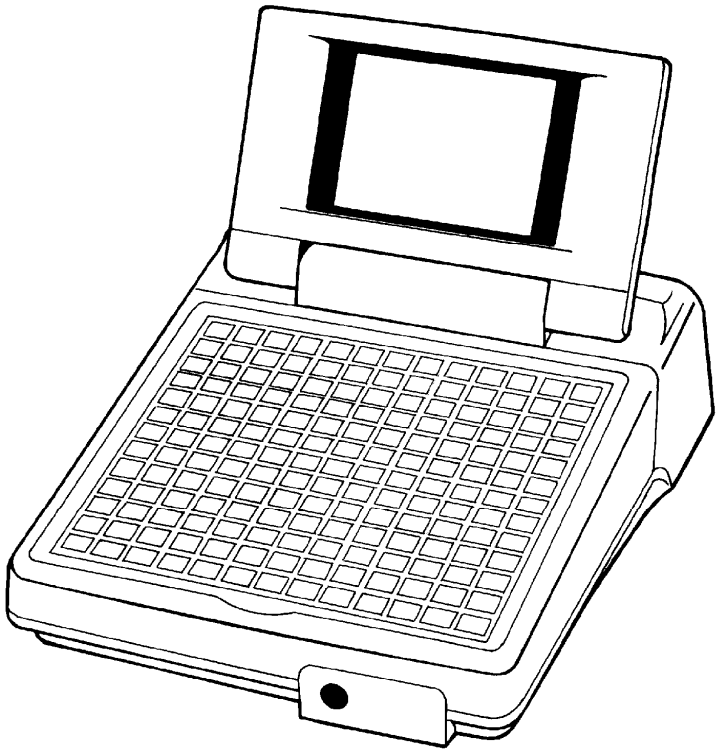
Samsung SPS-1000

SAM1000 For Windows User's Manual



Version 2.3

All specifications are subject to change without notice.

©2013, CRS, Inc.

CRS, Inc.
Limited Warranty and Disclaimers of Warranty

This manual has been developed by CRS, Inc. It is intended for the use of its customers and service personnel and should be read in its entirety before attempting to install, use or program the product(s).

Nothing contained in this manual shall be deemed to be, and this manual does not constitute, a warranty of, or representation with respect to, the product or any of the products to which this manual applies. This manual is subject to change without notice and CRS, Inc. has no obligation to provide any updates or corrections to this manual. Further, CRS, Inc. also reserves the right, without prior notice, to make changes in equipment design or components as it deems appropriate. No representation is made that this manual is complete or accurate in all respects and CRS, Inc. shall not be liable for any errors or omissions contained in this manual. In no event shall CRS, Inc. be liable for any incidental or consequential damages relating to or arising out of the use of this manual. This document contains proprietary information that is protected by copyright. All rights are reserved. No part of this document may be photocopied or reproduced without prior written consent of CRS, Inc.

NOTICE

IF ANY WARRANTY IS EXTENDED TO YOU WITH REGARD TO THE PRODUCT(S) TO WHICH THIS MANUAL APPLIES, IT IS A WARRANTY FROM THE ENTITY OR INDIVIDUAL FROM WHOM YOU DIRECTLY PURCHASED THE PRODUCT(S).

SUBJECT TO THE FOREGOING, UNLESS YOU ARE A DIRECT END USER CUSTOMER OF CRS, INC., CRS, INC. DOES NOT EXTEND TO YOU ANY EXPRESS WARRANTY OR ANY IMPLIED WARRANTY AND EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR USE, OR FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY RIGHTS IN CONNECTION WITH THE PRODUCT(S) OR ANY SOFTWARE, DRIVERS, OR PROGRAMMING PRODUCT, WHETHER EMBEDDED IN PRODUCT(S) OR PROVIDED AS A SEPARATE PROGRAM, OR USED IN CONJUNCTION WITH THIS/THESE PRODUCT(S). CRS, INC. SPECIFICALLY DOES NOT WARRANT THAT THE OPERATION OF ANY DRIVERS, SOFTWARE, OR PROGRAMMING PRODUCTS LICENSED HEREUNDER, WHETHER EMBEDDED IN PRODUCTS OR PROVIDED AS SEPARATE PROGRAMS, SHALL BE UNINTERRUPTED OR ERROR FREE OR THAT FUNCTIONS CONTAINED IN SUCH DRIVERS, SOFTWARE OR PROGRAMMING PRODUCTS SHALL OPERATE IN COMBINATION(S) WHICH MAY BE SELECTED FOR USE BY YOU OR OTHERWISE MEET YOUR REQUIREMENTS.

CRS, Inc. is not responsible for any damages or loss, either direct, indirect, special, incidental or consequential, which you may experience as a result of your purchase or use of the product(s). Your sole remedy in the event that you encounter any difficulties with the product(s) is against the entity or individual from whom you purchased the product(s).

Revision 2.0 - April 1, 2005

Contents

Introduction 1

Overview 1
- Features 1
- Requirements 1

Installing 2
- Cash Register Settings 3

Starting 4

Navigating 5
- Mouse and Keyboard 5
- Viewing Menus and Selecting Menu Items 5
- Working with Edit Screens 7

Interface Specifications 9

Menu Functions 11

Stores 11
- Creating a New Store 12
- Selecting the Default Store 13
- Editing Store Information 14
- Deleting a Store 15

Edit ECR Data 16
- PLU File 18
- PLU Status Group 27
- Group 28
- Function Keys 29
- Options 30
- Tax Tables 32
- Messages 33
- Time Periods 41
- Employee 42
- Authority Levels 46
- Printer Tables and KV Routing 47
- Ingredient Inventory 52
- Time Activated Functions 54
- Product Mix Groups 55
- Custom Report 57
- String Report 58
- Non-PLU Code 59
- Macros 60
- WLU 61
- Age Verification 62
- Mix and Match 63
- S-Mode System Options 64
- Printer Drivers 65

Serial Port Parameters 66
Keyboard Layout 67
Tare Weights 69
Communications 70
Polling 70
Send Programs to ECR (Download) 72
Receive Programs from ECR (Upload) 73
Polling Setup File 74
Print 75
Daily Poll File 76
Log Files 77
PLU File 80
PLU Range 81
Consolidated Store Report 82
Not Found PLU File 83
Remove 84
Old Poll Files 84
Log Files (Upload, Download, Poll) 84
Utilities 85
Display Memory Allocation 85
Re-Index PLU Misc Files 86
Copy a Store 86
Copy PLU and Status Group Files 87
Pause Between Stores in Polling 88
Calculate Number of PLUs 88
Set Auto-Polling 89
Physical Inventory Comparison Partial Inventory Comparison 90
Inventory Comparison Procedure 90
Inventory Stock Totals 92
Program EPROM 93
Disable Upload of ECR Data 94
After Polling 95
Convert Polled File to Comma Delimited 96
Copy PLU Price Levels 97
Set the Number of Attempts in Polling 97
Backup Poll Data Files 97
Quit 99

Appendices **100**

Structure of Stores 100
File Definitions 101
Structure of Polling Files 104
Sam1000 File Structures for PLU Information 107
Logo Creation Instructions 109
Bit Map File Specification 109
Create Bitmap Image 110
Converting the Bit Map Image for the SPS-1000 111
Prepare Downloading the Bit Map Image on the SPS-1000 111
Downloading the Bit Map Image to the SPS-1000 with SAM1000 111
Downloading the Bit Map Image to the SPS-1000 with the Samsung Utility 111
Downloading the Bit Map Image to the Printer 112
Printing the Bit Map Image 112
Troubleshooting Common Problems 113
Hardware 113

Software 113
Samsung SPS 1000 113
SAM 1000 113
Starting Operations 114
Cabling Diagrams 115
Cable Pinouts 116

Manual Revision Record **118**

Introduction

Overview

Features

SAM1000 For Windows controls the connection between a *Samsung SPS 1000* electronic cash register and an IBM compatible PC running in a Windows XP (or later) environment. Using *SAM1000 For Windows* at your PC, you can:

- Connect directly or via telephone modems.
- Upload program files from the register to the PC.
- Edit cash register programs.
- Download program files to the register from the PC.
- Poll reports from the register, save, display or print them at the PC.
- Poll all stores, or individual stores.
- Poll unattended at a predetermined time.
- Convert polled reports to ASCII files, ready to be used by other PC applications.

Requirements

To use this utility, you must have:

- Pentium 100 or faster CPU.
- 32 MB RAM.
- 150 MB minimum hard disk space available.
- Dedicated serial port (RS-232C).
- CD ROM drive.
- 3.5” floppy disk drive
- VGA or SVGA display.
- US Robotics Sportster™ Modems are recommended for remote connections (for both PC and ECR sites.)

Installing

Notes:

SAM Polling software requires a LPT or USB software key to be installed on the PC running the software to access all of the polling and programming features. Software can be installed on a PC without the key, but it can be used only for program saving/loading.

The connection from the ECR to your PC requires a serial port on the PC. See “Cabling Diagrams” on page 115 for more information on cables and connections.

1. Load the *SAM1000* program CD into your CD drive.
2. From the Windows Desktop, double click the *My Computer* icon.
3. Select your CD ROM drive (usually drive "D".)
4. Choose **Setup**. The Welcome dialog displays.
5. Click **Next**. The Ready to Install dialog displays.
6. Click **Next**. The Install Directory dialog displays.
7. Click **Next**. The Select Shortcut Folder dialog displays.
8. Click **Next**. When all files are copied, the Finished dialog displays.
9. Click **Finish**.
10. Next, the HSAP SRM loads the driver for the software key.
11. When the driver installation is complete, the Aladdin HASP SRM dialog displays.
12. Click **OK.**
13. Remove the CD ROM. Your installation is complete.

