

C2559x MAIN FIRMWARE RELEASE NOTES

Uni-3 Series

Firmware **C2559x** supersedes **C2271x** as the new 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.
 - A compatible USB memory stick PN 160906 is available from Rice Lake.
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 C2559B

Release Date: September 2025

Use with SLP-5 **2.64** or later ([strongly recommended](#) for compatibility)

Use with SLP-5 Lite **2.60c** or later ([strongly recommended](#) for compatibility)

Note: 2020 Nutrition data entry is supported from SLP-5 **2.40t** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.

Related Programs

Main: **C2560B**
OS: B0715K
BOOT ROM: B0714A
Scale Driver: B0726
Updater: B0727



Caution

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

Use SLP-5 and the Maintenance Utility to back up the scale before upgrading from any firmware prior to **C2271Z**. 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). [2.18.1937.6]

IMPORTANT: This firmware must be loaded by booting off a USB in order to correctly load the updated OS B0715K if the update is not already installed. See the instructions on the first page to install the firmware.

A bootable USB is available from Rice Lake (PN 160906) if the Uni-3 does not recognize standard USB drives.

The following lists the main changes from the previous version (C2559A).

1. Added support for WPA2 TKIP encryption when Silex SX-590 wireless card (white antenna) is installed. That is, when B01-04-06 DEVICE is set as 2: SX (B00 Setup menu → B01 Machine No. → B01-04 WiFi).
2. Fixed a bug where the SX wireless card could not connect through a gateway router to a WAN (wide area network). The SX-590 configuration is changed to "Fixed MAC Address Mode" where the scale's MAC address is registered on the wireless card.
3. Fixed the description at step B01-04-01 to display "WPA PSK".

Version C2559A

Release Date: December 2024

Use with SLP-5 **2.64** or later ([strongly recommended](#) for compatibility)

Use with SLP-5 Lite **2.60c** or later ([strongly recommended](#) for compatibility)

Note: 2020 Nutrition data entry is supported from SLP-5 **2.40t** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.

Related Programs

Main: **C2560A**
OS: **B0715K**
BOOT ROM: B0714A
Scale Driver: B0726
Updater: B0727

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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 **C2271Z**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2559).

1. Updated the OS to version B0715K to support the revised CPU board PS-990G. This firmware may be used for both older and revised boards.

IMPORTANT:

This firmware must be loaded by booting off a USB in order to correctly load the updated OS. See the instructions on the first page to install the firmware.

A bootable USB is available from Rice Lake (PN 160906) if the Uni-3 does not recognize standard USB drives.

2. Added new Code 128 barcode format to B14-02-04 FMT NoAi (Setup menu > Barcode > POS Code).

23: F2C5WQ5U5

FFCCCCCWWWWUUUUUU (weighed item)

FFCCCCCQQQQUUUUUU (fixed price item)

F: POS Flag, 2-digits

C: POS Code, 5-digits

W: Weight, 5-digits

Q: Quantity, 5-digits

U: Unit Price, 5-digits

- Notes:**
- a. The barcode contents change based on the PLU Sales Mode.
 - b. For Sales Mode 2:WGT F/PRI the UUUUU value is the calculated unit price.
 - c. If the Weight, Quantity, or Unit Price exceed the number of digits the barcode will not print.

Version C2559

Release Date: July 2024

Use with SLP-5 **2.64** or later (strongly recommended for compatibility)

Use with SLP-5 Lite **2.60c** or later (strongly recommended for compatibility)

Note: 2020 Nutrition data entry is supported from SLP-5 **2.40t** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.

Related Programs

Main: **C2560**

OS: C2545

BOOT ROM: B0714A

Scale Driver: B0726

Updater: B0727



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 **C2271Z**. 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). [2.18.1937.6]

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The following lists the main changes from the previous version (C2271Z).

1. Firmware C2559x is the continuation of Uni-9 firmware C2271x.
2. Added support for "Times" font.
 - a. In the Maintenance Utility set Font Size as "Ext. Font" and Font Family as "Times".
 - b. Available Font Heights: 8, 10, 12, 14, and 24 dots.
 - c. Available Font Types: Normal, Bold.

Version C2271Z

Release Date: December 11, 2023

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.

Related Programs

Main: C2272X
OS: **C2545**
BOOT ROM: B0714A
Scale Driver: B0726
Updater: B0727



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 **C2271Z**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271Y).

