Samsung SPS-300 Series

PC Utility
User's Manual

SPS-300 Series PC Utility v1.3

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Introduction

About the SPS-300 PC Utility

The SPS-300 PC Utility provides basic PC communication functions for Samsung SPS-300 Series ECRs: SPS-320, SPS-340, and SPS-345. This utility was designed primarily as a dealer tool - to save, edit, and download programs.

Note: The SPS-300 PC Utility supports direct onsite serial connection to the ECR or Modem communications via a phone line.

SPS-300 Series PC Utility Features

- Support Multiple Stores
- Save and Load ECR programs
- Edit ECR programs
- Convert and Download Logo bitmap images for the receipt
- Modem connection over a wired phone line

Note: The SPS-300 Series PC Utility was developed to work best with a screen resolution of at least 1024 x 768 pixels.

Getting Started

Setting the SPS-300 RS-232C Port

At the SPS-300 Series ECR, you must select 'PC' as the device that is attached to one of the available RS-232C communications ports.

1. At the **S** control lock position menu, press **8** for RS232C programming. The port selection screen displays:

```
            RS232 PORT

1. RS232 PORT 1
2. RS232 PORT 2
3. RS232 PORT 3
4. RS232 PORT 4
```

2. Enter the digit (1-4) corresponding to the port you wish to program. The appropriate **PORT PROGRAM** screen displays:

```
        PORT 1 PROGRAM PG1
BAUD RATE                          0←
 0:9600   1:1200   2:2400
 3:4800   4:19200  5:38400
 6:57600  7:115200
PARITY CHECK                       0
0:NONE   1:ODD   2:EVEN
DATA BITS(0:8 1:7)                 0
```

3. Set the **BAUD RATE** to match the setting used in the SPS-300 PC Utility, set **PARITY CHECK** setting to **"0"** for **NONE** and **DATA BITS** setting to **"0"** for **8** data bits.

4. Press **PAGE DOWN** to view page 2 of the RS232C port program:

```
        PORT 1 PROGRAM PG2
STOP BITS(0:1 1:2)              0←
DEVICE FUNCTION                 1
--------------------------------
0:NONE     1:PC       2:SCL
3:RJ       4:RP       5:LIQUOR
6:SCAN     7:COIN     8:RESERVED
9:POLE    10:EFT     11:PDC
```

5. Set the **STOP BITS** setting to **"0"** for **1** stop bit.

6. Press **ENTER** to select the **DEVICE FUNCTION** field. Press "**1"** to select PC as the device function and press the **CLEAR** key to exit and save changes.

Installing the Utility

The SPS-300 PC Utility can be downloaded from the SPS-300 Series page in the Dealer Area on the CRS Web Sote at: http://crs-usa.com/DEALER/deal300.asp

1. Download and extract the SPS-300 PC Utility to a folder on your hard drive.
2. From Windows Explorer, locate the file: setup300.exe. Double click the file to open the installation dialog box.
3. Follow the instructions to complete the installation.

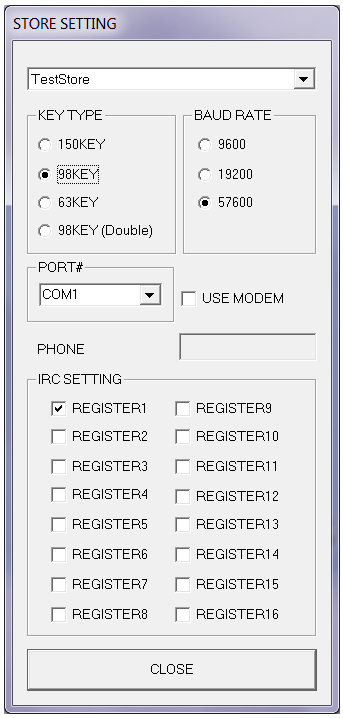
Starting the PC Utility

1. Choose **Start, Programs**, **SHC PC Utility** and then **300PC.** The Store Setting dialog box displays.
   (If you are starting the utility for the first time, you will be prompted to first add a store. Enter the Store Name and press OK.)
2. Select the store you wish to open from the Store Settings drop-down list box and click the **Close** button. The **SPS-300 PC Utility** main screen is displayed.

Note that the current store information shows on the bottom line on the main screen

Store Settings

There is no limit to the number of stores you can save with the SPS-300 PC Utility. If you are starting the utility for the first time, you will be prompted to first add a store. Enter the Store Name and press OK; The STORE SETTING Dialog Box displays.



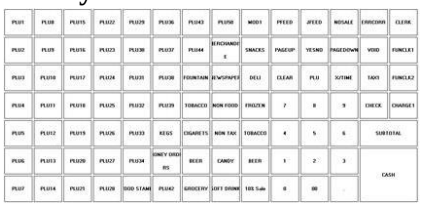
If you have more than one store saved, select the store you wish to open from the Store Setting drop-down list box.

Key Type

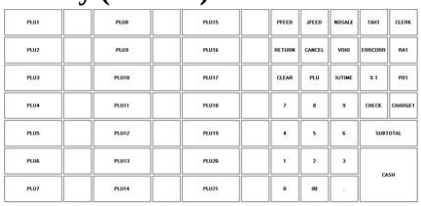
You must select the correct keyboard that corresponds with the register you are using:

- Note: The 63-key keyboard is not used.
- Select the 150-key flat keyboard for the ER-920 or ER-940.
- Select the appropriate 98-key keyboard for the ER-925 or ER-945.

98-Key



98-Key (Double)



Use 98-Key for the expanded Raised Keyboard

Use 98-Key (Double) to the default double-wide 21 PLU raised keyboard.

Baud Rate

Set the baud rate for communication to the ECR, this setting must match the baud rate stting as set on the ECR RS-232 port setting.

PORT#

This is the PC COM Port you are using to connect to the ECR.

Use Modem

Only check this option if you are connecting to a telephone modem to remotely connect to the store via modem connection. Special modems settings need to be configured on both the store and remote location modems.

Phone

This is only used with modem connections; enter the phone number for the stores modem on site that is connected to the ECR.

IRC Setting

Check all registers that are connected in the register's IRC network. If using a single standalone register, only register 1 would be checked.

Selecting a Store

- Select the working store you wish to open from the Store Setting drop-down list box when you start the utility.
- To change the working store after the utility has been started, choose **Setup Store** from the **Setup** menu and select a different store from the drop-down list box.

Adding a Store

- Choose **Add Store** from the **Setup** menu. At the **Add Store** dialog, enter the store name and click **OK**. At the **Store Setting** dialog, select the model, PC port, baud rate and IRC setting then click the **CLOSE** button.

Removing a Store

- Choose **Remove Store** from the **Setup** menu. At the **Remove Store** dialog, select the store name to remove and click **OK** to remove the store, select **Cancel** to close the windows without removing the store.

Upload/Download Programs

UpProgram

Upload a program before beginning program edit functions.

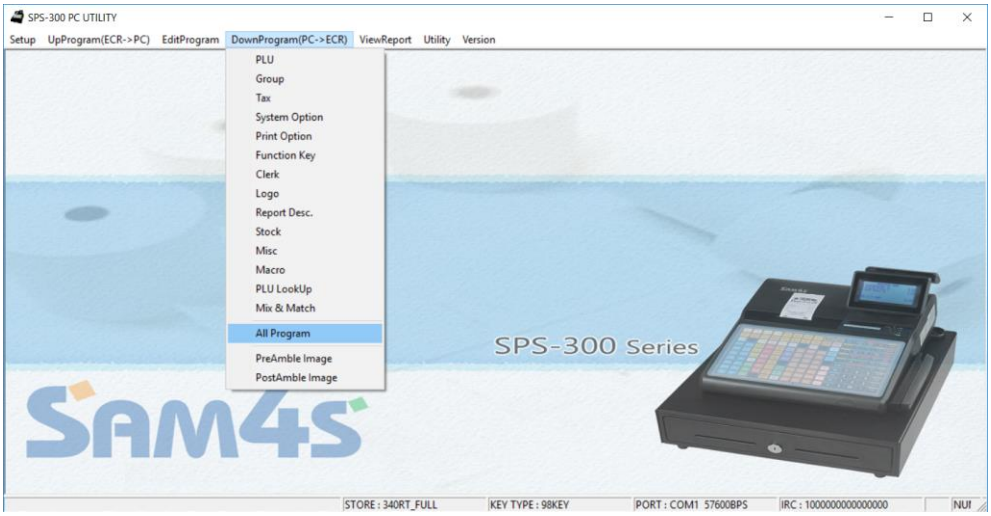
- Select the specific program segment you wish to upload from the **UpProgram (ECR->PC)** menu, or select **All Program** to upload the entire register program.

DownProgram

The Memory Allocation on the ECR must be set to properly to accept the store program file being downloaded. You must enter the memory allocation manually at the register before downloading. We cannot download memory allocation from the utility.

Downloading a program from the SPS-300 PC Utility will overwrite the existing register program.

- Select the program segment you wish to download from the **DownProgram** menu, or select **All Program** to download the entire register program (not including PreAmble and PostAmble images, that are downloaded separately.)



Edit Programs

Procedures

With the exception of memory allocation, all register programs can be edited with the SPS-300 PC Utility. You will find options neatly organized on dialog boxes, making option programming on the PC Utility more efficient than programming options at the register.

- **You must upload a program before program edit functions are allowed.**

1. To edit a program, choose the appropriate program from the **EditProgram** menu. An example of each program dialog box is shown in this chapter.
2. After edits, click **Save** to exit and save changes, or click **Cancel** to exit without saving changes.