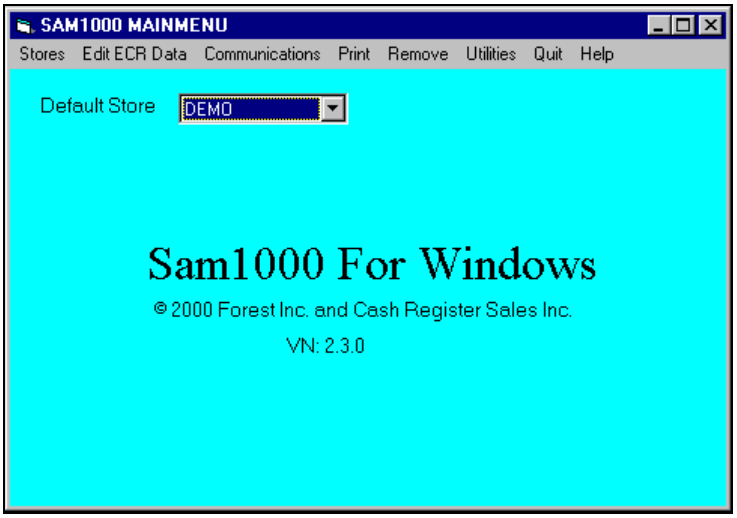
Cash Register Settings

To communicate with a *Samsung SPS 1000* you must configure one of the available ports for polling and you must set the appropriate parameters for that port.

- See "Serial Port Device Selections" in the Samsung SPS 1000 Program Manual to select the *Polling* option for the port to which you are connected.
- See "Define Serial Port Parameters" in the Samsung SPS 1000 Program Manual to select the *BAUD* rate and other options for the port to which you are connected.

Starting

1. From Windows, click the **Start** button, click **Programs**, click **SAM1000**, then click **SAM1000.exe**.
2. The *SAM1000 For Windows* main screen displays.



YOU MUST DO THIS FIRST!

1. Before you can attempt communications or editing, you must create at least one store. Refer to "Creating a New Store" on page 12.
2. After creating a store, you must Receive (Upload) information from the ECR. Refer to "Receive Programs from ECR (Upload)" on page 73.

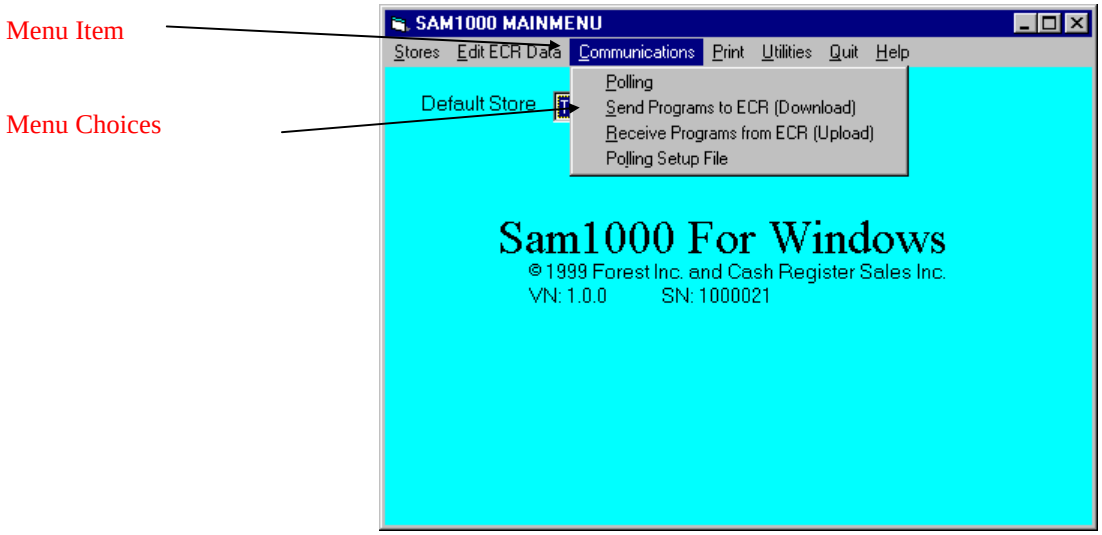
Navigating

Mouse and Keyboard

You can choose a menu, menu item, or a command by clicking on it with your mouse.

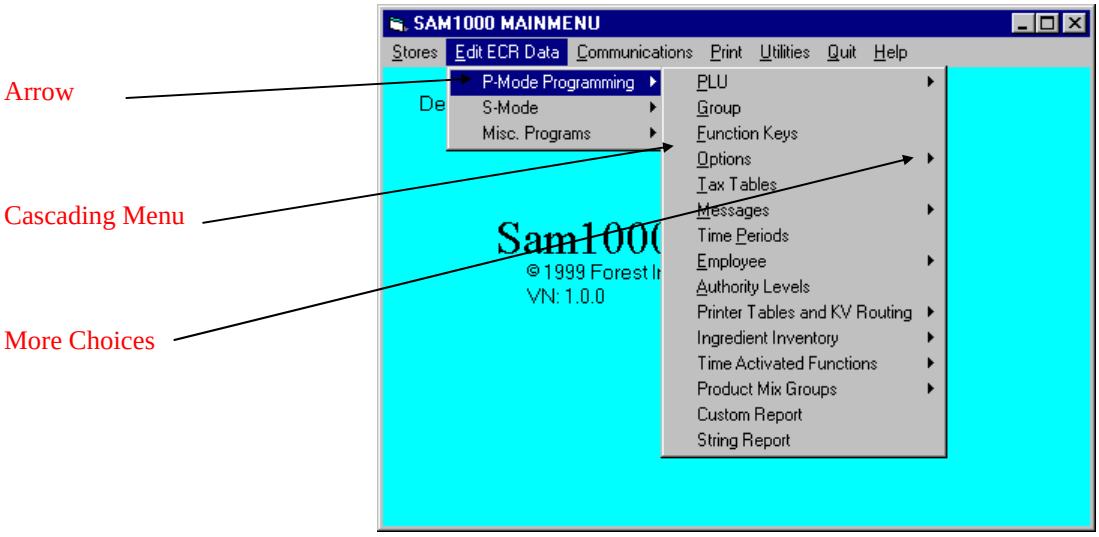
Viewing Menus and Selecting Menu Items

1. Point at a menu item with your mouse.
2. Point at your choice on the menu and click the left mouse button.



Cascading Menus

1. An arrow indicates that additional choices cascade from the first menu.
2. Move the mouse pointer in the direction of the arrow to display additional choices.
3. In some cases, additional choices are available from a cascading menu. Move the mouse pointer in the direction of the arrow to display additional choices.



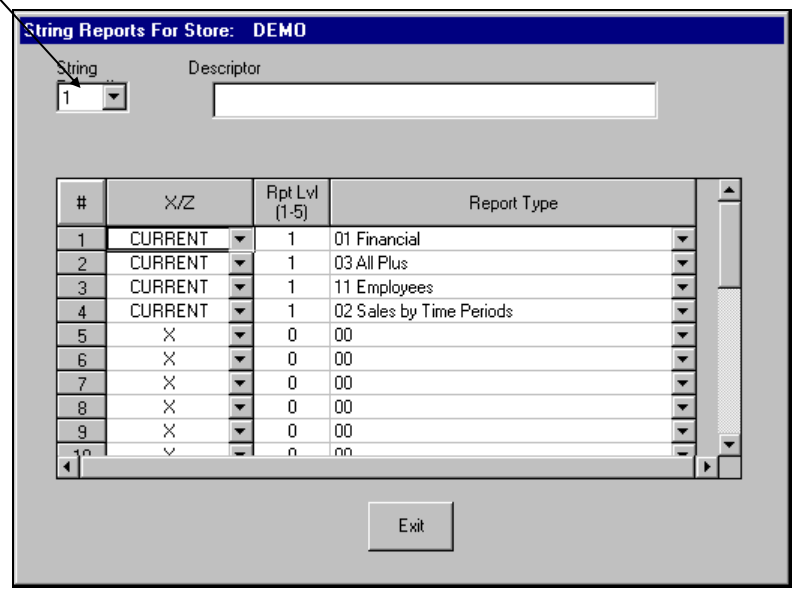
Working with Edit Screens

Selecting Items to Edit

Drop Down List Boxes

In some situations, you select the object you are editing by using a drop down list box.

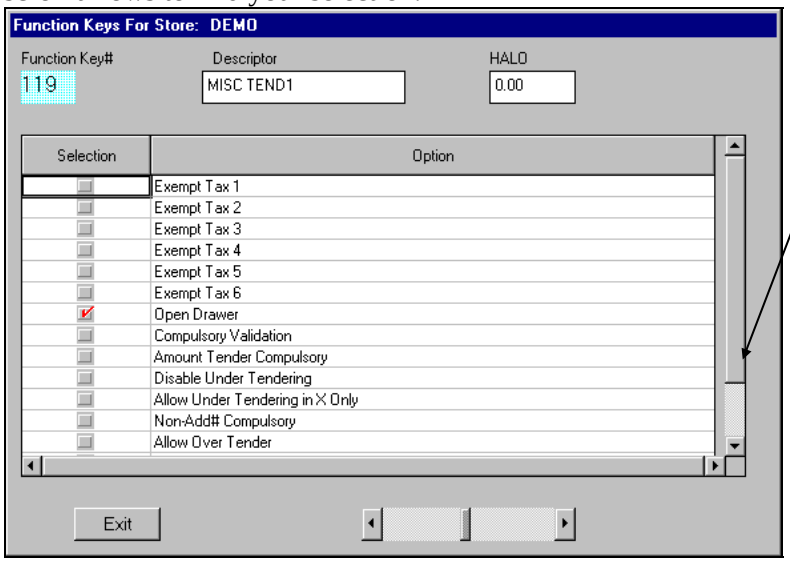
Type your selection when the box is selected, or click on the arrow to open the box and view your options. Click on an item to select it. (If all the choices are not in view, scroll bars are provided.)



Scroll Boxes

In some situations, you select the object you are editing by using a scroll list box.

Move the scroll box to select the item you wish to work with. Drag the scroll box or click the scroll arrows to find your selection.



Making Changes on Edit Screens

Numeric or Alpha Numeric Fields

The cursor changes to a cross shape when you drag it over a numeric or alpha numeric field.

