

C2271x MAIN FIRMWARE RELEASE NOTES

Uni-3 Series

Firmware **C2271x** supersedes **C1937x** as the standard version for the Uni-3.

Procedure to install new Uni-3 firmware. Refer to the *Uni-3 Technical Manual* for complete information.

1. Copy the Uni-3 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.
 - The recommended USB memory stick specifications are: 8GB or smaller, USB 3.0 high-speed format, and FAT32 file system.
2. With the Uni-3 powered OFF insert the Memory Stick in to the USB port.
DO NOT REMOVE the USB Memory Stick during the firmware update procedure.
3. Power up the Uni-3. At the Date/Time confirmation screen press **Enter**.
Note: Power up may take several minutes depending on the firmware version.
4. At *C13-01 MODEL* press **Mode**.
5. At *S00 OPERATE* press ← (Left Arrow).
6. At *C00 ADJUST* enter the service password **495344** and press **PLU**.
7. Scroll down to *C10 DOWNLOAD* using ↓ (Down Arrow) and press **Enter**.
8. At *C10-01 COPY METHOD* press ↓ (Down Arrow) to *C10-02 SELECT*.
9. Confirm the correct firmware version is displayed and press **Enter**.
10. A warning message *15034-0000 "Database Version Is Different"* may be displayed indicating a memory clear will be required after loading the new firmware. If a current backup is not available press CLEAR and MODE then power off the scale and make a backup. To continue loading the new firmware press **Enter**.
11. At message *15017-0000 "CHK MAIN PROG DOWNLOAD"* press **Enter** to begin the firmware download.
12. The display will show the firmware download progress.
Note: The download may take a several minutes to begin and up to 20 minutes to complete. Data transfer may be confirmed by the flashing light on the USB memory stick.
13. When message *15029-0000 "RE-BOOT CHECK"* is displayed, the firmware download is complete.
14. Power the scale off and remove the USB Memory Stick.
15. Power up the Uni-3. At the Date/Time confirmation screen press **Enter**.
16. If the warning message *15034-0000 "Database Version Is Different"* was displayed at step 10, a memory clear is required.
17. At *S00 OPERATE* press ← (Left Arrow).
18. At *C00 ADJUST* enter the service password **495344** and press **PLU**.
19. Scroll down to *C06 MEMORY CLEAR* using ↓ (Down Arrow) and press **Enter**.
20. At *C06-01 MASTER DATA CLEAR* press **Zero, Zero**.
21. After OK is displayed, press **Mode, Mode, Mode**.
22. At the Date/Time confirmation screen press **Enter**.
23. Load data as needed.

Procedure to convert to 2020 Nutrition data format. See C2271M item 1h for detailed step by step instructions.

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Version C2271M features & changes [28 October 2019]

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

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

Note: 2020 Nutrition data entry is supported from SLP-5 **2.40t**. See the SLP-5 Release Notes for additional details.

[Firmware Database Structure Version: 2.18.1937.4]



Caution

Memory initialization is required when upgrading to this firmware version.

Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C2271M**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear** & **C06-02 System Data Init**. (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271L).

1. Added support to print the new 2020 Nutrition data.
 - a. The nutrition menu has changed to include the new standard nutrition data fields (P10-02 to P10-31) plus five pairs of "free" fields (P10-32 to P10-41) that can be used for miscellaneous additional values.
 - 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 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 (%)

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- Vitamin C (%) → Nutr.Free5 (%)
- Sugar Alcohol → Nutr.Free1 (%)
- e. After installing C2271M, 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 C2271M 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 C2271M. 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 C2271M 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 C2271L features & changes [14 July 2019]

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

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271K).

1. Fixed a bug where the "\$" symbol was displayed as a different symbol on the 16-segment display of the Uni-3L1 model in CR mode. For the 7-segment display of the Uni-3L2 model the unsupported "\$" symbol is left as blank.

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Version C2271K features & changes [7 December 2018]

Use with SLP-5 **2.30** or later ([strongly recommended](#) for compatibility)

Use with SLP-5 Lite **2.30** or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271J).