Tips

- Each individual Store's data is located in a separate folder within the main SPS-300PC folder on your local drive.
- If you are building a new register program based upon an existing store, you can copy an existing store's program files to a new store folder. It is often more efficient to modify an existing program than to start over with a new one.
- If you are building a large PLU file with identical (or similar) options for each PLU, you may find the from/to PLU programming at the register useful. For example, you can first program the identical options for a range of PLU's at the register. Then upload the PLU program with the utility. Use the utility to program descriptors, prices and make adjustments to each PLU individually. Finally, you can download the completed program to the register.
- If you have questions regarding the meaning of ECR features and options, refer the *SPS-300 Operator's and Programming* manual for an explanation of your program options.

Program Edit Screens

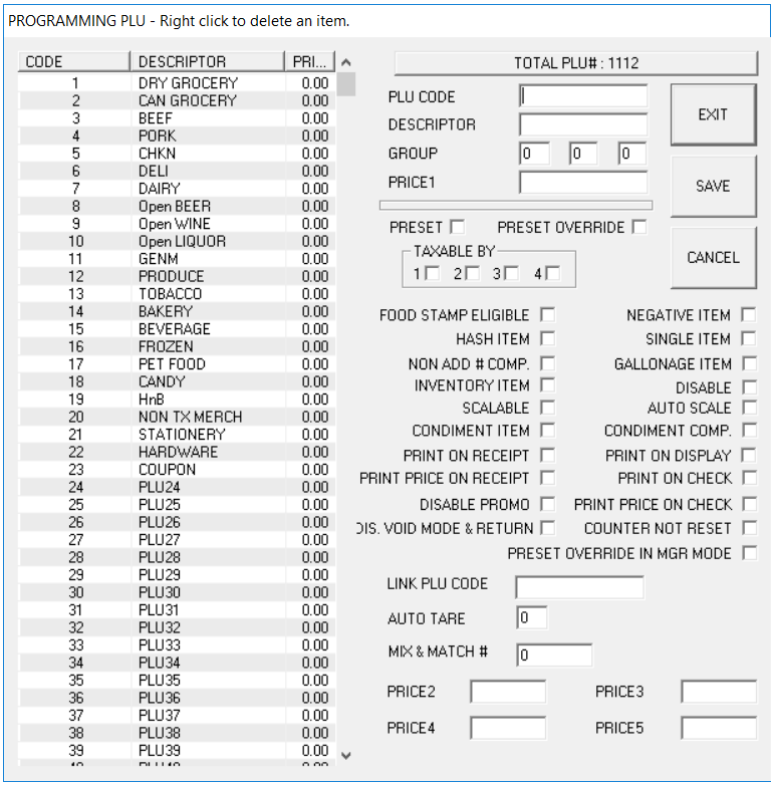
From the *EditProgram* menu, select a specific program area to edit that part of an existing SAM4s *SPS-300* series ECR program. Remember that the program options in this program allow you to edit the same program options that you set on the Sam4s SPS-300 series ECR through the register's keyboard.

Definitions for the specific options on the various programming screens are best answered by referring to the *SAM4s SPS-300 Operator's and Program Manual*.

Note: ***When editing descriptor fields, you can make bold characters print on the ECR by entering a tilde (~) before each character that you wish to be bold. Each bold character occupies two character positions***.

PLU

The PLU file is maintained here. Refer to the *SAM4s SPS-300 Operator's and Program* for a complete description of the PLU program options.



Simply click on the PLU you wish to edit from the list of PLU's and edit the Descriptor, Group assiginment, Price, and other options as needed. Click on **SAVE** when you have finised editing.

You can also click in the **PLU CODE** box and enter the number of the number of the PLU you wish to edit then press the enter key on your keyboard. That PLU will display, edit the PLU as needed, click **SAVE** when you have finised editing.

If you are entering in scanned items into the database, click in the **PLU CODE** box and scan the product you want to add to the PLU database. Edit the PLU as needed, click **SAVE** when you have finised editing.

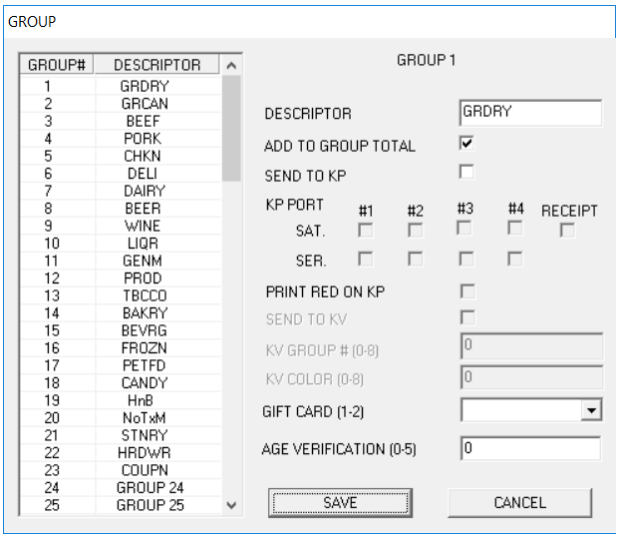
When all items have been added and edited as needed, press **EXIT** to return to the main menue screen.

Groups

Group descriptor and options for each group are progrmmed here. (The number of groups is determined in the register's memory allocation, you can allocate up to a maximum of 99 groups.)

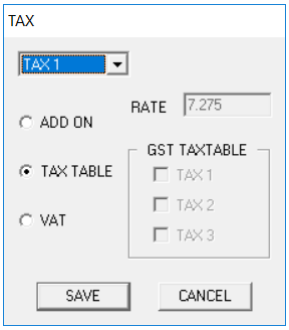
Select a group from the list to edit the options as needed for that group; refer to the *SAM4s SPS-300 Operator's and Programming Manual* for a complete description of your program options.

Click the **SAVE** button when you have finished editing your groups to return to the main menue screen.



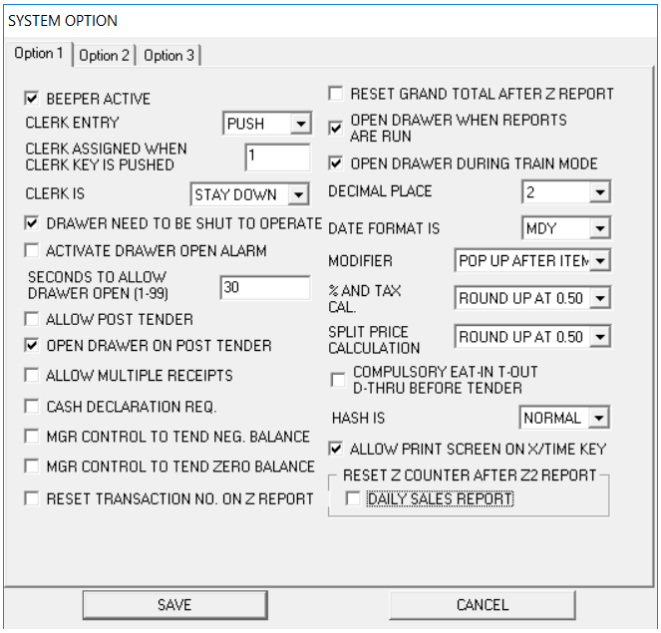
Tax

Each of the 4 possible taxes can be set for an add-on percentage, tax table or VAT. Tax 4 has the additional option to be set as GST Ttaxable as well. Follow the instructions on the screen, or refer to the *SAM4s SPS-300 Operator's and Programming Manual* for a complete description of your program options.



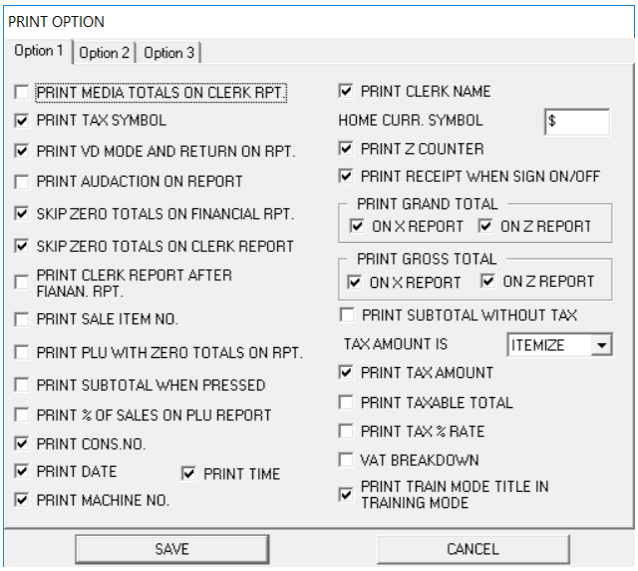
System Option

Each system option can be enabled or disabled; check the options you want to enable or uncheck to disable the option. Refer to the *SAM4s SPS-300 Operator's and Programming Manual* for a complete description of your program options.



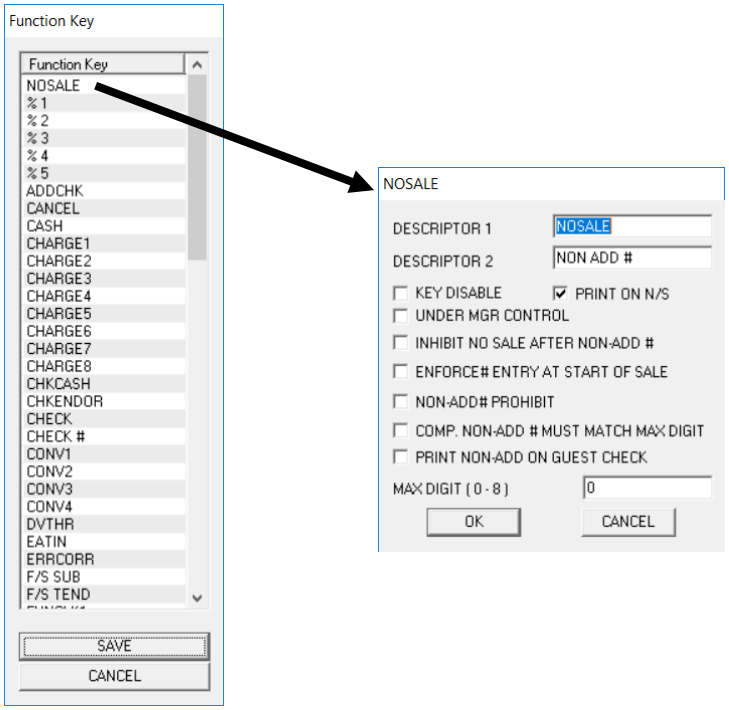
Print Option

Each print option can be edited. Check the option to enable that option or uncheck to disable the option. Refer to the *SAM4s SPS-300 Operator's and Programming* for a complete description of your program options.