Double click on the field, then enter new data. If you are entering price data, you must use the decimal key. Fields in yellow cannot be edited.

Check Boxes

The cursor changes to an arrow when it passes over a check box field. Click on a check box to make a selection. Click the check box again to deselect the item

Drop Down List Boxes

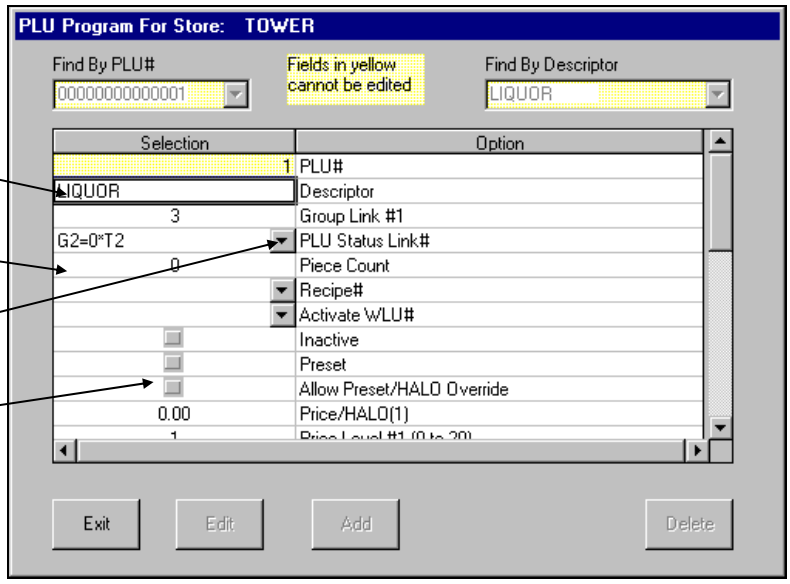
The cursor changes to an arrow when it passes over a drop down list box arrow. Click on the arrow in the box to open the drop-down list box and display a list of choices. Click on an item to select it. (If all the choices are not in view, scroll bars are provided.)

Alpha Numeric field

Numeric field

Drop Down List Box

Check box



Interface Specifications

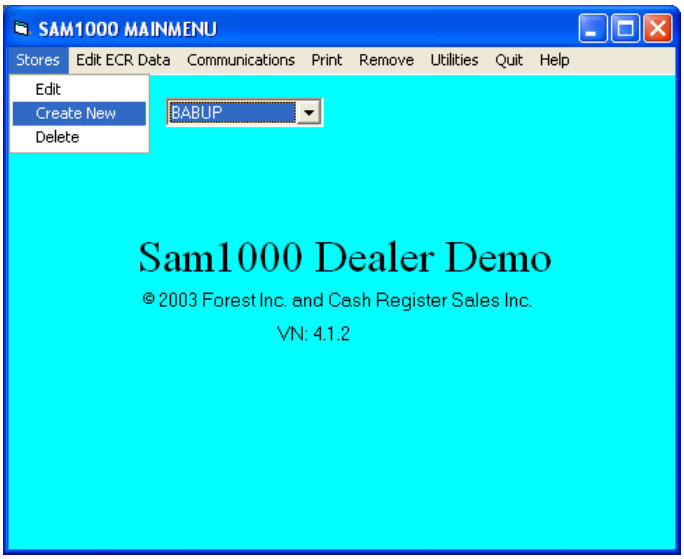
Communications Specifications

Asynchronous Operation	
Communication Mode	Half Duplex
Baud Rate	Select: 9600, 19,200, 38,400, or 57,600
Signal Level	RS-232C
Character Bits	8
Parity Bits	None
Stop Bits	1
Error Detection	Data sum check

Menu Functions

Stores

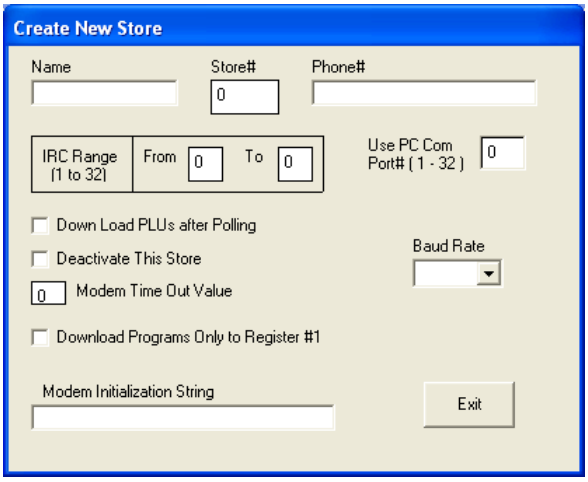
- Choose **Stores** from the Main menu to edit, create a new or delete as store.



A store must be created before any communications or editing can take place.

Creating a New Store

1. Choose **Create New** from the *Store* menu to create a store. You can create an unlimited number of stores. The *Create New Store* dialog displays.



2. Complete the *Create New Store* dialog according to the table below:

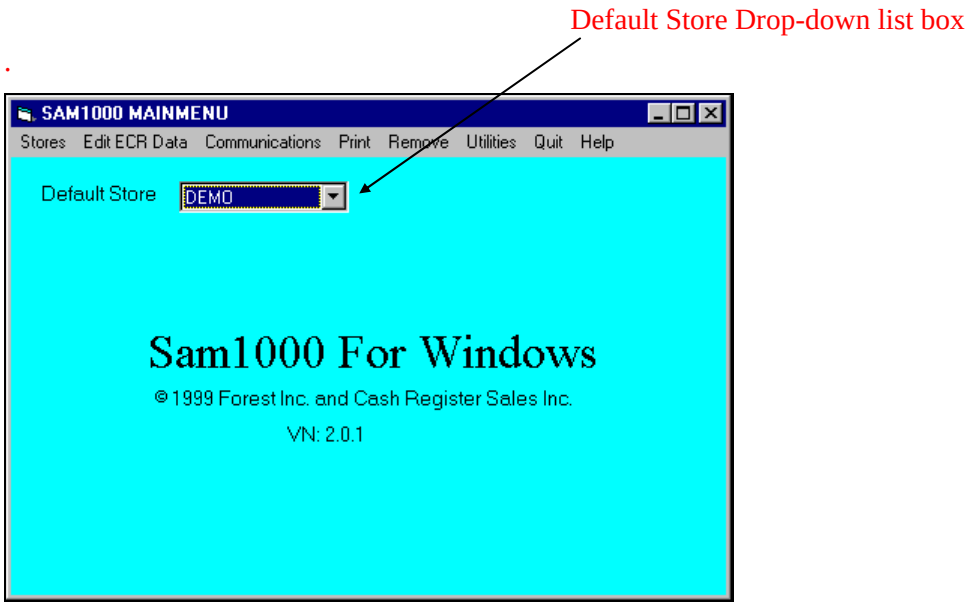
Field Name	Required /Optional	Description/Instructions
Name	**R**	Enter an eight character store name.
Store#	**O**	Enter the four digit number that is the same number that you used when you programmed the store# at the register. If store numbers do not match, you will not be able to communicate with the register.
Phone#	**O**	Enter the Phone number preceded by the letter **T** or **P** if you intend to communicate with the register by modem. The **T** is for TONE and the **P** is for PULSE. If you communicate direct, leave this field blank.
From/To IRC Range	**R**	Enter the IRC range of registers from 1-32. If the register is standalone, use *from* **1** *to* **1**.
Use PC Com Port# (1-32)	**R**	Enter the PC Com port (1-32) that you are using for communications.
Download PLUs	**O**	Select the *Download PLUs* check box if you wish to download changed PLUs in a polling session. When the session is finished polling, the program will download any changed PLUs.
Deactivate This Store	**O**	Select the *Deactivate This Store* check box if you wish the store to be inactive.
Modem Time Out Value	**R**	Unless otherwise indicated, the default value of 99 will be entered automatically when the store is created
Download Programs Only to Register #1	**O**	If selected, download only to register #1. IRC can be used at the store level to update all register programs.

Field Name	Required /Optional	Description/Instructions
Modem Initial String	**O**	This field is to allow you to enter any initialization required for your modem for polling or communications. Do not add the command prefix "AT" in this string. If you are using the U.S. Robotics Sportster modem, it would be good to initialize with the string S7=60. This value makes the modem wait for up to 60 seconds to detect a carrier. If no carrier is detected within 60 seconds after you dial, the modem will answer back with No Carrier Detect. Do not put into this string any E, Q or V values. The software automatically handles these values.
Baud Rate	**R**	Select the communications speed for this store.

3. Click **Exit** to save store information.

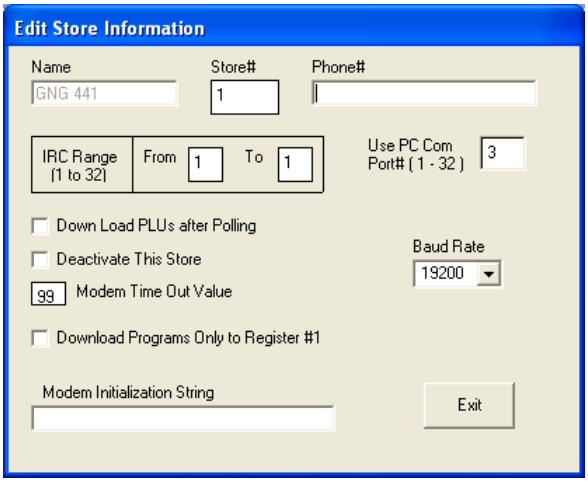
Selecting the Default Store

- Click the *Default Store* drop-down list box to select the working store. When you have created at least one store, the list box will display all stores created. The working store will display in the **Default Store** field. All editing and programming will pertain to the selected working store.