1. Updated the OS to version C2545 to disable WDB target agent of debug service of OS (VxWorks) that caused the Uni-3 to fail a PCI compliance scan.

IMPORTANT: This firmware must be loaded by booting off a USB in order to correctly load the updated OS. See the instructions on the first page to install the firmware.

A bootable USB is available from Rice Lake (PN 160906) if the Uni-3 does not recognize standard USB drives.

Version C2271Y

Release Date: November 9, 2023

C2271Y does not include changes that affect the USA.

Version C2271X

Release Date: May 1, 2023

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.

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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 **C2271X**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271W).

1. Added a new Code 128 barcode format to B14-02-04 FMT NoAi (Setup menu > Barcode > POS Code).

22: F2C5WQ4P5

FFCCCCCWWWWPPPPP (weighed item)

FFCCCCCQQQQPPPPP (fixed price item)

F: POS Flag, 2-digits

C: POS Code, 5-digits

W: Weight, 4-digits

Q: Quantity, 4-digits

P: Total Price, 5-digits

- Notes:**
- a. The barcode contents change based on the PLU Sales Mode.
 - b. This barcode format is intended for single-range weighing.
Example: 0.50 lb is 0050, 25.50 lb is 2550.
 - c. If the scale is configured for multi-range weighing the barcode does not print when the weight is 10 lb or greater due of the lack of available digits.
Example: 0.500 lb is 0500, 25.50 lb does not print a barcode

Version C2271W

Release Date: March 8, 2022

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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 **C2271W**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271V).

1. Added support for the Silex SX-590 wireless card in addition to the Lantronix WiPort.
 - a. Step B01-04-06 DEVICE was added to the WiFi setting menu (Setup menu > Machine No.> WiFi) to select between 1: WiPort (default) and 2: SX.
 - b. The SX-590 card supports the following encryption.
 - 3: WEP128
 - 6: WPA PSK (personal) TKIP
 - 9: 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.

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- e. For identification purposes, scales with the Silex SX-590 installed from the factory use a white antenna.
- f. When conducting a Ping to PC (B01-03-08) from a Uni-3 with the SX-590 wireless card, it may fail the first time. If this happens perform the ping again. This does not occur when pinging from a computer to the Uni-3.

Version C2271V

Release Date: October 11, 2021

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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 **C2271R**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271U).

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).

48: F2C4WQ63d

FFCCCCWWWWW(c/d) (weighed item)

FFCCCCQQQ000(c/d) (fixed price item)

F: POS Flag, 2-digits

C: POS Code, 4-digits

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".

49: F1C5WQ63d

FCCCCWWWWW(c/d) (weighed item)

FCCCCQQQ000(c/d) (fixed price item)

F: POS Flag, 1-digit

C: POS Code, 5-digits

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".

2. Added a two new EAN128 barcode formats to B14-02-03 Format AI and B14-02-14 Subtotal Format AI (Setup menu > Barcode > POS Code).

20: GTIN+W+UP

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(01)GTIN 14-digits (310x)Weight 6-digits (8005)UP 6-digits

21: GTIN+W

(01)GTIN 14-digits (310x)Weight 6-digits

Note: The weight and AI code change based on the decimal point position specified in step B14-02-13: DP POS AI.

Example: 0: 3 Digit 12.000 kg → (3103)012000

1: 2 Digit 12.000 kg → (3102)001200

2: 1 Digit 12.000 kg → (3101)000120

3. Fixed a bug where the AI subtotal barcode printed the weight 100 times greater than the actual value due to an incorrect decimal point position.

Version C2271U

Release Date: June 4, 2021

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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 **C2271R**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271T).

1. Added a new barcode format to B14-02-05 POS Weight and B14-02-06 POS Fixed Price (Setup menu > Barcode > POS Code).

47: F1C3W3P5cd

FCCCWWPPPPP(c/d) (weighed item)

F: POS Flag, 1-digit

C: POS Code, 3-digits

W: Weight, 3-digits

P: Price, 5-digits

c/d: Check Digit

Notes: a. The POS Code uses the last three digits of the PLU's programmed barcode.
b. The Weight digits are determined as follows:

0.001 kg → 000

0.010 kg → 001

0.100 kg → 010

1.000 kg → 100,

10.000 kg → 100

c. If the price exceeds five digits the barcode does not print.