Function Key

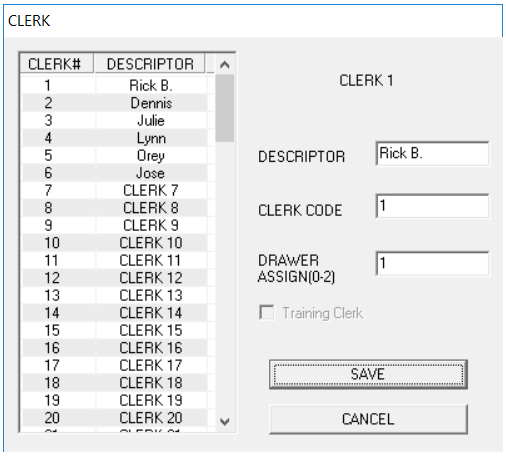
You can program the different options for each function key. Follow the instructions on the screen, or refer to the *SAM4s SPS-300 Operator's and Programming Manual* for a complete description of your program options.



Clerk

Clerk descriptor (name) and options are set here. The total number of clerks is determined by the memory allocation set in the ECR. You can allocate memory for a maximum of 99 Clerks.

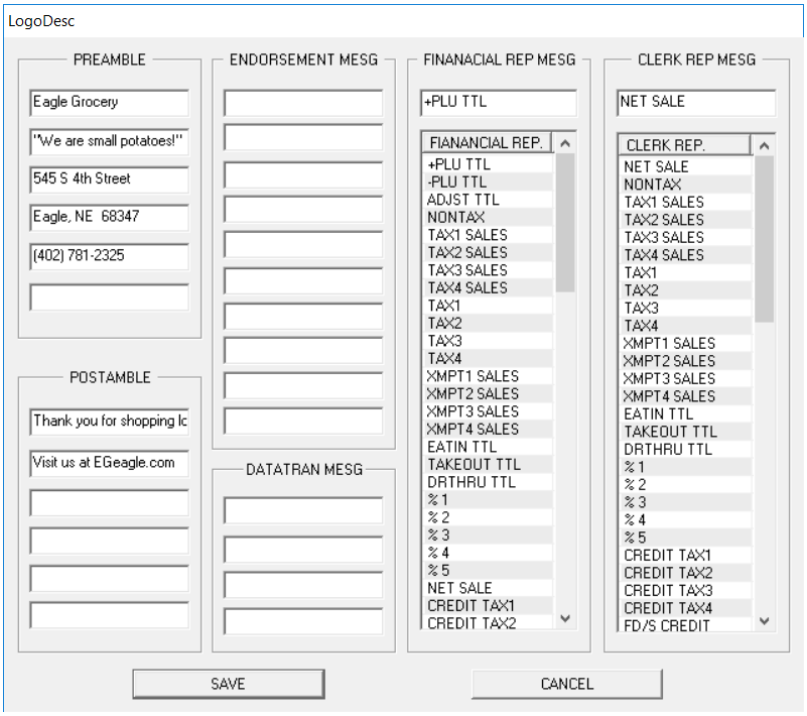
Follow the instructions on the screen, or refer to the *SAM4s SPS-300 Operator's and Programming Manual* for a complete description of your program options.



Logo/Descriptors

You can program a custom preamble, postamble messages to print on customer receipts. You can also program the check endorsement message and DataTran message.

Unique descriptors for certain financial and clerk report totals can be programmed here as well.

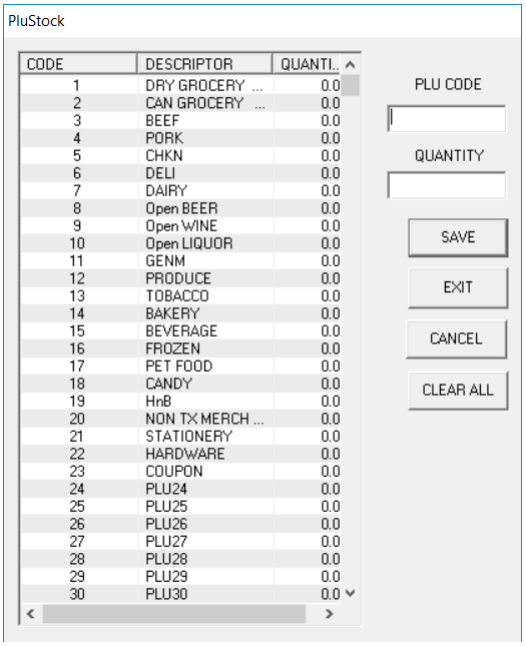


PLU Stock

Upload stock from the ECR first. All PLU's flagged as an Inventory Item will populate this screen. For stock items, edit quantities as needed, and then download to the ECR.

1. Choose **Stock** from the *EditProgram* menu. The *PLU Stock* dialog box displays with a list of all PLU's flagged as an Inventory Item and their current stock quantities.
2. You can edit quantites here; two decimal places is assumed on quantities. (To enter a quantity of 100 you need to enter 10000 or enter quantity with the decimal 100.00).
3. Press **SAVE** after entering your quantity. Continue editing as necessary.
4. When editing is complete, click **EXIT** to return to the main screen.

These Stock quantities can then be sent to the register from *DownProgram (PC->ECR)* menu. Depending on the system option setting for Inventory Count Program, the quantities will either add to the current stock or replace the current stock quantities.



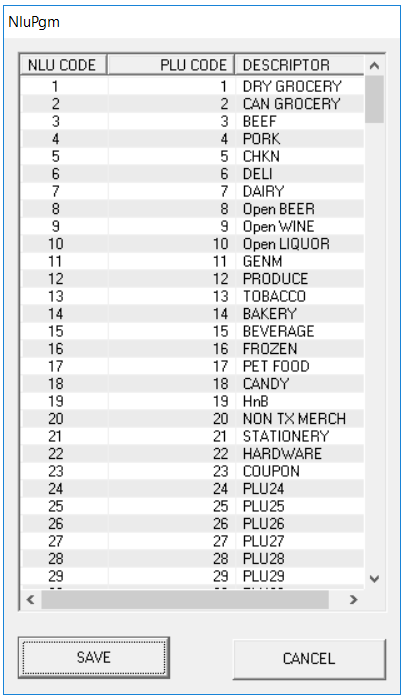
NLU

NLUs are keys on the keyboard (like traditional department keys) used to access specific PLU's. NLU#1 through NLU#300 are available for assignment to the keyboard.

On the default keyboard on the SPS-325/345 ECR's (raised keyboard) have 21 NLU keys and can be expanded to 63 NLUs. The SPS-320/SPS-340 ECR's (flat keyboard) have 100 NLUs on the default keyboard.

Each NLU key is assigned the same corresponding PLU number, ***i.e.*** NLU key number one is assigned PLU #1.

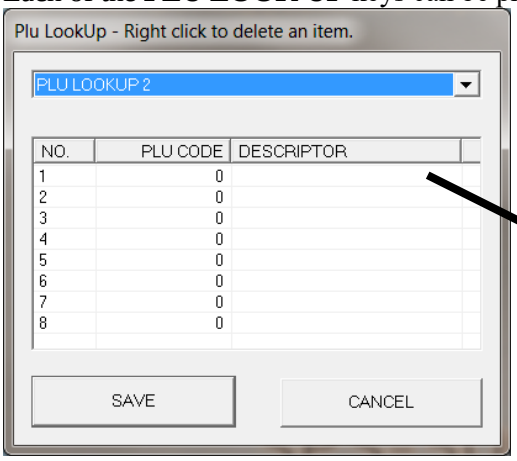
However, with this program you can assign any PLU number you wish to any one of the NLU keys. PLU's must be programmed into the database before you are able to assign the PLU to the NLU key.



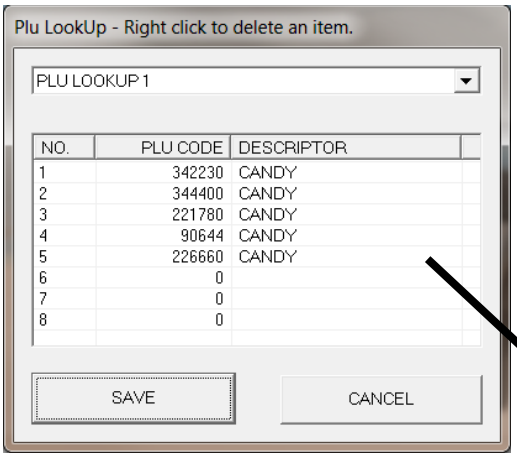
1. Use the scroll box at the right of the screen to view all of the NLUs.
2. Click on the NLU you wish to edit, the PLU list displays.
3. Scroll through the PLU list and click on the PLU you want to assign to the selected NLU key or press CANCEL to not change the current PLU/NLU assignment.
4. Click **SAVE** to save changes and return to the main menu.