Editing Store Information

1. Choose **Edit** from the *Store*s menu to edit a store.



2. Complete the *Edit Store Information* dialog according to the table below:

Field Name	Required /Optional	Description/Instructions
Name	**R**	Enter an eight character store name.
Store#	**O**	Enter the four digit number that is the same number that you used when you programmed the store# at the register. If store numbers do not match, you will not be able to communicate with the register.
Phone#	**O**	Enter the Phone number preceded by the letter **T** or **P** if you intend to communicate with the register by modem. The **T** is for TONE and the **P** is for PULSE. If you communicate direct, leave this field blank.
From/To IRC Range	**R**	Enter the IRC range of registers from 1-32. If the register is standalone, use *from* **1** *to* **1**.
Use PC Com Port# (1-32)	**R**	Enter the PC Com port (1-32) that you are using for communications.
Download PLUs	**O**	Select the *Download PLUs* check box if you wish to download changed PLUs in a polling session. When the session is finished polling, the program will download any changed PLUs.
Deactivate This Store	**O**	Select the *Deactivate This Store* check box if you wish the store to be inactive.
Modem Time Out Value	**R**	Unless otherwise indicated, the default value of 99 will be entered automatically when the store is created

Field Name	Required /Optional	Description/Instructions
Download Programs Only to Register #1	**O**	If selected, download only to register #1. IRC can be used at the store level to update all register programs.
Modem Initial String	**O**	This field is to allow you to enter any initialization required for your modem for polling or communications. Do not add the command prefix "AT" in this string. If you are using the U.S. Robotics Sportster modem, it would be good to initialize with the string S7=60. This value makes the modem wait for up to 60 seconds to detect a carrier. If no carrier is detected within 60 seconds after you dial, the modem will answer back with No Carrier Detect. Do not put into this string any E, Q or V values. The software automatically handles these values.

3. Click **Exit** to save store information.

Deleting a Store

1. Choose **Delete** from the *Stores* menu to delete the working store from you hard drive. A warning dialog displays.



2. Click **Yes** to delete the store.

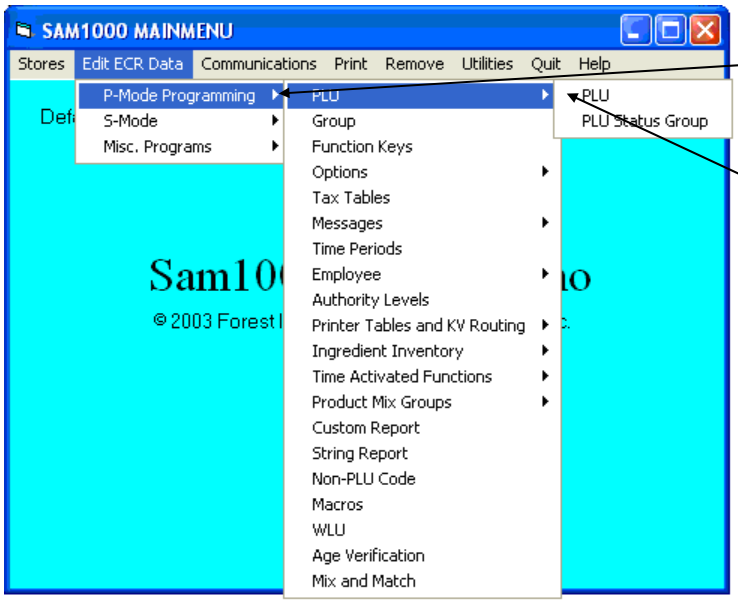
Caution: This function will erase everything that pertains to this store. Use extreme caution with this function. Information that is deleted cannot be recovered.

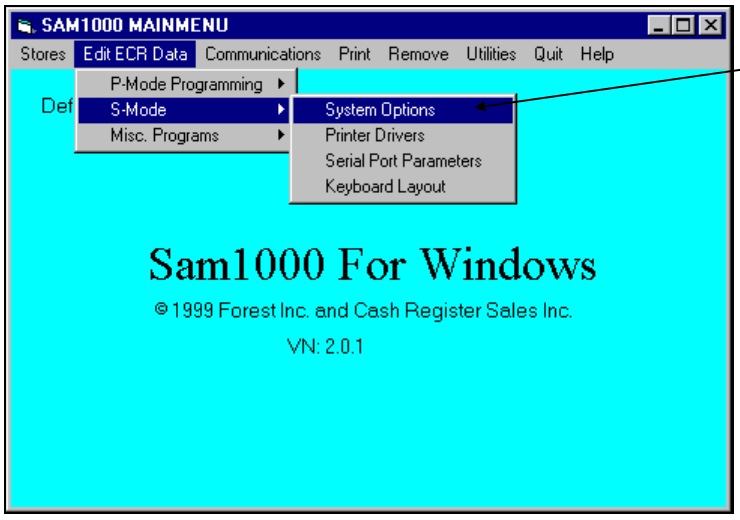
Edit ECR Data

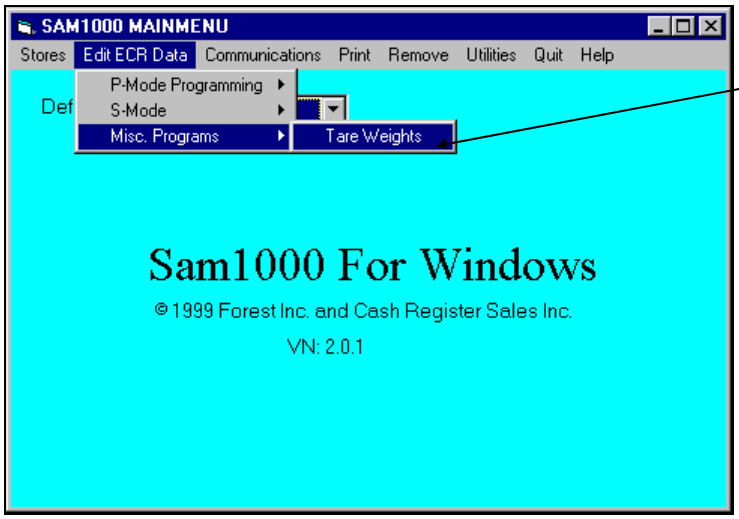
Choose **P-Mode Programming**, **S-Mode**, or **Misc. Programs** from the *Edit ECR Data* menu, then select a specific item to modify that part of an existing Samsung *SPS 1000* program. The options in this program allow you to edit the same program options that you set on a standalone *SPS 1000* through the register's keyboard. Detailed questions about the meaning of the register options are best answered by referring to the *Samsung SPS1000 Program Manual*.

Note: If you did not Upload programs from the ECR, you will get a message "The file does not exist" if you attempt to select any of these options.

Note: If you wish to create a program for a new store, you can use the "Copy a Store" on page 86 and then edit the copied program to suit your needs.



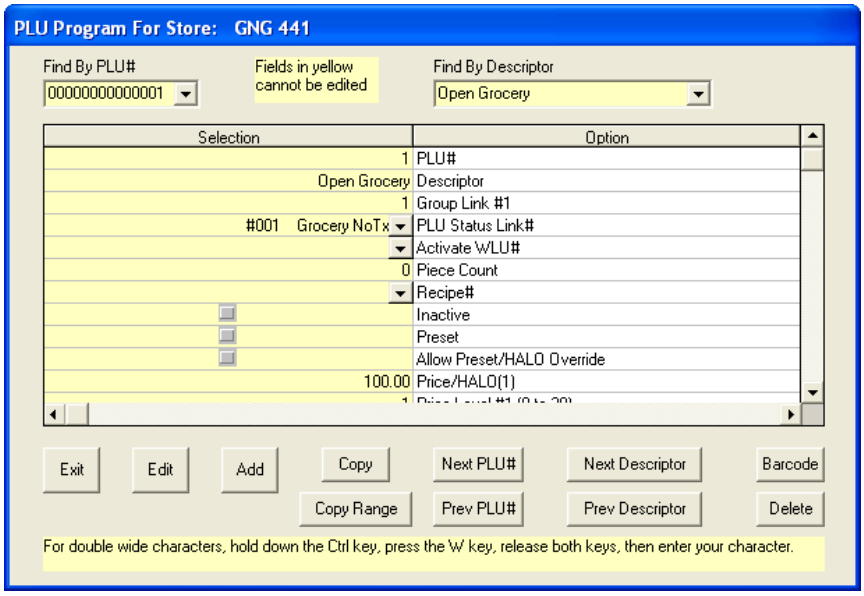



SAM1000 MAINMENU
Stores
Edit ECR Data
Communications
Print
Remove
Utilities
Quit
Help
P-Mode Programming
S-Mode
Misc. Programs
Tare Weights
Def
Sam1000 For Windows
© 1999 Forest Inc. and Cash Register Sales Inc.
VN: 2.0.1
Misc. Program items

PLU File

The PLU file is maintained here. Follow the instructions on the screen, or refer to the *Samsung SPS 1000 Program Manual* for a complete description of your program options.

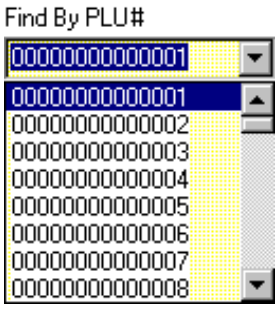
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **PLU** to open the PLU menu. Choose **PLU**. The PLU Program screen displays with the first PLU in the store file displayed.



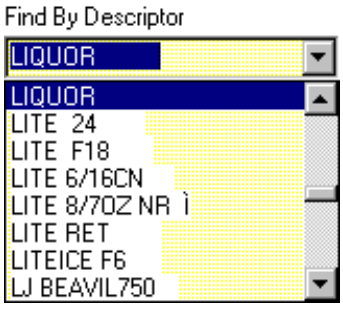
Editing a PLU

1. Select the PLU you wish to edit:

   - Type a PLU number in the box and press **ENTER**, or open the Find by PLU# drop down list box and click on the PLU you wish to edit. If necessary, use the scroll box to view the list of PLUs in the file.