1. Fixed a bug that caused an "out of range" error if barcode formats 42 to 46 were received from SLP-5. Increased the valid range of barcode formats to 1 to 46.

Version C2271J features & changes [26 July 2018]

Use with SLP-5 **2.30** or later ([strongly recommended](#) for compatibility)

Use with SLP-5 Lite **2.30** or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271H).

1. Disabled the Telnet connection by prohibiting its startup communication as part of the VxWorks OS.
2. Fixed a bug where the fixed weight (ounces) for a Fixed Price item reset to zero if the price was changed using the Fixed Price function key.
3. Fixed a bug where the fixed weight (grams) did not convert correctly from ounces when the X Multiply key was used to change the number of pieces.
4. Fixed a bug where the fixed weight value (ounces) from a previous PLU was printed. This occurred when a fixed price item was called followed by a weighed item which was then changed to a fixed price using the Fixed Price function key and the piece count was changed by the X Multiply key.
5. Fixed a bug where the calculation of the fixed weight (ounces) for a Fixed Price item could incorrectly round down by one ounce when the X Multiply key was used to change the number of pieces.
6. Fixed a bug where the fixed weight (ounces) for a Fixed Price item did not change when the X Multiply key was used to enter the same number of pieces originally programmed in the PLU.

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Version C2271H features & changes [3 July 2018]

Use with SLP-5 2.30 or later ([strongly recommended](#) for compatibility)

Use with SLP-5 Lite 2.30 or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271G).

1. Added an OFFLINE Print ID (776 in SLP-5) that will print a fixed text title on a label when the Uni-3 is offline. The OFFLINE fixed title prints when there was no reply to the latest automatic ping comm check. Any title can be created to print on the label such as "X" or "Offline".
 - a. The designated title only prints if a reply was not received to the latest automatic ping. If a reply is received the title will not print. The results of a manual ping at step B01-03-08 do not affect the title printing.
 - b. Configure the target address for the automatic ping in step B01-03-01 PC IP Address.
 - c. Set the automatic ping interval from 30 to 999 seconds in step B01-03-03 Com Check Period. If the interval is left at the default value of "0" the automatic ping check is not executed and the OFFLINE title will not print.
 - d. SLP-5 must be updated to add the 776 Print ID. Add the Print ID in Setup Utility > Label Format > UNI-3/ UNI-5/ UNI-7/WM-Nano > Print ID Setup.

Version C2271G features & changes [20 April 2018]

Use with SLP-5 2.30 or later ([strongly recommended](#) for compatibility)

Use with SLP-5 Lite 2.30 or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.18.1937.3]

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Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271F).

1. Fixed a bug where an error occurred when Preset keys were sent as part of the Data Distribution from a Master Uni-3 to a Satellite Uni-3.

Version C2271F features & changes [14 February 2018]

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

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

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271E).

1. Added a setting to adjust the Fixed Weight when the number of pieces for Fixed Price items is changed. Step B17-06-05 MULTI. KEY is added in the Setup menu > Operation Settings > Input. These are the Multi. Key settings and operation:
 - 1: STD. Maintains current operation with no fixed weight change (default).
 - 2: FIXWGT. Fixed weight multiplies up and down as the number of pieces is changed.Examples: PLU 1, Quantity = 3, Fixed Weight = 30 oz
 - a. Call PLU 1, change quantity to 6 (by X Multiply key): Fixed Weight changes to 60 oz
 - b. Call PLU 1, change quantity to 1 (by X Multiply key): Fixed Weight changes to 10 oz**Note:** When the number of pieces is reduced the weight calculation will round up to the next whole ounce. For example, 6.6 oz prints as 7 oz.

Version C2271E features & changes [29 November 2017]

C2271E does not include changes that affect the USA.

Version C2271D features & changes [7 November 2017]

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

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

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271B).

1. Added a print delay setting for Fixed Price items. The delay can be set from 0.00 to 9.99 seconds; the default is 0.00. Step B17-03-08 PRN. DLY TIMER is added in the Setup menu > Operation Settings > Timer. The timer is active during the following circumstances:
 - a. The PLU is Fixed Price
 - b. The print mode is set as Auto
 - c. Label type is Continuous
 - d. Peel Sensor is enabled

Version C2271C features & changes [15 September 2017]

C2271C does not include changes that affect the USA.