PLU LookUp

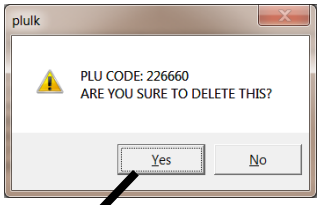
Each of the **PLU LOOK UP** keys can be programmed here to list specific PLU's

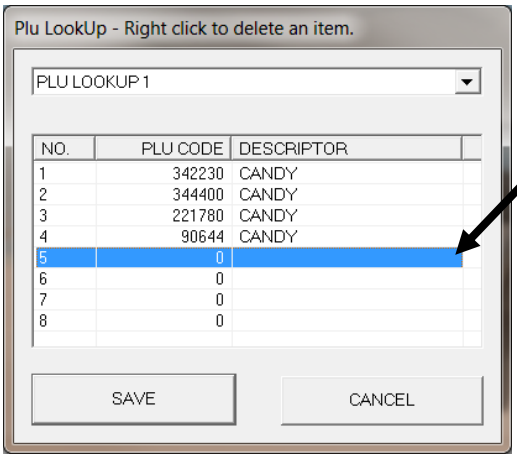


To add item to a PLU LookUp: Left-click on the line you wish to add an item to, then select the PLU you want to add to the Look Up



To delete item from a PLU LookUp: Right click on the line you wish to delete. Select **Yes**. The item is deleted.

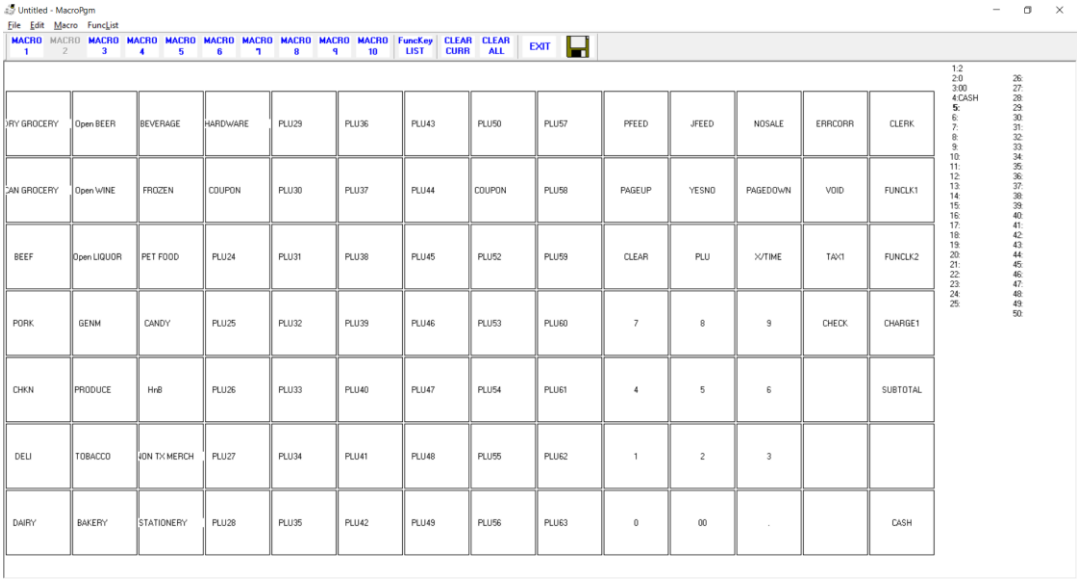




Macro

The Macro programming screen allows easy programming of Macros using the keyboard layout display.

Simply select the Macro number from the top row of the screen and press the keystrokes for the Macro from the display. As shown in the example below; Macro 2 was setup for a $20 speed Tender key by pressing **2 0 00 CASH**.



If you make a mistake during Macro programming you can clear an entry by pressing the **CLEAR CURR** button or press the **CLEAR ALL** to clear all keystrokes and begin anew.

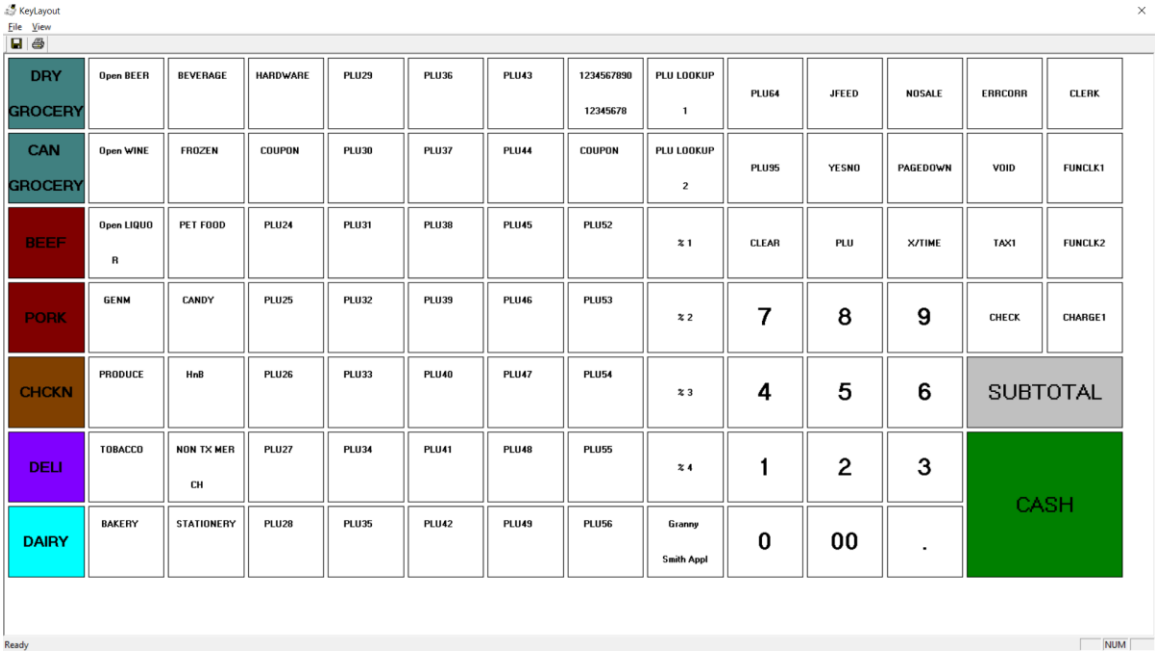
When you have completed the programming for your Macro's press the icon to save your edits.

Press **EXIT** to return to the main screen of the SPS-300 PC Utility.

Key Layout

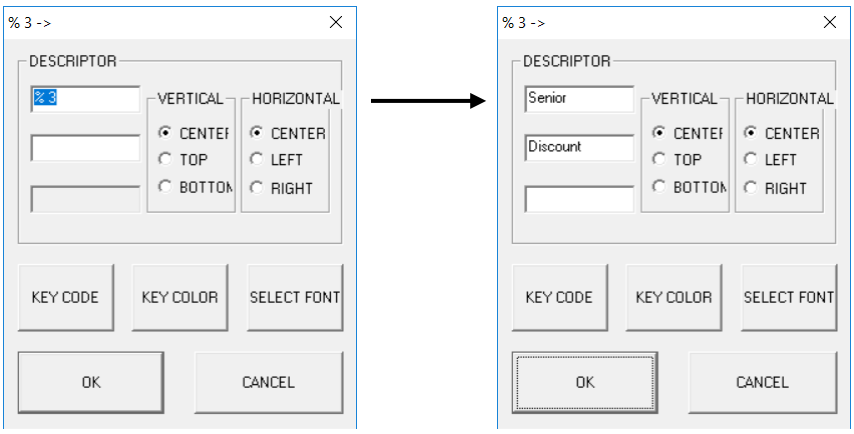
The Keyboard Layout screen allows you to edit the keys on the keyboard, change key assignment and design a key sheet to be printed for the register keyboard *(Requires 11" x 13" paper)*.

Note: To see the entire keyboard on the screen, the screen resolution must be set to 1024 x 768 pixels. Use scroll bars to view the entire keyboard.



The screen shown is Expanded Raised keyboard

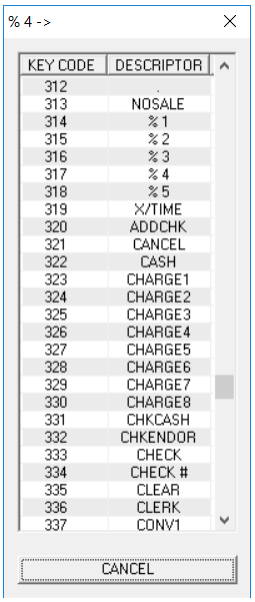
Select a key on the layout screen to edit that key.



Enter a new descriptor for the key, max is 10 characters per line.

You can also assign a different function key to the key location.

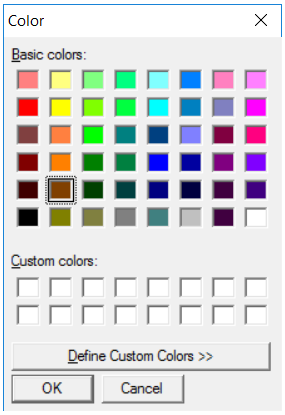
Select the Key you wish to change by clicking on the desired key, then click on the **KEY CODE** button.



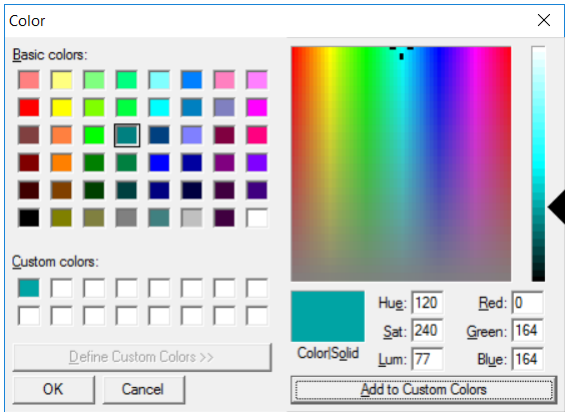
The key code list will appear as shown here.

Scroll through the list to the key you wish to assign; click on the key to make the new assignment.

Select a key color if desired by clicking on the **KEY COLOR** button.



Choose the key color you want from the color palette, then press **OK**.

