for USA, etc. as needed.
 - vii. Load the full USB backup. The old style nutrition data will fail to load.
 - viii. Send nutrition data from SLP-5 to the scale.
 - ix. Reconfigure SLP-5 for the 2020 Nutrition format
 - x. Receive the converted nutrition data from the scale. See step g. above.
 - xi. Download updated label formats as needed to print the 2020 Nutrition format.
2. Added 2020 Nutrition Print IDs 2C1 to 2C8 and 2E4 to 2ED (705 to 712 and 740 to 749 in SLP-5).
3. Converted all original nutrition fields (Print IDs) to text format. This allows the option to print both the original and 2020 Nutrition data and formats during a transition period.

Version B0684X features & changes [7 June 2017]

Wrapper CPU board firmware version: **J0796N** standard (**required**) or **C1892** Angled (**required**)
Use with SLP-V **3.05g** or later, SLP-5 **2.20f** 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 (B0684W)

1. Modified to display the Firmware Details in Adjust menu without entering the service password. Memory initialization is required to update the list of menu steps displayed without the service password.
2. Fixed a potential problem where the Flash ROM could be corrupted if the scale was powered off while the Sales Mode was being changed.

Version B0684W features & changes [3 March 2016]

Wrapper CPU board firmware version: **J0796N** standard (**required**) or **C1892** Angled (**required**)
Use with SLP-V **3.05g** or later, SLP-5 **2.20f** 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 (B0684V)

1. Added a new Time Unit to correctly print the "12" hour that was printed as "00" when the Pack Time and Sell By Time were set as 12-hour format with AM/PM.
If necessary, add the new Time Unit to SLP-V and SLP-5 as follows.
 - a. Open the SLP Setup Utility.
 - b. Select Label Format.
 - c. Select WM-NANO.
 - d. Select Unit Properties Setup.
 - e. Select Time Symbol.
 - f. Select New.
 - g. Enter:
Name: AM/PM (12)
Value: 130

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- h. Click OK, OK, Exit, Save and Exit.
 - i. Close the Setup Utility.
2. Fixed the spelling in message 0492-0001 "FILM REMOVAL IS COMPLETE".

Version B0684V features & changes [27 June 2013]

Wrapper CPU board firmware version: **J0796N** standard (**required**) or **C1892** Angled (**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 (B0684S)

1. Fixed a bug where a PLU File sent from a PC was not accepted. SLP-V reported error 10021, "Save error - unexpected data". The problem occurred when "PLU's Wrap Parameters" was set as "SKIP" [Setup menu > Country > Misc > PLU's Wrap Parameter]. The problem was introduced from the B0684S version.
2. Added a setting to ignore non-existent text messages linked to PLUs: "Link Error Display" [Setup menu > Error Process > Call tab]. The default is "Display Error". This single setting applies to Extra Messages 1, 2, 3, Coupon Message, POP Message, and all Free Messages.
3. Improved response speed in PLU Programming [Program menu > PLU] and Barcode settings [Setup menu > Barcode] screens.
4. Add support for Extra Message #2 and Extra Message #3 8-digit codes to comms protocol.

Version B0684S features & changes [12 April 2013]

Wrapper CPU board firmware version: **J0796N** standard (**required**) or **C1892** Angled (**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 (B0684R)

1. Added a new Label Print ID: "DF PRICE" (Savings Amount) which prints the price difference between Pre-Markdown price and Markdown price.
2. Added two new GS1 Expanded formats (Setup menu, Barcode, POS Code tab). The two new formats 3 & 4 contain the same data fields as the first two formats respectively but the fields are rearranged to place the Total Price last. This eliminates the need for a separator character.
3: (01)(3903)(3922)
4: (01)(3903)(15)(3922)
3. Added a PLU File Management system to control if PLU data are overwritten during communication. The system utilizes two .CSV files located in the firmware file folder Soft, FormData:
 - ItemSLP.csv -- Item Master section
 - TankSLP.csv -- Unit Price Master section

The .CSV files must be edited to specify if individual PLU fields are overwritten or not. By default, all fields receive and send data. Each PLU field has six parameters as described below. Only the last four columns should be edited. See sample .CSV files following the **Important Notes** below.

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- RecNo – PLU field number in the list (do not change)
- Name – PLU field description (do not change)
- SlpRecv – 1: receive data from PC (default), 0: ignore data from PC
- SlpSend* – 1: send data to PC (default), 0: do not send data to PC
- CsicRecv – 1: receive data from Master (default), 0: ignore data from Master
- CsisSend* – 1: send data to Master (default), 0: do not send data to Master

* When "0" is set no value will be sent to the PC or Master scale. The comma-delimited transmission will look like the following: 123,234,,AAA,5678 where ,, indicates a skipped data field.

