

C1929x / B0664x MAIN FIRMWARE RELEASE NOTES

Ishida Uni-5 Series

Firmware **C1929x** supersedes **B0664x** as the standard version for the Uni-5.

Procedure to install new Uni-5 firmware

Refer to the *Uni-7 & Uni-5 Setup Manual* for complete information.

1. Copy the Uni-5 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-5 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-5, 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 memory clear will be required after installing the new firmware if the warning message "Data Composition Is Different. Please Initialize the Memory" (0114-0000) is displayed. This is due to significant differences between the current and new firmware versions. 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-5 Flash ROM memory.
13. After the flash ROM is cleared, the Uni-5 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.

Procedure to convert to 2020 Nutrition data format

See [C1929B item 1h](#) for detailed step by step instructions.

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Version C1929E

Release Date: 28 October 2022

Use with SLP-5 **2.40t** or later ([strongly recommended](#) for compatibility)

Related programs

MAIN: C1930E
OS: C2374
BOOT: B0666 or later
PRINTER1 FPGA: B0668 or later

[Firmware Database Structure Version: 2.18.0.0]



Caution

Memory initialization may be 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 from firmware **B0664x** or **C1929A** or **earlier**. 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 Uni-5 may not prompt to clear the memory.

DO NOT restore **B0664x** Preset Key and Cassette files from a Maintenance Utility (SLP-5) / i-Support (SLP-V) .ABK file or a USB memory stick due to incompatibility with the new **C1929x** Cassette function.

- Cassette settings must be entered manually.
- Preset Keys may be reloaded from SLP-5 or SLP-V.

IMPORTANT

This firmware loads an updated OS C2374 that disables Telnet replies for security purposes. The update to C2374 was first introduced in C1929A. The following procedure is required.

1. Load the C1929C "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the Uni-5 scale.

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3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install C1929C: select USB>MAIN (PRG+IMG) > select C1929C > EXECUTE.
5. After reboot confirm the OS version has been updated to C2374 or later (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (C1929D)

1. Added barcode format 36: FF CCCCC(/10) (c/p) PPPP (c/d). This format ignores the last digit in the PLU's barcode value – typically a zero. The five digits used from the 14-digit barcode are from 9 to 13.
 - F** Flag, 2 digits
 - C** Product Code, 5 digits (last digit cut off)
 - c/p** Price Check Digit, 1 digit
 - P** Price, 4 digits
 - c/d** Check Digit, 1 digit

Version C1929D

Release Date: 15 April 2022

Use with SLP-5 **2.40t** or later ([strongly recommended](#) for compatibility)

Related programs

MAIN: C1930D
OS: C2374
BOOT: B0666 or later
PRINTER1 FPGA: B0668 or later

[Firmware Database Structure Version: 2.18.0.0]



Caution

Memory initialization may be 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 from firmware **B0664x** or **C1929A** or **earlier**. 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 Uni-5 may not prompt to clear the memory.

DO NOT restore **B0664x** Preset Key and Cassette files from a Maintenance Utility (SLP-5) / i-Support (SLP-V) .ABK file or a USB memory stick due to incompatibility with the new **C1929x** Cassette function.

- Cassette settings must be entered manually.
- Preset Keys may be reloaded from SLP-5 or SLP-V.

IMPORTANT

This firmware loads an updated OS C2374 that disables Telnet replies for security purposes. The update to C2374 was first introduced in C1929A. The following procedure is required.

1. Load the C1929C "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the Uni-5 scale.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install C1929C: select USB>MAIN (PRG+IMG) > select C1929C > EXECUTE.

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5. After reboot confirm the OS version has been updated to C2374 or later (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (C1929C)

1. Added support for the Silex SX-590 wireless card in addition to the Lantronix WiPort.
 - a. A setting was added to the WiFi setting screen (Setup menu > Machine No.) to select between "WiPort" (default) and "SX".
 - b. The SX-590 card supports the following encryption. Unsupported encryption types are shaded out on the WiFi screen.
 - WEP128
 - WPA PSK (personal) TKIP
 - WPA2 PSK (personal) CCMP
 - c. The SX-590 supports both the 2.4 GHZ and 5 GHZ frequency band, unlike the WiPort that supports only 2.4 GHZ.
 - d. The SX-590 supports 802.11a/b/g/n/ac (1x1) compared to the WiPort that only works with 802.11 b/g.
 - e. For identification purposes, scales with the Silex SX-590 installed from the factory use a white antenna.

Version C1929C

Release Date: 8 November 2019

Use with SLP-5 **2.40t** or later ([strongly recommended](#) for compatibility)

Related programs

MAIN: C1930C
OS: C2374
BOOT: B0666 or later
PRINTER1 FPGA: B0668 or later

[Firmware Database Structure Version: 2.18.0.0]



Caution

Memory initialization may be 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 from firmware **B0664x** or **C1929A** or **earlier**. 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 Uni-5 may not prompt to clear the memory.

DO NOT restore **B0664x** Preset Key and Cassette files from a Maintenance Utility (SLP-5) / i-Support (SLP-V) .ABK file or a USB memory stick due to incompatibility with the new **C1929x** Cassette function.