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Version C2271T

Release Date: August 18, 2020

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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 **C2271R**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271S).

1. Fixed a bug where the leading digits were displayed twice when entering a numeric value in operation mode when the scale is configured for 8-digit total price (B00 Setup menu > B26 Country > B26-01-03 Detail > B26-02 Currency > B26-02-04 = 2)

Version C2271S

Release Date: July 7, 2020

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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 **C2271R**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271R).

1. Changed the print format of the date data in the DETAIL BAR (QR) code [Print ID 782] to follow the date format in the Country settings (B00 Setup menu > B26 Country > B26-01-03 Detail > B26-04 Date > B26-04-01 Date Format and B26-04-02 Year Type)
Example: With "MDY" and "YY", May 24, 2020 is 052420; "YMD" and "YYYY" is 20200524.
2. Modified to recognize a reboot command after a firmware download from SLP-5 Maintenance Utility is complete. Although it is possible to download firmware using the Maintenance Utility, it is strongly recommended to update firmware using a USB memory stick.

Version C2271R

Release Date: June 12, 2020

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.

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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 **C2271R**. 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). [2.18.1937.6]

The following lists the main changes from the previous version (C2271P).

1. Fixed a bug where some data were missing (blank) or in the wrong position when Scale Config Data was received from the scale in to SLP-5 Maintenance Utility.
 - a. Backup data on a USB to be restored after the firmware update: Setup menu > B27 File Save / Load. Do not use an .ABK files to restore data after updating to firmware C2271R. Previous .ABK backup files from older firmware are not compatible with C2271R.

Version C2271P

Release Date: May 25, 2020

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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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 **C2271N**. 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). [2.18.1937.5]

The following lists the main changes from the previous version (C2271N).

1. Added a preset key for Sleep mode: #177 (Program menu > P04 Preset Key). This function toggles the displays off and on. The customer display is completely blank while the operator display backlight shuts off. The third triangle mark from the left on the operator display indicates the Sleep mode is active.
2. Updated the 2020 Nutrition data entry screens (Program menu > P10 Nutrition) to include "(w)" for weight and "(%)" for percentage to clearly identify the value being entered.
3. Fixed a bug where, after entering each nutrition value, the screen returned to the first step P10-01.
4. Fixed a bug where some characters remained on the display after entering nutrition text.
5. Fixed a bug where the last digit of the Date did not print if the character pitch was set as zero (0).

Version C2271N

Release Date: December 4, 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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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 **C2271N**. 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). [2.18.1937.5]

The following lists the main changes from the previous version (C2271M).

1. Added an option to automatically adjust a continuous label length to accommodate a logo image. A third option 2: Auto, in the Cassette configuration is provided for Safe Handling Image, Logo 1, Logo 2, and Logo 3. Steps are B11-21 to B11-24 in the Setup menu.
0: FIXED. A fixed height is allocated on the label. (default)
1: VARIABLE. The label adjusts based on the height value set in steps B11-25 to B11-28.
2: AUTO. The label adjusts automatically based on the image height.

Notes when using Auto:

- a. Do not specify an image in the label format, leave as "Default Logo".
 - b. To print the SH Image, the image number must be specified in a PLU (P01-04-05) and the Safe Handling Image Print must be enabled (P01-04-06).
 - c. To print a Logo 1, 2, or 3, the image number must be specified in a PLU (P01-04-01 to P01-04-03).
2. Added a setting to change the key input position on the display. This is to avoid confusion regarding the total price. Step B17-06-06 INPUT POS. is added in the Setup menu > Operation Settings > Input.
1: PRI POS. Key entry position is at the Unit Price display. (default)
2: UPR POS. Key entry position is at the Unit Price display.
 3. Added support for reboot command.
 4. Added QR code printing function. Three types of data can be selected. SLP-5 currently does not include settings to support the QR codes; the settings must be entered either manually or by loading a config file. Refer to ***SLP-5_Load_Uni-3_QR_Label_Config_File-7July22.pdf*** for details to install the ***SLP-5_Uni-3_QR_Code_Label_Format_Settings_3June2022.sit*** label config file. Also, see the ***SLP-5_2.50i_Uni-3_QR_Code_21Jun2022.lib*** label library.
 - a. FREE (QR) [Print ID: 780]
Print the contents of Extra Message 3, message number 99999999. This acts like a "fixed" QR code to link to a store's web site, etc.
 - b. EXTRA MSG.3 (QR) [Print ID: 781]
Prints the contents of the Extra Message 3 linked to a PLU. This can be used to link to a web site with additional information such as a recipe, cooking instructions, ingredients, or nutrition data.
 - c. DETAIL BAR (QR) [Print ID: 782]
The following data are printed for the transaction. The data can be used in various ways such as determining if a package is expired based on the sell by date.
 1. UPC Flag Code: 2 digits
 2. Operator*: 3 digits
 3. Total Amount**: 8 digits
 4. PLU Number: 6 digits
 5. Weight or Pieces: Weight (8 digits), Pieces (5 digits) + 000
 6. Total Price**: 7 digits
 7. Sell By Date: 8 digits DDMMYYYYTotal Digits: 42