IMPORTANT NOTES:

- ❖ The "ItemSLP.csv" and "TankSLP.csv" files must be sent as part of a full firmware download by USB memory stick. The .CSV files cannot be sent separately.
- ❖ If the PLU file is deleted from the scale and reloaded by SLP-V or third-party scale management software any blocked fields (SlpRecv = 0) will not be restored. The data can only be reprogrammed at the scale or reloading from a USB backup file. To allow download from the PC the .CSV file must be edited to receive the data and the firmware reloaded.

<ItemSlp.csv>

RecNo	Name	SlpRecv	SlpSend	CsicRecv	CsisSend
1	PLU No.	1	1	1	1
2	Item Code	1	1	1	1
3	Pack Date Flag	1	1	1	1
4	Pack Time Flag	1	1	1	1
5	Pack Time	1	1	1	1
...	...	...	...	...	...
69	Commodity Name	1	1	1	1

<TankSlp.csv>

RecNo	Name	SlpRecv	SlpSend	CsicRecv	CsisSend
1	Sales Mode	1	1	1	1
2	Unit Price	1	1	1	1
3	Fixed Price	1	1	1	1
4	Markdown Flag	1	1	1	1
5	Markdown Amount	1	1	1	1
...	...	...	...	...	...
48	UprGrp(5)	1	1	1	1

Changes made to fields named "Reserved" are ignored.

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Version B0684R features & changes [25 January 2013]

Wrapper CPU board firmware version: **J0796N** standard (**required**) or **C1892** Angled (**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 (B0684P)

1. Updated message 0297, "Machine is warming up", button names to "RETRY" and "CANCEL".
2. Added support for new Angled Side Folders. Special Wrapper CPU board firmware is required to adjust the wrap timing for the Angled Side Folders. If the Nano is fitted with Angled Side Folders select file **C1892** when downloading the Sub firmware to the wrapper CPU board as noted in step 34 at the beginning of these release notes.

NOTE: Recheck the wrapping for all trays if an existing Nano is updated with Angled Side Folders.

Version B0684P features & changes [29 November 2012]

Wrapper CPU board firmware version: **J0796M** (**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 (B0684N)

1. Fixed a problem where some text messages were not listed for selection by the Operator. If the Operator pressed a Message function key to select from a list, messages could be "lost" between the end of one screen and the beginning of the next screen. This problem affected Extra Messages, Coupon Message, and Free Messages.

Version B0684N features & changes [19 October 2012]

Wrapper CPU board firmware version: **J0796M** (**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 (B0684M)

1. Added sub-error message number xxxx-1xxx to indicate the film was not cut and cannot be removed. Any sub-error numbers with the leading "1" indicate the Film Loading Arm did not open after feeding film. This is based on the sensor checking the Film Loading Arm position. Example: error 0482-1101, this sub-error indicates:
1000: Film is not cut (when film cannot be removed) and
0101: Film was not detected by the front sensor within the allotted time.
2. Updated recovery operation from error message 0461, "Film Over" to require the right side to be opened to check for film. If the door is not opened the message "OPEN THE RIGHT SIDE COVER" is displayed in red. Error message 0461 cannot be cleared until the door is opened and closed.

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3. Updated recovery operation from error message 0482, "Failed to Feed Film" to require the left side to be opened to check the film condition. If the door is not opened the message "OPEN THE LEFT SIDE COVER" is displayed in red. Error message 0482 cannot be cleared until the door is opened and closed.
4. Wrapper Application program changes – version J0796L
 - a. Increased the maximum limit of the film sheet length.
 - b. Changed the operation of the Left & Right side folders to prevent premature return to home position. Both the Discharge sensor and the Discharge Safety sensor must be clear before the side folders return to the home position.
 - c. Changed the timing for film removal after an error. Removal now occurs after all mechanical parts have returned to the home positions. It is easier to see and remove all film this way.
 - d. Modified sub-error numbers for error message 0461, "Film Over" to better identify the position of the film over.
 - 0001: Front side, before film feeding
 - 0002: Rear side, before film feeding
 - 1003: Front side, during film feeding
 - 1004: Rear side, during film feeding

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.

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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.
 - 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.

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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.
 - 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.

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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)
 - 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)