Version C2271B features & changes [26 June 2017]

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

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271A).

1. Fixed a bug where the ZERO key cleared the tare weight.

Version C2271A features & changes [24 May 2017]

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

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear & C06-02 System Data Init.** (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C2271).

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1. Fixed a bug where the "12" hour was printed as "00" when the Pack Time and Sell By Time were set as 12-hour format with AM/PM.
2. Modified Check Label printing to use the label format assigned to cassette 1 (Program menu > P37 Check Label). Previously label format #1 was used regardless of the format assigned to the cassette.
3. Added a preset key for Fixed Price + Weigh sales mode: #19 (Program menu > P04 Preset Key). This function key can be used to change the price of a Fixed Price + Weigh PLU or change a PLU to Fixed Price + Weigh sales mode.
4. Fixed a bug where the ZERO key was not available when a PLU was set as Fixed Price + Weigh sales mode.
5. Fixed a bug where the cursor remained on the display after editing the Store Name and exiting to operation mode.
6. Fixed a bug where the "P10-00 NUTRI. No." step number and name were missing from the display.
7. Changed the message prompt after editing a label format to "Save Changes?"
8. Corrected a misspelling in the description of step P10-06 Calories From Fat.
9. Fixed a bug where the Markdown preset keys descriptions were incorrect (Program menu > P04 Preset Key).
 - a. P04-01 = 174: -p SP. (U/P)
 - b. P04-01 = 175: -p -\$ (U/P)
 - c. P04-01 = 176: -p -% (U/P)

Known Issue:

- The ZERO key clears the tare weight. Therefore, press the ZERO key prior to calling a PLU.

Version C2271 features & changes [9 March 2017]

Use with SLP-5 **2.20c** or later ([strongly recommended](#) for compatibility)

Use with SLP-5 Lite **2.20c** or later ([strongly recommended](#) for compatibility)

[Firmware Database Structure Version: 2.18.1937.3]



Caution

Memory initialization may be required when upgrading to this firmware version. Use SLP-5 and the Maintenance Utility to backup the scale before upgrading from any firmware prior to **C1937S**. Due to significant changes in the memory structure, after firmware installation a standard memory clear will be necessary: **C06-01 Master Data Clear** & **C06-02 System Data Init**. (Adjust menu, Memory Clear).

The following lists the main changes from the previous version (C1937Y).

Note: Refer to the C1937x Release Notes for previous update details.

1. Added a two new barcode formats to B14-02-05 POS Weight and B14-02-06 POS Fixed Price (Setup menu > Barcode > POS Code).
 - 45: Weighed item: FCCCCCWWWWW(c/d)
 - Fixed Price Item: FCCCCCQQQ000(c/d)
 - F: POS Flag, 1-digit
 - C: POS Code, 5-digits

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W: Weight, 6-digits
Q: Quantity, 3-digits
0: Fixed "0" (zero), 3-digit
c/d: Check Digit

Notes: a. The format changes based on the PLU Sales Mode.
b. The last three digits after the quantity are fixed as "000".

46: Weighed item: FFCCCCCWWWWW(c/d)

Fixed Price Item: FFCCCCCQQ000(c/d)

F: POS Flag, 2-digits
C: POS Code, 5-digits
W: Weight, 5-digits
Q: Quantity, 2-digits
0: Fixed "0" (zero), 3-digit
c/d: Check Digit

Notes: a. The format changes based on the PLU Sales Mode.
b. The last three digits after the quantity are fixed as "000".

2. Added a password function for the VOID key at step B17-06-04 Void Password (Setup menu > Operation Settings > Input).
 - a. The VOID key deletes the last transaction from the scale's memory.
 - b. The default password is "0" (zero).
 - c. Up to a 6-digit password may be assigned.
 - d. If a password is assigned it must be entered before pressing the VOID key. If the correct password is not entered the scale will beep when the VOID key pressed.