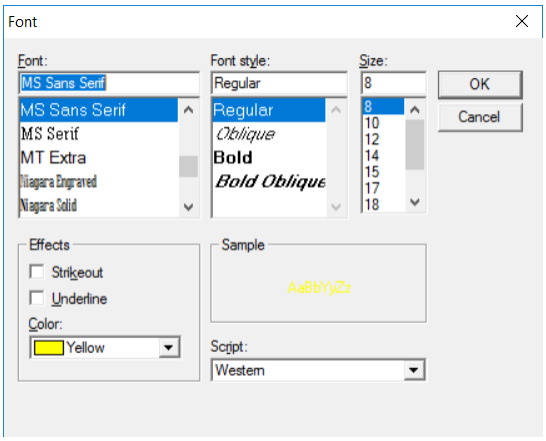


You can also create custom colors for your keyboard.

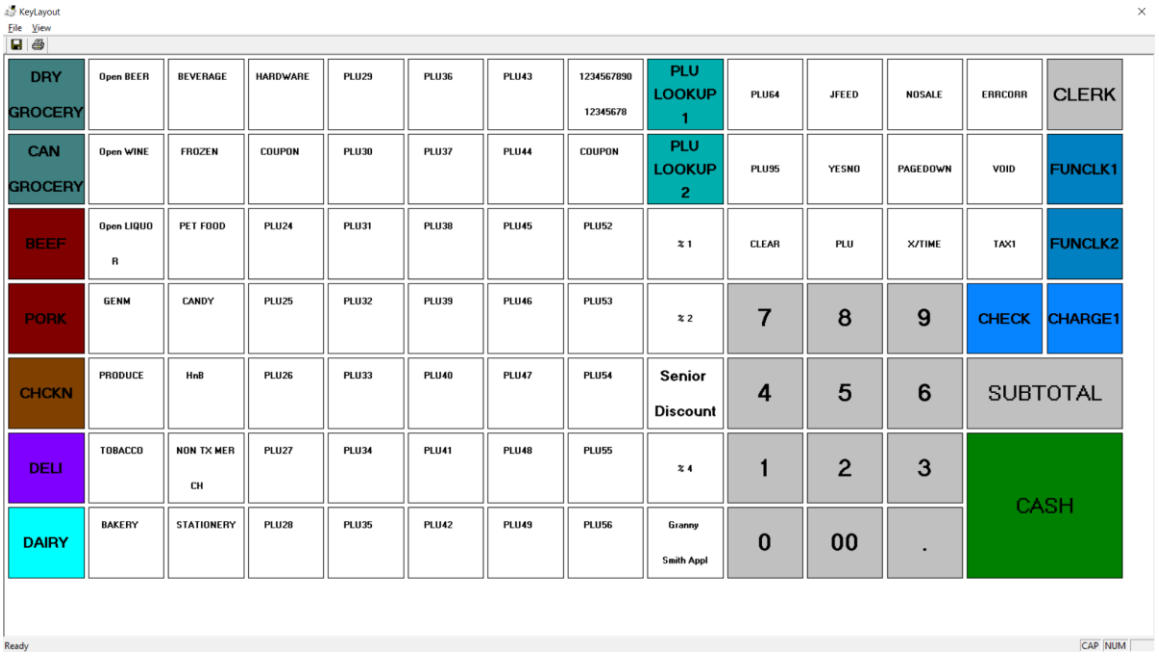
Custom colors can be saved to allow use on other keys on the keyboard layout.

Note: custom colors are saved only for the current keyboard layout editing session.

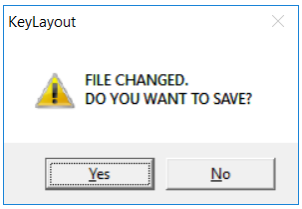
To select a different font, click on the **SELECT FONT** button.



Press **OK** when you have finished editing.



Save your changes by pressing the icon; then exit by pressing the X. if you exit without saving you will get a prompt:

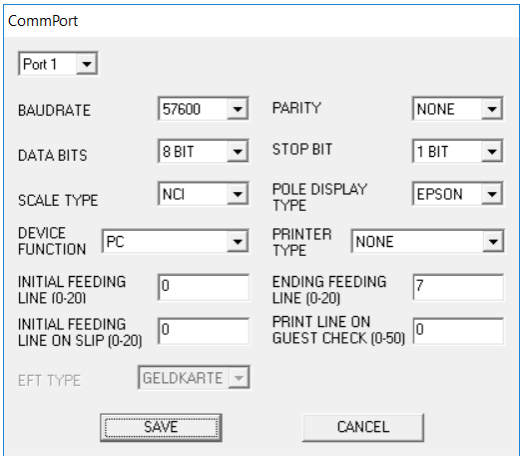


Press **Yes** to save your keyboard edits.

Comm Port

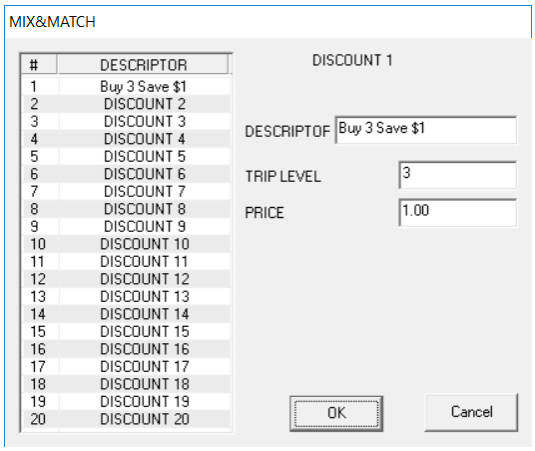
Set options for the communications when you are connecting optional hardware to the register.

Follow the instructions on the screen, or refer to the *SAM4s SPS-300 Operator's and Programming Manual* for a complete description of your program options.



Mix & Match

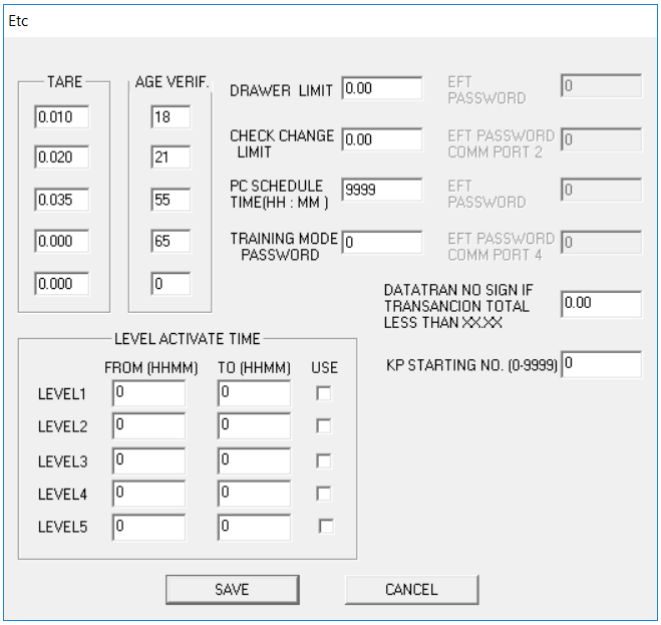
1. Choose **Mix and Match** from the *EditProgram* menu. The appropriate *Mix and Match* dialog box displays:



2. You can give the *Mix & Match* discount a specific name/descriptor. Set the trip level to indicate how many items to ring before the discount is applied. Set the discount amount in the price field. (As shown above, a $1 discount will apply after three items are registered.)

3. Click **OK** when finished editing the *Mix & Match* discounts to save changes and return to the main menu.

Etc. – Tare/Age Verification/Drawer Limit/Change Limit/PC Schedule Time/Training Mode Password



Tare Weight

You can pre-program five tare weights, representing the weight of different containers. When you place an item and a container on optional scale, you can enter the tare number to automatically subtract the pre-programmed tare weight.

Age Verification

Up to five different age categories can be created for age restricted items, for example tobacco products could be restricted at age 18 and alcohol products restricted at age 21. The age entries are made with this program. In addition, you will need to use the Group program to define the items that will be restricted.

Drawer Limit

You can set a cash-in-drawer limit. When cash in drawer exceeds the limit a warning will display on the screen.

Check Change Limit

Use this program to set the maximum amount of cash that can be returned when a check is tendered for an amount greater than the amount of the sale.

PC Schedule Time

Set the Hour and Minute (HH:MM) as per 24 hour clock when you want the ECR to automatically go into Online Mode for PC communication.

Training Mode Password

If you wish to use training mode, you must program a password that you will use to enter training mode. The password may be up to 4 digits long, however, if you choose to use a password less that for digits, you must enter preceding zeros to complete a 4 digit entry. For example, if you program the password to be "77", you must type "0077" when entering training.

Level Activate Time

Use this program to select the time for each price level to activate. Set the time in 24-hour format (military time, i.e. 1300-1pm).

Datatran No Sign

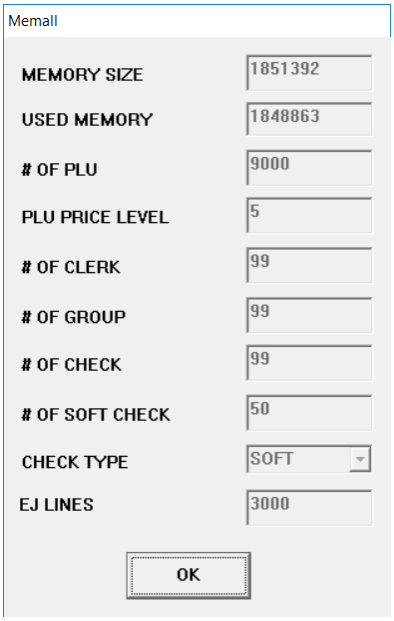
No signature required if EFT transaction is under xxxx (i.e. if 2000 is set here, no signature is required on EFT transactions under $20.00.)