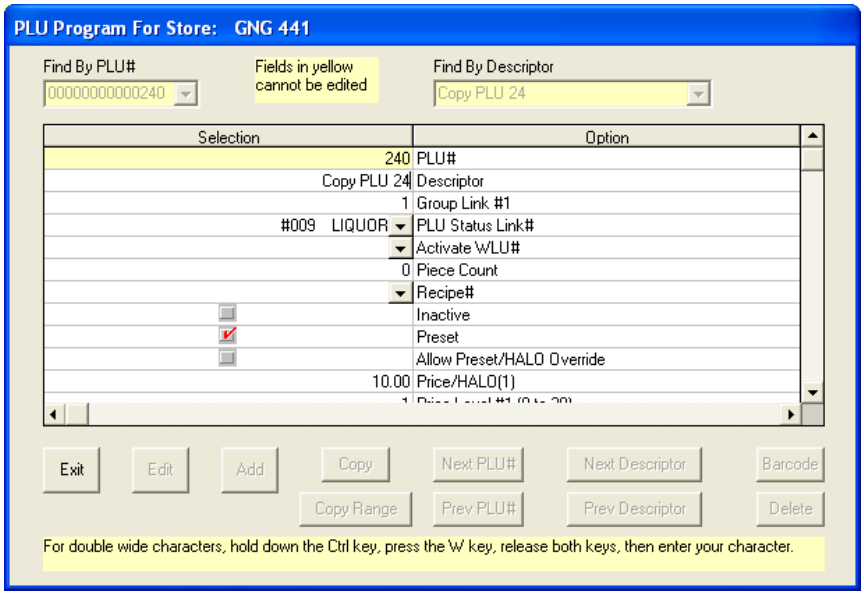


   - Type a PLU descriptor in the box and press **ENTER**, or open the Find by Descriptor drop down list box and click on the PLU you wish to edit. If necessary, use the scroll box to view the list of PLUs in the file. Open the Find by Descriptor drop down list box. Select the PLU you wish to edit. With the list box open, you can type the beginning letter or letters of a PLU descriptor and PLUs beginning with your entry will display in the box.



   - Click **Next PLU #, Prev PLU #, Next Descriptor,** or **Prev Descriptor** to find the next PLU you wish to edit.

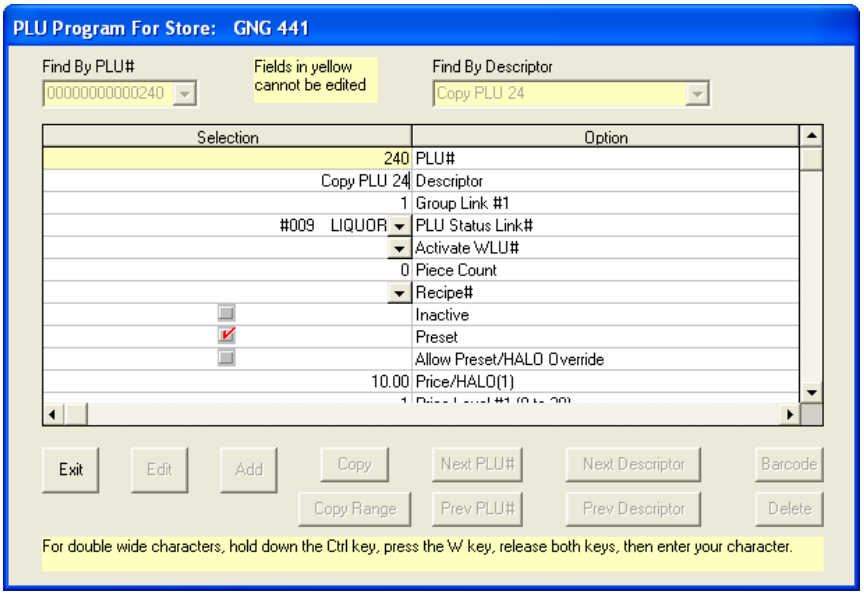
2. Click the **Edit** button to open the selection fields for editing. Note fields in yellow cannot be edited. Note that you must use the scroll bar to access the fields that are not currently in view.



3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with numeric information by double clicking on the field, then entering new data. If you are entering price data, you must use the decimal key.
   - You can edit fields with drop-down list boxes (such as the PLU STATUS LINK# field) by opening the list box and selecting from the available options.
   - You can edit fields with check boxes (such as the PRESET field) by clicking on the field to add or remove a check.
4. Click **Exit** to save changes.

Adding a PLU

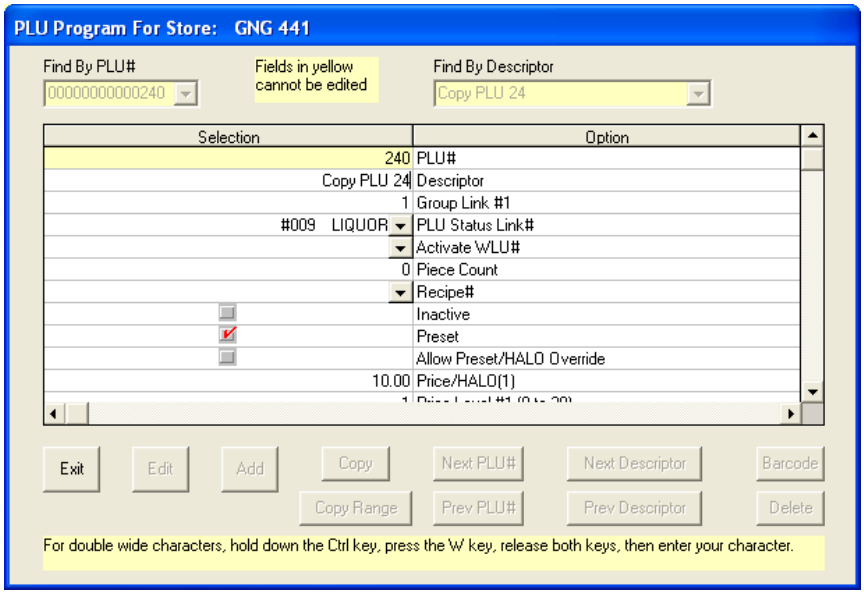
1. Click the **Add** button. A new PLU screen opens for entries.



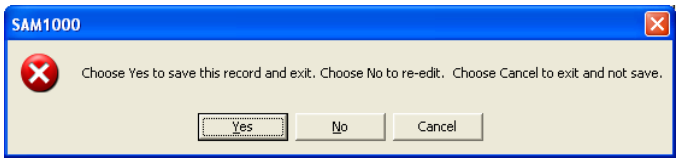
2. Enter the PLU number you wish to assign in the *PLU #* field, and then complete entries for the new PLU.
3. Click **Exit** to save changes.

Copying a PLU

1. Select the PLU you wish to copy.
2. Click the **Copy** button. A new PLU screen opens for edits.



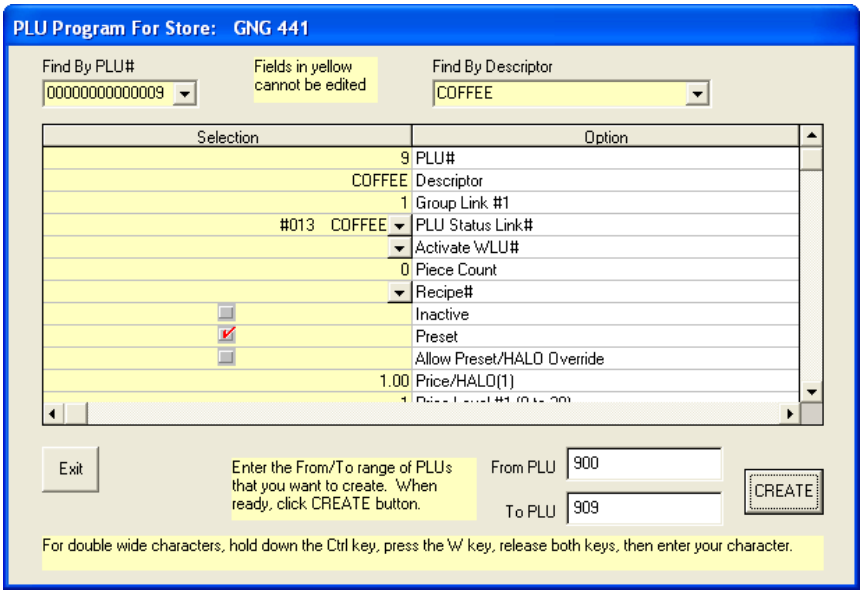
3. Enter the new PLU #, Descriptor, and change any other fields as necessary.
4. Click **Exit** to save changes. A confirmation dialog displays.



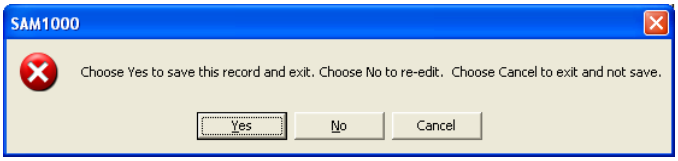
5. Choose **Yes** to save the new PLU, choose **No** to re-edit, or choose **Cancel** to exit without saving.

Copying a Range of PLUs

1. Select the PLU you wish to copy.
2. Click the **Copy Range** button. A new PLU screen opens for edits.



3. Enter the range of PLUs you wish to create in the **From PLU** and **To PLU** fields.
4. Click **Create** to complete the copy. You will need to go to each PLU individually and edit the descriptor and other PLU attributes that are unique to the new PLUs. You can condinue to create new PLU ranges as necessary—click **Exit** when complete.

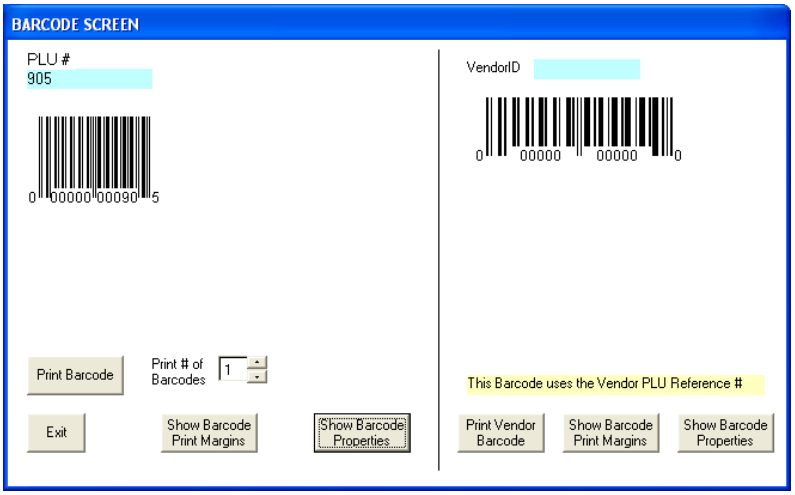


5. Choose **Yes** to save the new PLU, choose **No** to re-edit, or choose **Cancel** to exit without saving.
6. Go to each individual PLU in the PLU range you created to edit the PLU Descriptor, Price, etc.