- Cassette settings must be entered manually.
- Preset Keys may be reloaded from SLP-5 or SLP-V.

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IMPORTANT

This firmware loads an updated OS C2374 that disables Telnet replies for security purposes. The update to C2374 was first introduced in C1929A. The following procedure is required.

1. Load the C1929C "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the Uni-5 scale.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install C1929C: select USB>MAIN (PRG+IMG) > select C1929C > EXECUTE.
5. After reboot confirm the OS version has been updated to C2374 or later (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (C1929B)

1. Fixed a bug where nutrition text entered at the scale may not be saved properly. Text entered that was one character less than the maximum could have random characters appended at the end.

Version C1929B

Release Date: 26 October 2019

Use with SLP-5 **2.40t** or later (strongly recommended for compatibility)

Related programs

MAIN: C1930B
OS: C2374
BOOT: B0666 or later
PRINTER1 FPGA: B0668 or later

[Firmware Database Structure Version: 2.18.0.0]



Caution

Memory initialization is required when upgrading to this firmware version. Create a USB backup or use SLP-5 Maintenance Utility / SLP-5 or SLP-V i-Support / SLP-V to backup the scale before upgrading from any previous firmware. 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 Uni-5 may not prompt to clear the memory.

DO NOT restore **B0664x** Preset Key and Cassette files from a Maintenance Utility (SLP-5) / i-Support (SLP-V) .ABK file or a USB memory stick due to incompatibility with the new **C1929x** Cassette function.

- Cassette settings must be entered manually.
- Preset Keys may be reloaded from SLP-5 or SLP-V.

IMPORTANT

This firmware loads an updated OS C2374 that disables Telnet replies for security purposes. The update to C2374 was first introduced in C1929A. The following procedure is required.

1. Load the C1929B "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the Uni-5 scale.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install C1929B: select USB>MAIN (PRG+IMG) > select C1929B > EXECUTE.

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5. After reboot confirm the OS version has been updated to C2374 or later (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (C1929A)

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 C1929B, 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 C1929B 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 C1929B. 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.
 - iv. Install C1929B 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.

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Version C1929A

Release Date: 10 July 2018

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

MAIN: C1930A
OS: C2374
PRINTER1 FPGA: J0758A or later
BOOT: B0666 or later

[Firmware Database Structure Version: 2.17.0.0]



Caution

Memory initialization may be 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 from firmware **B0664x**. 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 Uni-5 may not prompt to clear the memory.

DO NOT restore **B0664x** Preset Key and Cassette files from a Maintenance Utility (SLP-5) / i-Support (SLP-V) .ABK file or a USB memory stick due to incompatibility with the new **C1929x** Cassette function.

- Cassette settings must be entered manually.
- Preset Keys may be reloaded from SLP-5 or SLP-V.

IMPORTANT

This firmware loads an updated OS C2374 that disables Telnet replies for security purposes. The following procedure is required.

1. Load the C1929A "Soft" firmware folder on to a compatible USB.
2. Install the USB and power on the Uni-5 scale.
3. Clear the old firmware files: Adjust menu > Download > select MAIN (ALL CLEAR).
4. Install C1929A: select USB>MAIN (PRG+IMG) > select C1929A > EXECUTE.
5. After reboot confirm the OS version has been updated to C2374 or later (Adjust menu > Firmware Details).

The following lists the main changes from the previous version (C1929)

1. Disabled the Telnet connection by prohibiting its startup communication as part of the VxWorks OS.
2. Fixed a bug where the markdown price rounding was incorrect when the scale was set for single-range weighing.
3. Modified the text search option. (Setup menu > Operation Settings > Call1 tab)
 - a. Added an option to eliminate case sensitive searches.
 - **DISTINCTION** – Case sensitive search, i.e. maintains the distinction between upper and lower case (default).
 - **IDENTICAL** – Non-case sensitive search, i.e. upper and lower case are treated identically.

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- b. Changed the PLU Search description from "LINE 2" to "LINE 1+2". This is to clarify both of the first two lines of the PLU description are searched. (Setup menu > Operation Settings > Call tab).
- c. Changed the default PLU Search to "LINE 1+2" (Setup menu > Operation Settings > Call tab).
- 4. Added a Store function key to allow the store name and address to be changed by the operator.
 - a. Added preset key is: 21: Shop No.
 - b. The store number must be entered manually, a drop down list is not displayed.
 - c. The selected store is set as the default and saved even after the machine is powered down.
 - d. An error beep occurs when an invalid store number is entered.
 - e. Shop No. is added to Keylock (Setup menu > Keylock > Function Key tab > page 4/21)
- 5. Changed the text displayed for error message 1010-0000 No Label For Printer 1. Label loading instructions have been updated for clarity and accuracy.
- 6. Modified the byte-order format of the Uni-5 (previously little endian) to match that of Uni-7 and SLP (big endian).
CAUTION: Previous .ABK backups made using SLP-V i-Support and SLP-5 Maintenance Utility from scales with firmware B0664J and earlier are not compatible with C1929x firmware.
USB file backups are not affected and remain compatible.
- 7. Fixed a bug where the scale operation slowed down while the system file was updated each time the label cassette was switched. Changed to update only when the sales mode assigned to the cassette is different from the current setting.
- 8. Fixed a bug where the internal clock was not read correctly. The data for "Seconds", "Minutes", "Hours", "Day of the week", "Day", "Month", and "Year" are now received in one string rather than individually.
- 9. Modified the display brightness setting values (Adjust menu > Display Check). This is in preparation for an update of the CPU board: PK-270C to PK-270D.
 - a. Changed the default value from 50 to 25. Values above 25 do not increase the brightness.
 - b. Changed the input range from 0–63 to 15–63.
- 10. Fixed a bug where a Symbol USB scanner (LS2208) connected before the scale was powered on was not recognized.