KP Starting Number

Set a KP Starting Number for the KP Order number if desired. Number can be upto 4 digits.

Memory Allocation

You can view but not edit memory allocation.



Reports

Collecting Reports

Reports cannot be polled with the SPS-300 Series PC Utility. However they can be saved to an SD card. SAM4s SPS-300 series reports are saved to the SD card in either .csv or .rpt format. When saved in .csv format, you can use a PC productivity program, such as Microsoft Excel ™ to open, view and manipulate the data. If you save reports is .rpt format, using this utility you can view the report data, export it to Microsoft Excel, and/or export it to a text file.

Saving Reports to an SD Card

All reports saved in the same procedure. Reports saved are the current X1 readings.

1. At the ECR, turn the control lock to the **S** position.
2. Choose "9" from the S Mode menu (Press PAGE DOWN to view the option).
3. From the SD Card Operation menu choose "3 Report Backup".
4. From the "Report Format?" Screen press "**0**" for .rep format or "**1"** for .csv format. The printer will print an "uploaded" message for each report successfully uploaded.

Report File Conventions

Saved reports are stored in a folder named with the current date, located in a folder under the store name. For example:

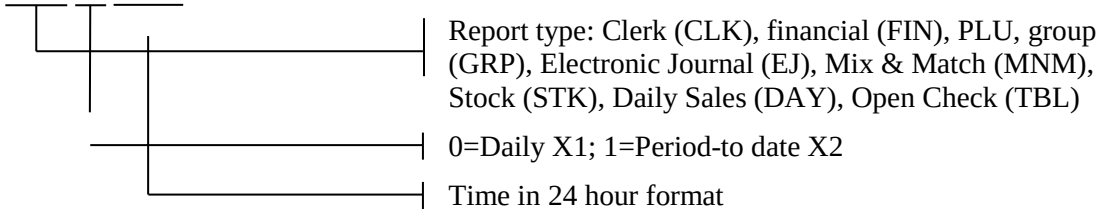
.rep format files: SD\SPS300\REPBACK\Storename\20111130

.csv format files: SD\SPS300\CSVBACK\Storename\20111130

Where 20111130 is the date the reports were saved, November 30, 2011.

Reports listed in this folder are named using the following convention:

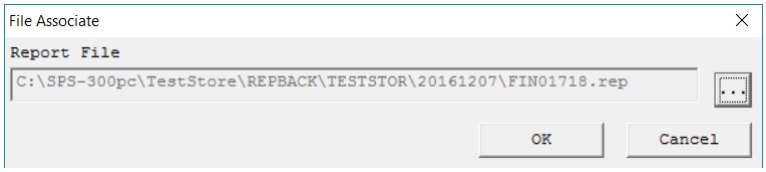
C L K 0 1 1 3 2 . r e p



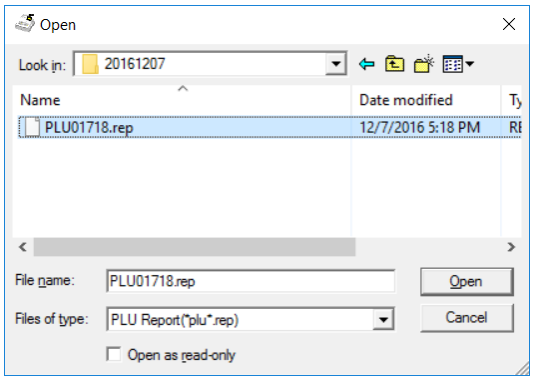
View Reports

1. Select the type of report you wish to view from the ViewReport menu.

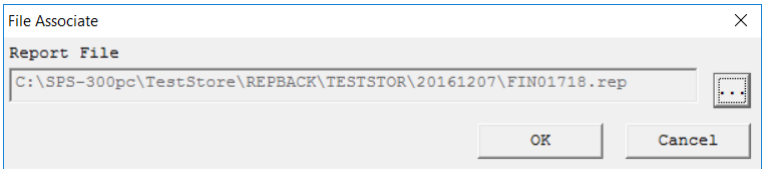
2. The File Associate dialog displays. Click the Browse (**…**)button to locate the report you wish to view.



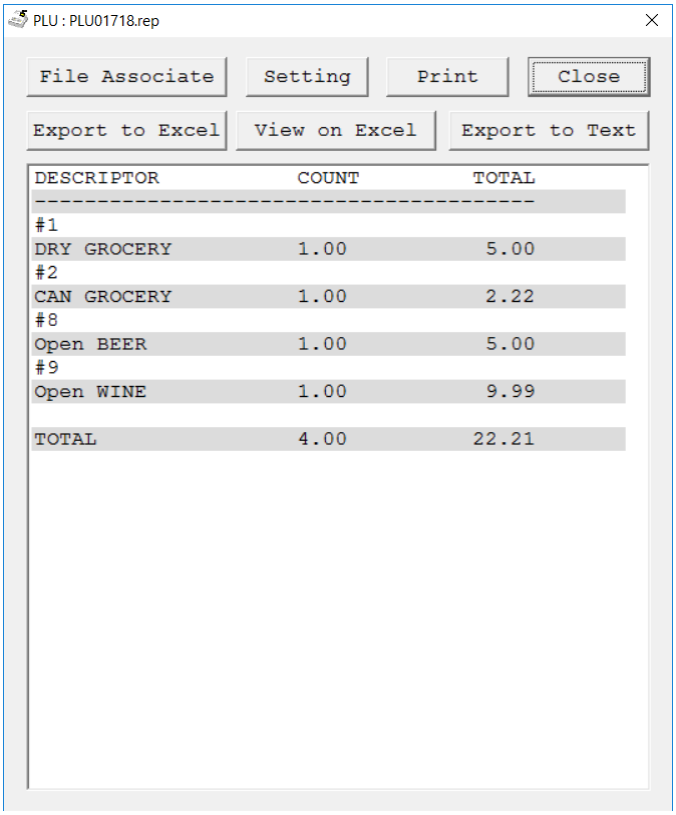
3. Select the report you wish to view. Note that report you select must match the type of report you selected from the menu. For example, if you selected PLU from the ViewReport menu, you must select a report file that begins with the text "PLU …"; if you selected FINANCIAL from the ViewReport menu, you must select a report file that begins with the text "FIN…"



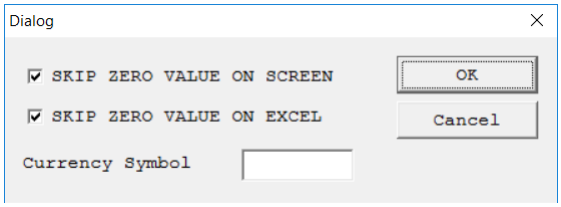
4. Click **Open**. The File associate dialog displays with your selected report path.



5. Click OK to open the report



6. Choose **Setting** to select zero skip options. Click **OK** to close the dialog and return to the financial report window.



7. From the report window, choose:

Print: to print the file at your printer
Export to Excel: to save the report in text (.xls) format
View on Excel: to open Excel and view the file
Export to Text: to save the report in Excel (.txt) format
File Associate: to select a new report
Close: to exit

Prepare & Load Bitmap Logos

Load/Save Receipt Images

You can load a preamble and postamble image for your receipt or soft guest check. Before loading, the images must be converted by the PC Utility to .img format. After conversion, they can be loaded directly by connecting a PC to the SPS-300 or by copying the images to a SD card and loading (or saving the image) using the SD utility program described here.

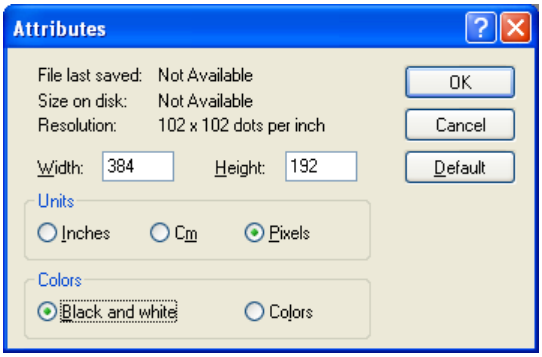
The information presented here was derived from a version of MS Paint on Windows XP, your version of Paint may appear differently but the same principles explained here will still apply.

Note that after loading the images, you must set Print Options on page 14 of the Print Options program to activate the image printing.

Preparing a Graphic Logo Bitmap for an SPS-300 Series

The image must be black/white, 384 x 192 pixels, and 10 Kbytes or less in size.

1. Open MS Paint.
2. Open the image file you wish to use.
3. Choose **Attributes** from the **Image** menu. The **Attributes** dialog box displays.



4. The image dimensions must be no larger than 384 pixels wide by 192 pixels high. If the image size in pixels is greater than the maximum, you must resize your image.
   a. Click **OK** to exit the Attributes dialog.
   b. Select your image. (Choose **Select All** from the **Edit** menu.)

c. Using the handles of the selected image, resize the image. Keep the image in the upper left corner of the screen.

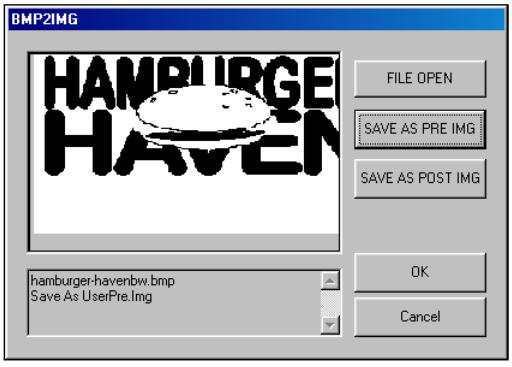
d. Choose **Attributes** from the **Image** menu. The **Attributes** dialog box displays again. Enter 384 in the **Width** field; enter 192 in the **Height** field; select **Pixels** as the unit. Click **OK** to exit the dialog box.

e. Your image will be cropped to the 384 x 192 pixel size. If you cropped part of the image you wish to keep, you can undo (Ctrl + Z) and try again. You may have to experiment a bit to resize the image inside the 384 x 192 pixel limit.