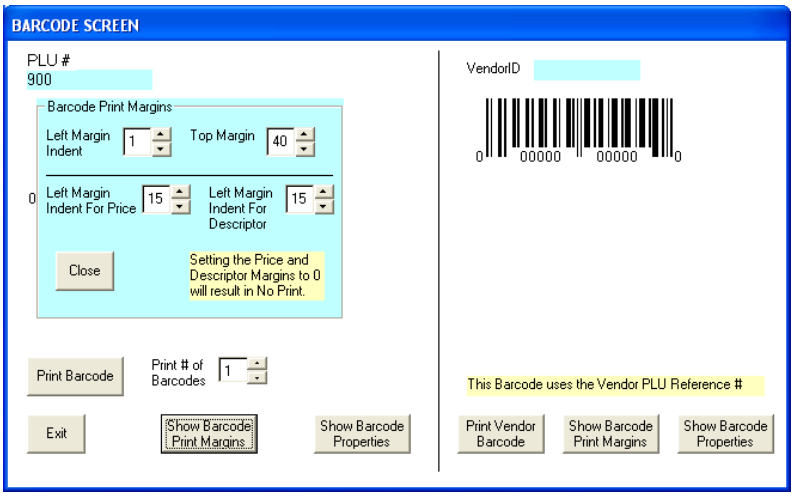
Barcode

You can print barcodes to your default printer. The label will print to the label size selected in printer settings. For best results use a label printer such as the *Samsung SRP-770* label printer (contact your CRS representative or the CRS Parts & Peripherals Division for more information.)

1. Select the **Barcode** tab from the PLU programming screen. The screen displays a view of the barcode with the current barcode property settings.



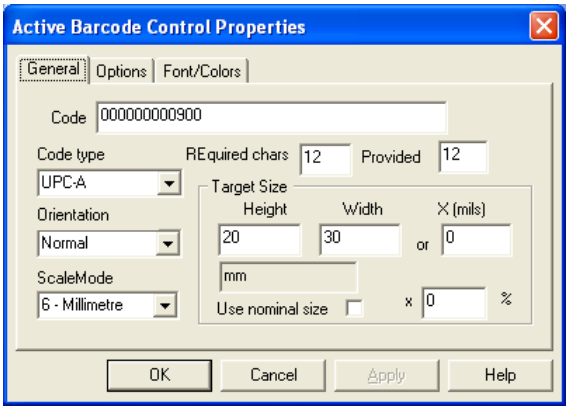
2. Click the **Show Barcode Print Margins** button.



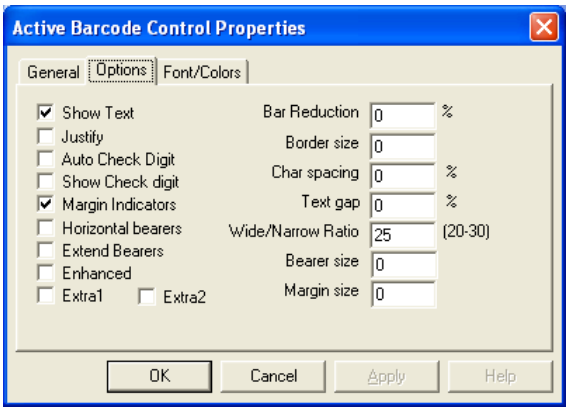
3. Set the margins as indicated for the SPR-770 printer loaded with 1 ¼" x 2 ¼" labels. Adjust settings as necessary for other label/printer combinations.

4. Click the **Show Barcode Properties** button. The **Active Barcode Control Properties** dialog box displays with the **General** tab selected.

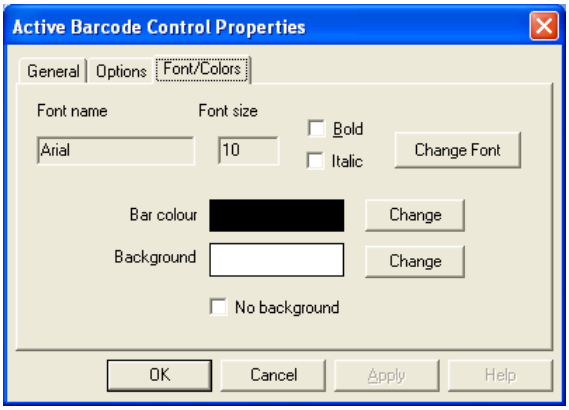
5. Select the *Code type* and set the properties as indicated for the SPR-770 printer loaded with 1 ¼" x 2 ¼" labels. Adjust settings as necessary for other label/printer combinations.



6. Click the **Options** tab and set the properties as indicated.

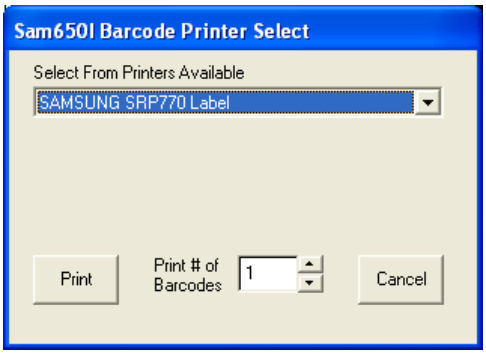


7. Click the **Font/Colors** tab. Click the Change Font button and select the font size and style for the print of the bar code number.



8. Click **OK** to accept the settings and view the bar code as specified.

9. Click the Print this Barcode button. Select printer from list then click **Print**.

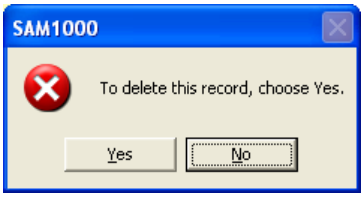


10. The print sample below was generated by a Samsung SRP-770 label printer on a 1 ¼" x 2 ¼" label.



Deleting a PLU

1. Select the PLU you wish to delete.
2. Click the **Delete** button.
3. A warning dialog displays asking if you are sure you wish to delete the PLU.



4. Click **Yes** to delete the PLU; click **No** to abort the delete process.

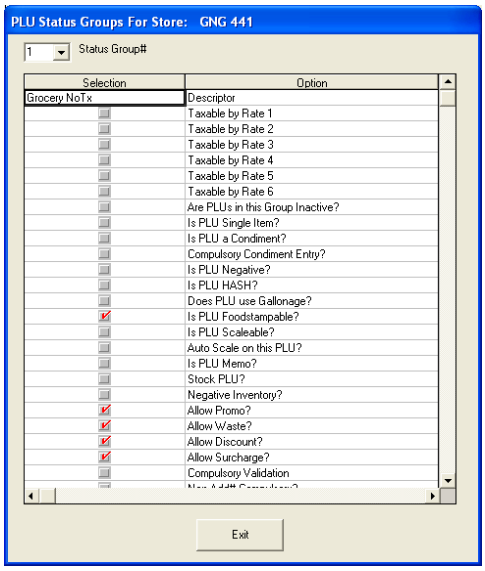
Note: To delete a PLU, all totals (Z1 through Z5) for that PLU must first be cleared. PLUs will not be deleted at the register unless there is no register activity and deleted PLUs are downloaded. (See "Send Programs to ECR (Download)" on page 72.)

PLU Status Group

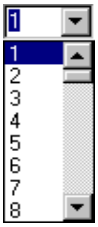
Options associated with each PLU Status Group are maintained here. Follow the instructions on the screen, or refer to the *Samsung SPS 1000 Program Manual* for a complete description of your program options.

The total number of PLU status groups is defined by memory allocation.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **PLU** to open the PLU menu. Choose **PLU Status Group**. The PLU Status Groups screen displays with the first status group in the store file displayed.



2. Select the Status Group you wish to edit by typing a number in the box and pressing **ENTER**, or open the Status Group# drop down list box and click on the group you wish to edit. If necessary, use the scroll bar to view all of the groups.

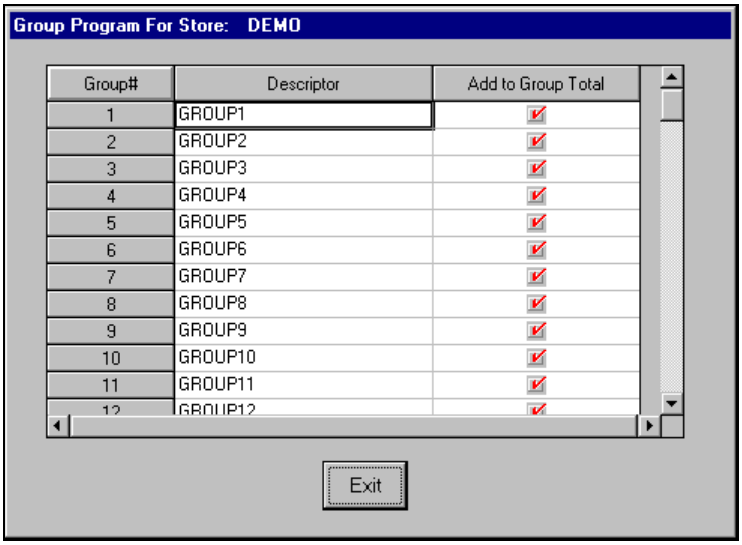


3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with numeric information by double clicking on the field, then entering new data.
   - You can edit fields with drop-down list boxes by opening the list box and selecting from the available options.
   - You can edit fields with check boxes by clicking on the field to add or remove a check.
4. Click **Print Grid** to print or **Exit** to save changes.