Version C1929

Release Date: 28 October 2013

Use with SLP-V **3.05r** or later (strongly recommended for compatibility)

Use with SLP-5 **2.04g** or later (strongly recommended for compatibility)

[Firmware Database Structure Version: 2.17.0.0]



Caution

Memory initialization is required when upgrading to this firmware version.

Use i-Support and SLP-V to backup the scale before upgrading from firmware **B0664x**. Due to feature changes a standard memory clear is necessary to install the new Cassette functions: **Master Data Clear & System Data Init**. (Adjust menu, Memory Clear). The Uni-5 will not prompt to clear the memory.

DO NOT restore Preset Key and Cassette files from i-Support or a USB memory stick due to incompatibility with the new Cassette function. The Preset Keys can be reloaded from SLP-V or SLP-5. Cassette settings must be entered manually.

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*Firmware structure is compatible with the previous version except as noted above.

The following lists the main changes from the previous version (B0664J)

1. Increased the number of Cassette settings from one to seven (Setup menu, Cassette).
2. Added a Cassette function preset key (#70) to allow switching between cassette settings.
 - a. Cassette function keys can be programmed on the touchscreen only.
 - b. A Cassette function key can be programmed on either the main Category page or Function Key page.
3. The Cassette function keys operate as follows:
 - a. A Cassette function key can be pressed any time to switch cassettes.
 - b. The Uni-5 remembers the selected cassette until it is changed or the power is shut off.
 - c. There is no indication of the current cassette.
4. To support the Cassette function key via SLP-V or SLP-5 edit the preset key settings.
 - a. Open the **Setup Utility** program.
 - b. In the Configuration menu select **General Settings**.
 - c. Select the **Supported Functions** tab.
 - d. Under "General Operations", enable **Advanced Configuration Settings**.
 - e. Click **OK**.
 - f. Close and reopen the Setup Utility.
 - g. Select **Preset Keys**.
 - h. Select **Uni-5/Uni-7/WM-Nano** tab, click **EDIT**.
 - i. Select #70 "Cassette No.", click **EDIT**.
 - j. Check the "Allow Key Data" box.
 - k. Click **OK**, **OK** to save the change.

** REFERENCE: Uni-5 Firmware up to B0664J **

Version B0664J

Release Date: 21 May 2013

Use with SLP-V **3.05g** or later (strongly recommended for compatibility)

Use with SLP-5 **2.04** or later (strongly recommended for compatibility)

[Firmware Database Structure Version: 2.17.0.0]

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

The following lists the main changes from the previous version (B0664H)

1. 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.

Version B0664H

Release Date: 12 April 2013

Use with SLP-V **3.05g** or later (strongly recommended for compatibility)

Use with SLP-5 **2.04** or later (strongly recommended for compatibility)

[Firmware Database Structure Version: 2.17.0.0]

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

The following lists the main changes from the previous version (B0664F)

1. Added a new Label Print ID: "DF PRICE" (Savings Amount) which prints the price difference between Pre-Markdown price and Markdown price.
2. Updated all relevant firmware specifications to match Uni-7 firmware version B0674M.
3. Added three function keys: *Extra1 Edit* (#145), *Extra2 Edit* (#146), and *Extra3 Edit* (#147) to allow these Extra Messages to be edited from the operation mode. When the key is pressed, the same message list is displayed as in Program menu. Select a message and press DETAIL or enter the message number and press PLU to edit the message.

Note: These function keys are for editing only. The edited message is not selected to print with the PLU. Use the standard *Extra1* (#16), *Extra2* (#17), and *Extra3* (#18) function keys to select the message.

4. 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)
5. 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.

- 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.

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<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
...	...	...	...	...	...
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.

Version B0664F

Release Date: 1 February 2012

Use with SLP-V **3.05g** or later ([strongly recommended](#) for compatibility)
Use with SLP-5 **2.04** or later ([strongly recommended](#) for compatibility)
[Firmware Database Structure Version: 2.17.0.0]

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

The following lists the main changes from the previous version (B0664E)

1. Modified the LABEL END error message to be more appropriate for the Uni-5 side load labels.

Version B0664E

Release Date: 23 June 2011

Use with SLP-V **3.05g** or later ([strongly recommended](#) for compatibility)
[Firmware Database Structure Version: 2.17.0.0]

The following lists the main changes from the previous version.

1. B0664E is the initial release of Uni-5 firmware.
2. Uni-5 operation is based on the Uni-7.