5. After the image is sized, select **Black and white** in the **Attributes** dialog.
6. Save your image as type "Monochrome Bitmap (*.bmp,*.dib)" and confirm that the size is 10k or less. If you resized your original image, you may wish to rename when you save, so that you preserve a copy of the original image.

Use the PC Utility to Convert the Image

1. Install the *SPS-300 PC Utility* on your PC.
2. At your PC, start the SPS300 PC Utility. (Select **Start**, **Programs**, **SHC PC UTILITY**, **SPS300 PC UTILITY**.) The **Store Setting** dialog box displays.
3. If you are starting the SPS300 PC Utility for the first time, you must define a store name, or if a store is already defined, you can select the store from the drop down list. After the store is defined or selected, click **Close**. The PC Utility program starts.
4. Move the bitmap (.bmp) logos you wish to use into the store directory (i.e. C:\SPS-300PC\storename.)
5. At the PC Utility, choose **Convert Logo Image** from the **Utility** menu. The Bmp dialog box displays.
6. Click **FILE OPEN**. Select the bitmap image you wish to use from the **Open** dialog and click the **Open** command button.
7. Click the **SAVE AS PRE IMG** or **SAVE AS POST IMG** button.



8. When the image is selected, click **OK**. Verify that the message "Save As UserPre.Img" or "Save As UserPost.Img" displays. If the file is too large, and cannot be loaded, the message "File Size Error" displays.

Copy the Images to an SD Card

The PC Utility will create two image files:

- USERPRE.IMG
- USERPOST.IMG

They will be located in your PC at:

C:\SPS-300PC\Store Name

Copy the mages to the following path on your SD card:

SD\\SPS300\PgmBack\Store Name

Important: In the path: C:\SPS-300PC\Store Name, the store name is the name you have defined as the store in the PC Utility. Note: You must use the same store name in the SPS-300 Series ECR at System Options page 18.

Load the Images by SD Card

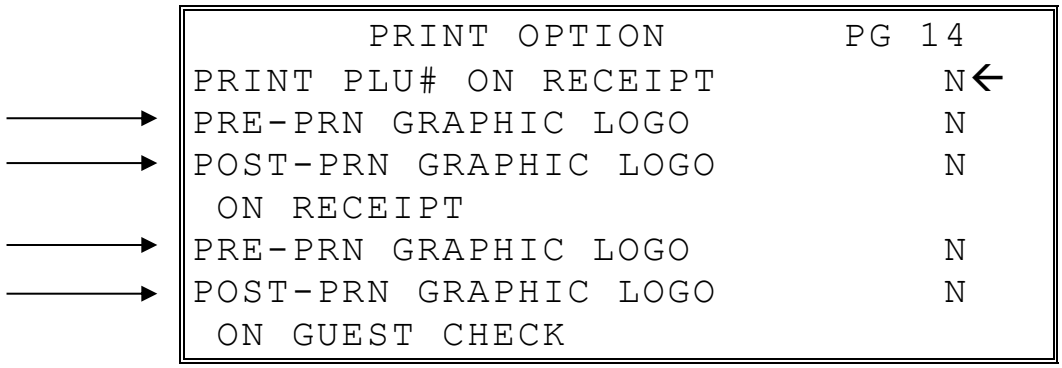
1. Insert the SD card in the register's SD slot.
2. Turn the control lock to the **S** position.
3. From the second page of the the Service Mode menu, select "**9 SD Card Operation".**
4. From the SD Card Operation menu select "**4 PRE_IMAGE LOGO LOAD**".
5. The message "PREAMBLE LOGO LOADED!" will print on the receipt printer.

Saving Images from an SPS-300 to an SD Card

1. Insert the SD card in the register's SD slot.
2. Turn the control lock to the **S** position.
3. From the second page of the the Service Mode menu, select "**9 SD Card Operation".**
4. From the SD Card Operation menu select "**5 PRE_IMAGE LOGO BACKUP**".
5. The message "PREAMBLE LOGO BACKUP!" will print on the receipt printer.

Printing the Logo Image – SPS-300 Settings

Four options on page 14 of Print Option Programming affect graphic logo printing. Choose Y or N as appropriate to print the pre or post message on receipts and/or soft guest checks.



Import/Export PLU Files

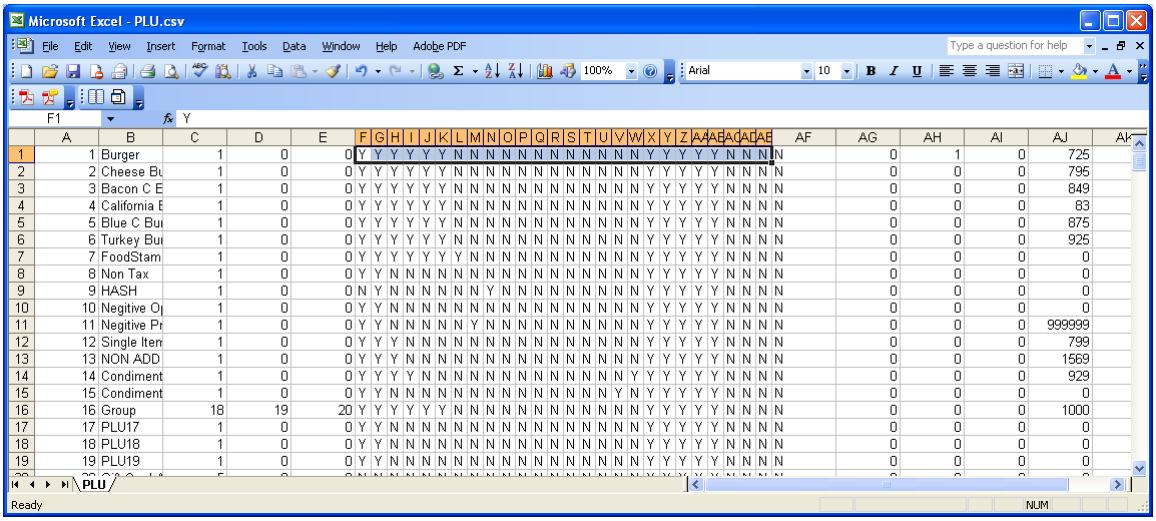
PLU PGM to Excel/PLU Excel to PGM Utilities

This feature of the *SAM4s SPS-300 PC Utility* is found under the Utility tab. Select "PLU PGM TO EXCEL" or "PLU EXCEL TO PGM".

- When the "PLU PGM TO EXCEL" utility is run, the Excel file is place into the folder: C:\SPS-300PC\Storename. The file is named PLU.csv.
- When the "PLU EXCEL TO PGM" utility is run, the PLU.csv file in the folder: C:\SPS-300PC\Storename will replace the PLU file and become the active PLU file for the store.

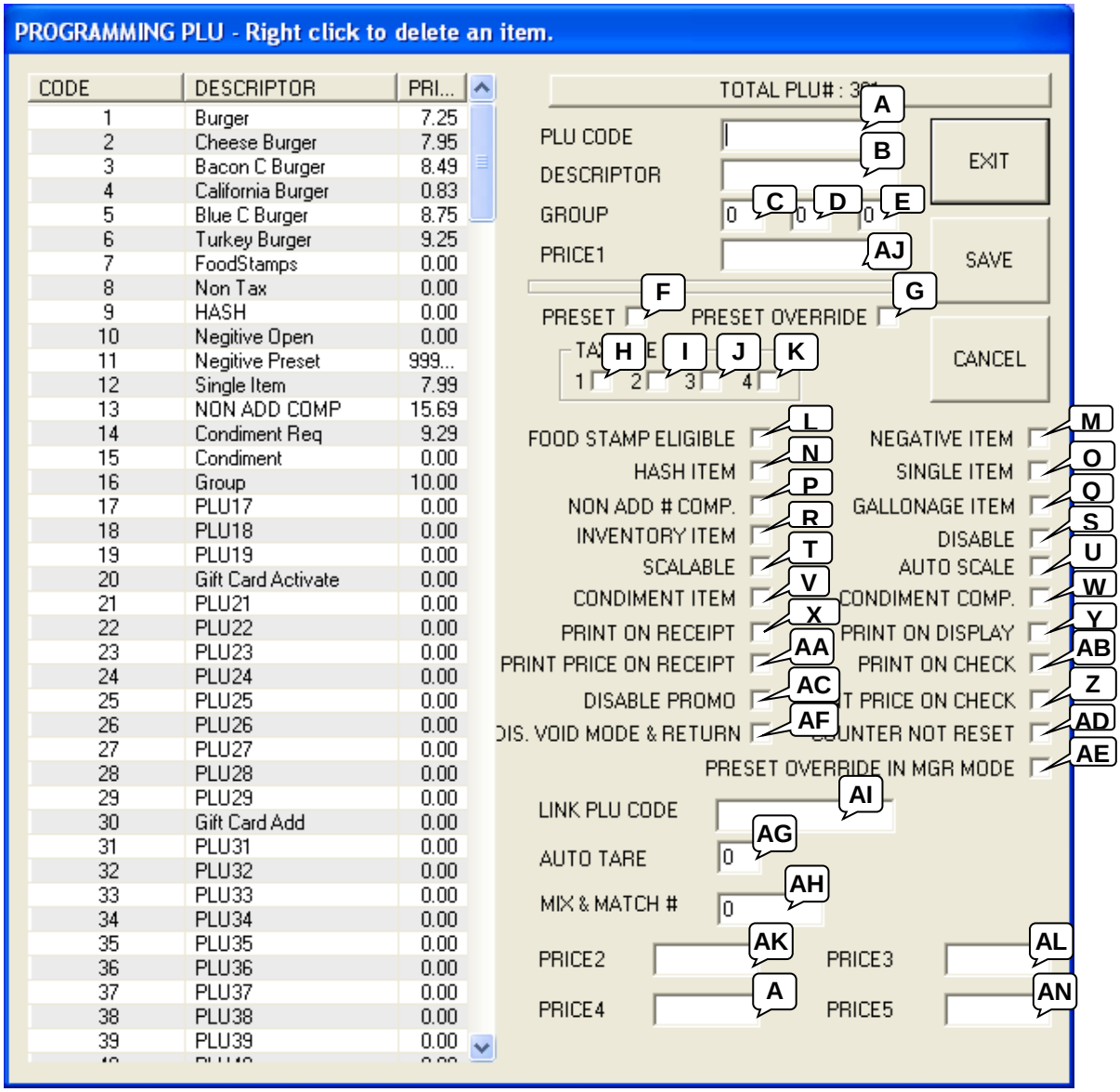
PLU Key for CSV Import/Export

Example of Exported CSV File (in Excel):