Group

You can program the descriptor and options for each of the 99 groups. Follow the instructions on the screen, or refer to the *Samsung SPS 1000 Program Manual* for a complete description of your program options.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Group** to display the Group Program screen for the selected store file.

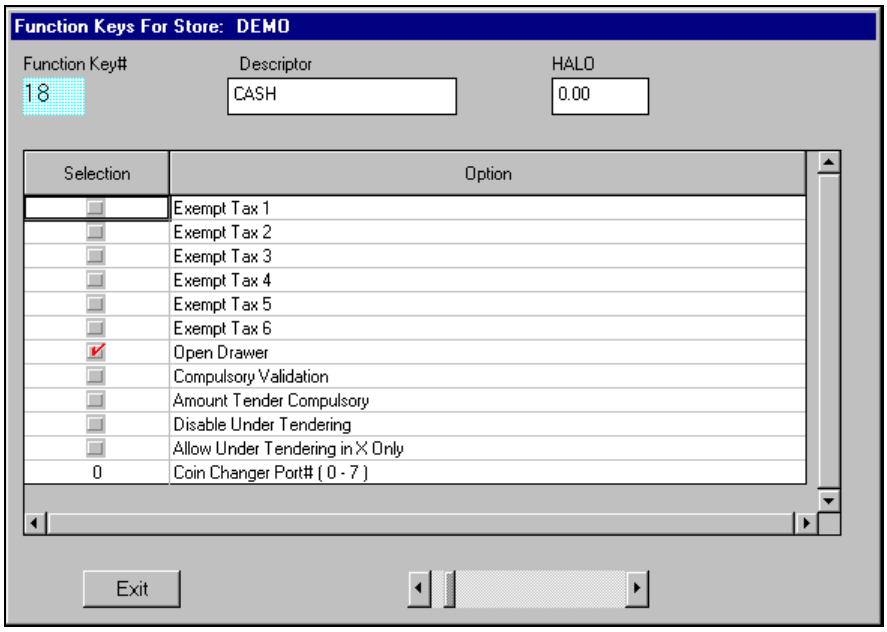


2. Use the scroll box at the right of the screen to select the group you wish to program.
3. The options for the specific group are displayed. Make selections or changes as necessary.
4. Click **Exit** to save changes and return to the main menu.

Function Keys

You can program the different options for each function key. Follow the instructions on the screen, or refer to the *Samsung SPS 1000 Program Manual* for a complete description of your program options.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Function Keys** to display the Function Keys screen.
2. Use the scroll box at the bottom of the screen to select the function key you wish to program. Note that the options vary from one function key to another.

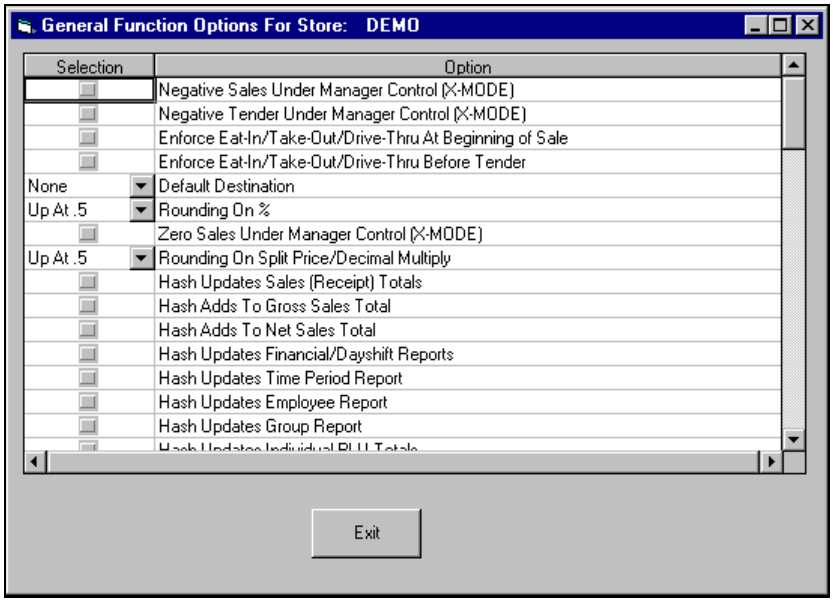


3. Make selections or changes as necessary.
4. If needed, use the scroll box to select additional function keys you wish to program.
5. Click **Exit** to save changes and return to the main menu.

Options

Options are sorted by category to assist the programmer in finding a specific option. Follow the instructions on the screen, or refer to the *Samsung SPS 1000 Program Manual* for a complete description of your program options.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Options**.
2. Choose one of the following option categories:
    - **General Function Options**
    - **Tax Options**
    - **Cash Drawer Options**
    - **Training Mode Options**
    - **Level/Modifier Options**
    - **Tracking File Options**
    - **Kitchen Printing/Video Options**
    - **Validation/Subtotal Print Options**
    - **General Printing Options**
    - **Report Printing Options**
    - **Report Options**
    - **Time Keeping Options**
    - **E.J. and Detail Printing Options**
3. The General Function Options screen is shown below:



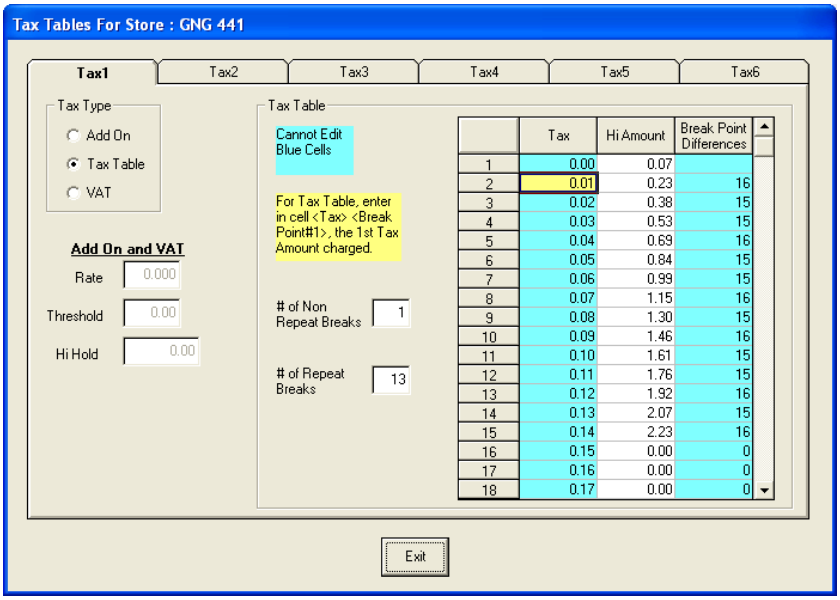
4. Use the scroll box at the right of the screen to find the option you wish to program.

5. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
    - You can edit fields with numeric information by double clicking on the field, then enter new data. If you are entering data with a decimal, you must use the decimal key.
    - You can edit fields with drop-down list boxes by opening the list box and selecting from the available options.
    - You can edit fields with check boxes by clicking on the field to add or remove a check.
6. Click **Exit** to save changes.

Tax Tables

Tax 6 should be used for the Canadian Goods and Services tax (GST). Here you have the option of taxing the GST by other applicable rates (tax on tax).

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Tax Tables**, and then select either Tax Rates 1-5 or Tax Rate 6 to display the appropriate Tax Rate Program screen for the selected store file.

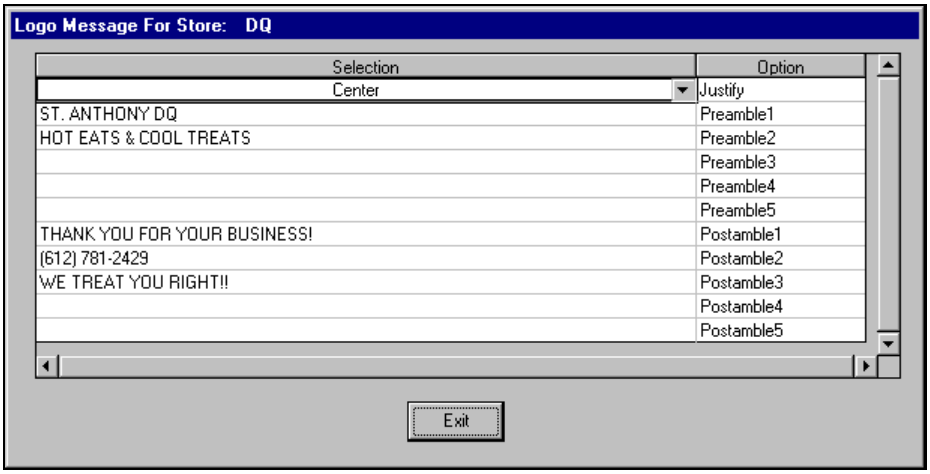


2. If you are programming tax 1-5, select the tax from the **Tax#** drop down box.
3. Select the tax type option button.
4. If the tax type you select is Add On or VAT, the **Rate**, **Threshold** and **High Hold** fields are activated; if you select Table, the **Table** fields are activated.
5. Complete the appropriate fields. Refer to the *Samsung SPS 1000 Program Manual* for a complete description of your program options.
6. Click **Exit** to save changes.