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* If there is no operator the value 000 is used.

** 3. Total Amount and 6. Total Price are the same for individual labels.

Notes for QR code:

- a. The QR Code automatically prints larger to accommodate an increased amount of data. Therefore, the QR Code should be placed with sufficient space to the right and below to allow for expansion.
- b. If the QR Code does not have space to expand to accommodate all the data, error 0713 "Too many characters on format for Printer 1" will occur. The error sub number identifies the QR Code:
 - 0780 Free QR
 - 0781 Extra Message 3 QR
 - 0782 Detail QR.
- c. Always confirm the Bar Magnification and QR Code Size (mm) are sufficient to print all the data (characters). Data will be cut if the size is too small. An "x4" magnification and 18.0mm are a good starting point.
- d. FREE (QR) and EXTRA MSG.3 (QR) may contain a maximum of 99 chars.
- e. Use good quality labels and increase the Print Density as needed to achieve a scannable QR code (C00 Adjust menu > C07 Printer > C07-03 Label Type > C07-03-02 Density).
- f. Due to the resolution of the Uni-3 thermal print head, the quality of the QR code cannot be guaranteed to be readable. The QR code printing is provided as is. Rice Lake and Ishida cannot be held responsible for any issues arising from this feature.

Version C2271M

Release Date: October 28, 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** and SLP-5 Lite **2.50a**. See the SLP-5 or SLP-5 Lite Release Notes for additional details.



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). [2.18.1937.4]

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.

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- 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 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

Release Date: July 14, 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)



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). [2.18.1937.3]

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.

C2559x MAIN FIRMWARE RELEASE NOTES

Uni-3 Series

Version C2271K

Release Date: December 7, 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)



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). [2.18.1937.3]

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

Release Date: July 26, 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.

IMPORTANT: This firmware must be loaded by booting off a USB in order to correctly load the updated OS. See the instructions on the first page to install the firmware.

A bootable USB is available from Rice Lake (PN 160906) if the Uni-3 does not recognize standard USB drives.

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.

C2559x MAIN FIRMWARE RELEASE NOTES

Uni-3 Series

Version C2271H

Release Date: July 3, 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)



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). [2.18.1937.3]

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.

Edit Print ID

Name: Offline (Uni-3)

Short Name: Offline (Uni-3)

Code: 776

Special Meaning: None

Unit Type: Fixed Text

OK Cancel

Version C2271G

Release Date: April 20, 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)



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). [2.18.1937.3]

C2559x MAIN FIRMWARE RELEASE NOTES

Uni-3 Series

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

Release Date: February 14, 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)



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). [2.18.1937.3]

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

Release Date: November 29, 2017

C2271E does not include changes that affect the USA.

Version C2271D

Release Date: November 7, 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)



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). [2.18.1937.3]

C2559x MAIN FIRMWARE RELEASE NOTES

Uni-3 Series

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

Release Date: September 15, 2017

C2271C does not include changes that affect the USA.

Version C2271B

Release Date: June 26, 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)



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). [2.18.1937.3]

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

Release Date: May 24, 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)



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). [2.18.1937.3]

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

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.

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Uni-3 Series

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

Release Date: March 9, 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)



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). [2.18.1937.3]

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: FCCCCCWWWWWW(c/d)

Fixed Price Item: FCCCCCQQQ000(c/d)

F: POS Flag, 1-digit

C: POS Code, 5-digits

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.

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Uni-3 Series

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.



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