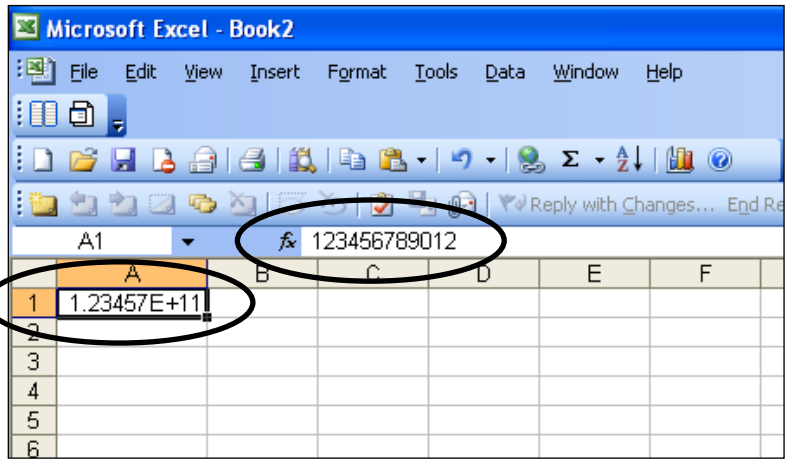
Excel PLU.csv Key	
Column on PLU.csv	**Corresponding Option**
A	PLU CODE
B	DESCRIPTOR
AJ	PRICE/HALO 1
AK	PRICE/HALO 2
AL	PRICE/HALO 3
AM	PRICE/HALO 4
AN	PRICE/HALO 5
F	PRESET
G	PRESET OVERRIDE
H	TAXable By: 1
I	TAXable By: 2
J	TAXable By: 3
K	TAXable By: 4
L	FOOD STAMP ELIGIBLE
M	NEGATIVE ITEM
N	HASH
O	SINGLE ITEM
P	NON-ADD # COMP.
Q	GALLONAGE ITEM
R	INVENTORY ITEM
S	DISABLE
T	SCALEABLE
U	AUTO SCALE
V	CONDIMENT
W	COMP. CONDIMENT
X	PRINT ON RECEIPT
Y	PRINT ON DISPLAY
Z	PRINT ON CHECK
AA	PRINT PRICE ON RECEIPT
AB	PRINT PRICE ON CHECK
AC	DISABLE PROMO
AD	COUNTER NOT RESET
AE	PRESET OVERRIDE IN MANAGER CONTROL
AF	DISABLE VOID AND RETURN
AG	AUTO TARE
C	GROUP # 1 (1-20)
D	GROUP # 2 (1-20)
E	GROUP # 3 (1-20)
AH	MIX & MATCH #
AI	PLU LINK CODE

PLU Key Viewed on Utility PLU Program Window



Import Note – Notation of Large PLU Numbers

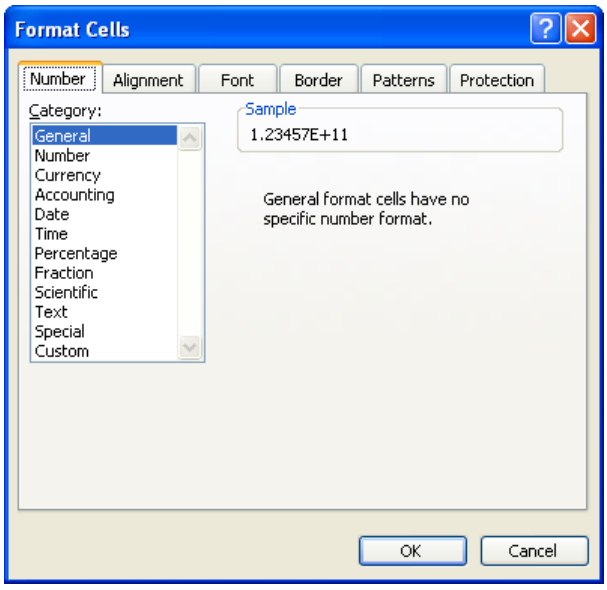
Using default Microsoft Excel™ settings, numbers exceeding 12 digits will display in scientific notation as shown in the sample sheet below:



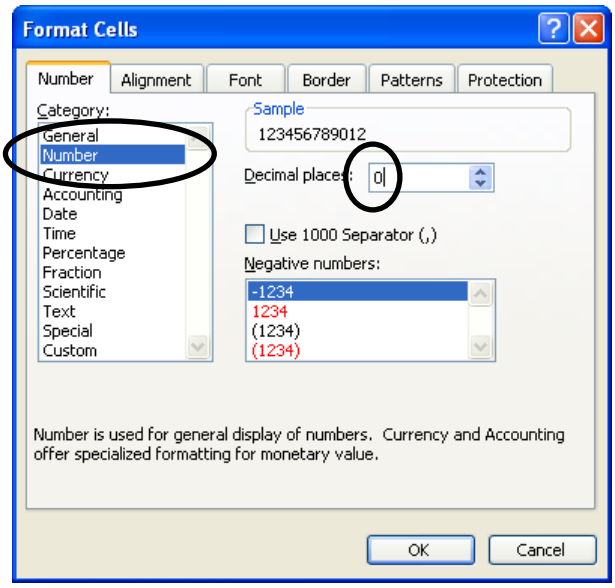
Caution: **If you are editing a PLU.csv file in Excel, *and* you are using large PLU numbers (such as 14-digit UPC numbers), you must take care to change the formatting of the number in Excel, so that the correct PLU number is sent to the PLU file.**

To Change PLU Number Display in Excel

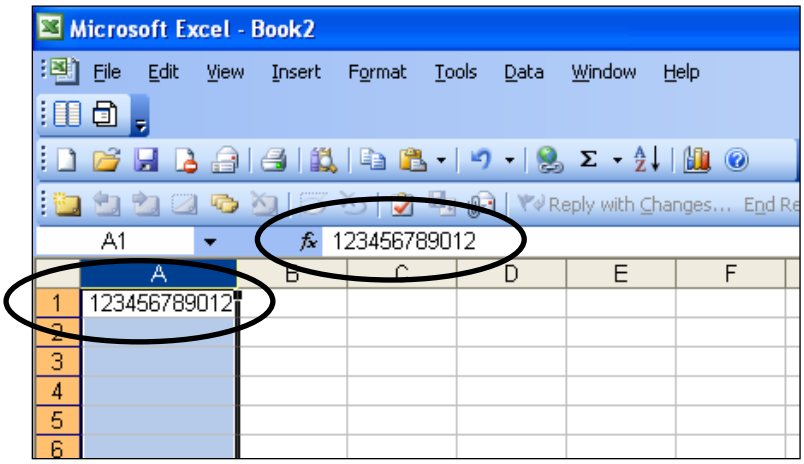
1. On the Excel spreadsheet, select column "A" (the PLU number column).
2. Choose **Cells** from the **Format** menu. The **Format Cells** dialog box displays with the **Number** tab selected. Note the the Category selected is "General".



3. Select the ‘Number” category and set the Decimal places field to “0”.



4. Click **OK** to save the settings. Note the large number now displays completely, without scientific notation.

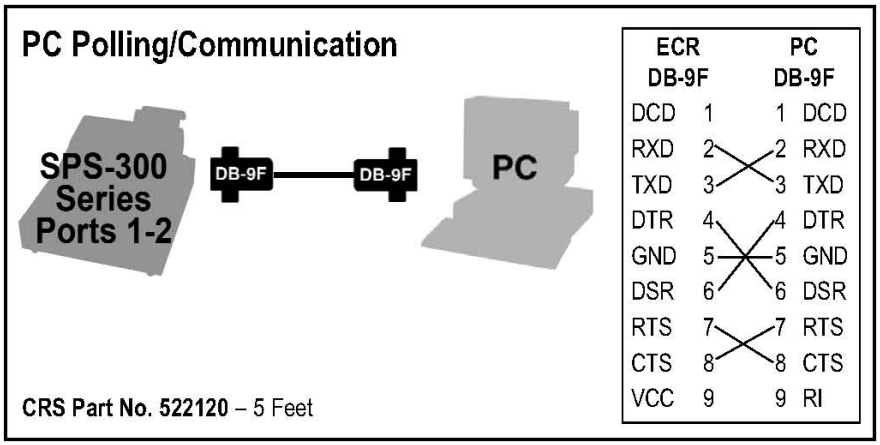


Appendix

Cabling Diagrams

You can configure cables yourself with the diagram provided here, or you can order the appropriate cables from CRS Parts at 1-800-333-4949.

Direct Connection



Manual Revision Record

Edition	Date published	Revision contents
Preliminary		
V1.0	4/27/2012	Keyboard Layout Note added
V1.1	4/18/2013	Added new keyboard selections available at utility version 01.019
V1.2	12/16/2015	PLU LookUp added to Edit Program menu
V1.3	12/8/2016	Updated Screens, added programming information