Messages

Logo

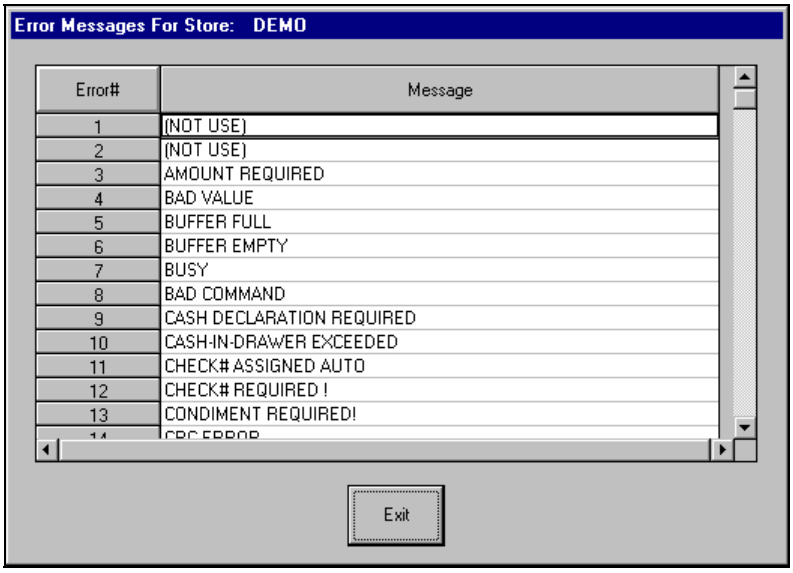
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **Logo** to display the Logo Messages screen for the selected store file.



2. Use the scroll box at the right of the screen to find the message you wish to program.
3. Select Left, Right, or Center justification from the **Justify** drop down box.
4. Enter a new message or edit an existing message by double clicking on a field, then typing a new message.
5. Click **Exit** to save changes.

Error Messages

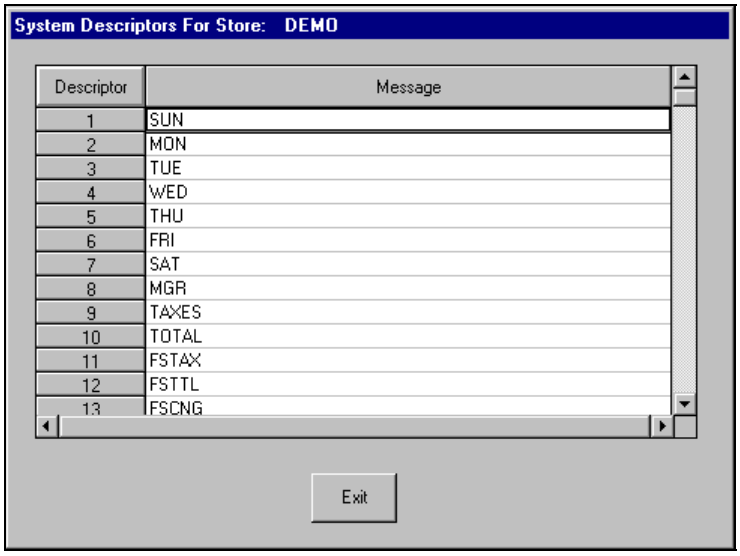
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **Error Messages** to display the Error Messages screen for the selected store file.



2. Use the scroll box at the right of the screen to find the message you wish to program.
3. Edit messages as necessary by double clicking on a field, then typing a new message.
4. Click **Exit** to save changes.

System Descriptors

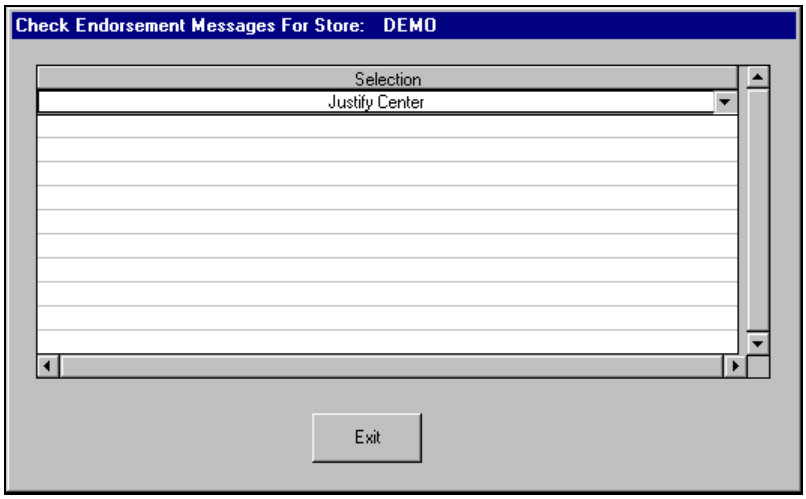
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **System Descriptors** to display the System Descriptors screen for the selected store file.



2. Use the scroll box at the right of the screen to find the message you wish to program.
3. Edit descriptors as necessary by double clicking on a field, then typing a new descriptor.
4. Click **Exit** to save changes.

Check Endorsement Messages

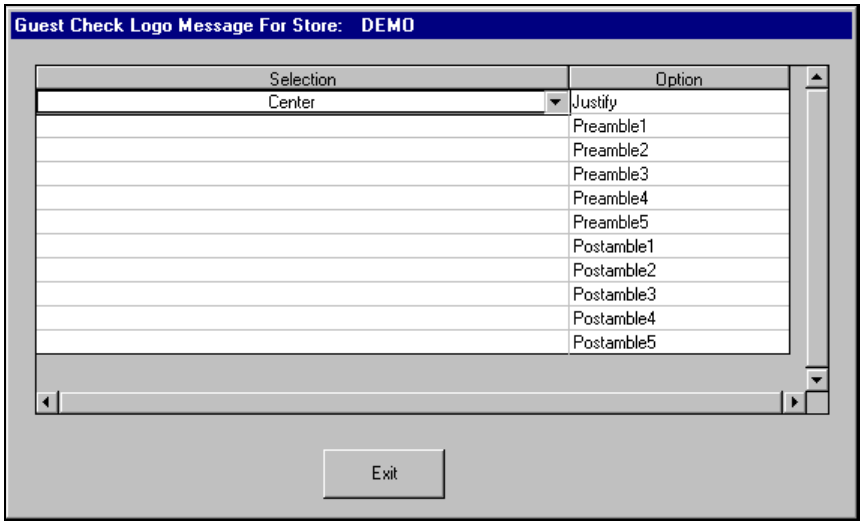
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **Check Endorsement Messages** to display the Check Endorsement Messages screen for the selected store file.



2. Select Left, Right, or Center justification from the **Justify** drop down box.
3. Enter a new message or edit an existing message by double clicking on a field, then typing a new message.
4. Click **Exit** to save changes.

Guest Check Logo Message

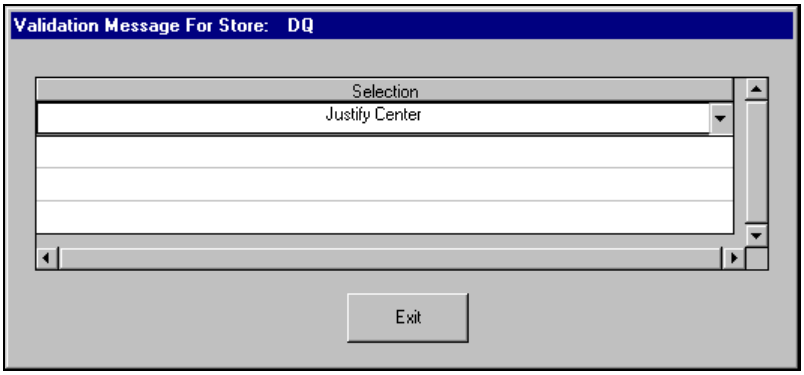
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **Guest Check Logo Message** to display the Guest Check Logo Message screen for the selected store file.



2. Select Left, Right, or Center justification from the **Justify** drop down box.
3. Enter a new message or edit an existing message by double clicking on a field, then typing a new message.
4. Click **Exit** to save changes.

Validation Message

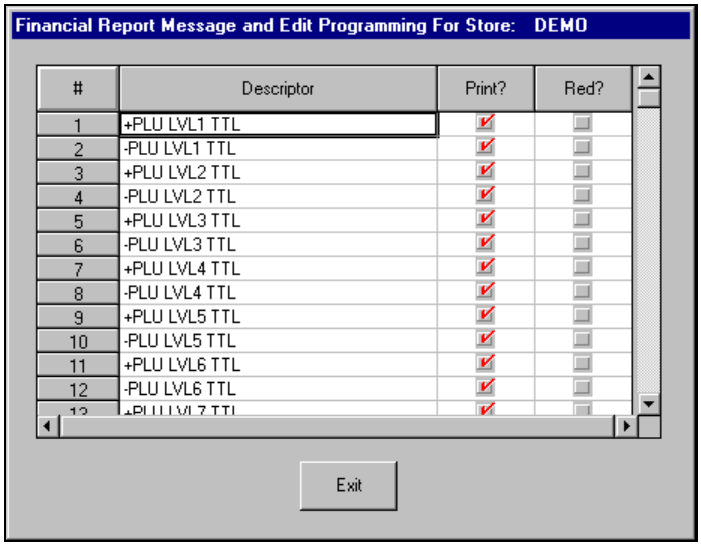
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **Validation Message** to display the Validation Message screen for the selected store file.



2. Select Left, Right, or Center justification from the **Justify** drop down box.
3. Enter a new message or edit an existing message by double clicking on a field, then typing a new message.
4. Click **Exit** to save changes.

Financial Report Messages

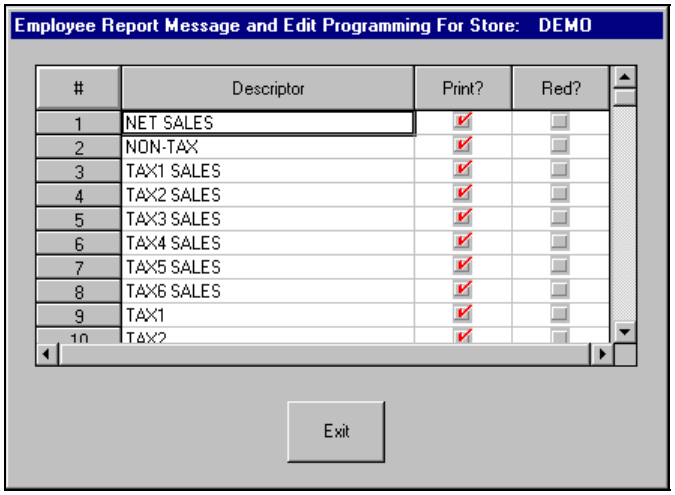
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **Financial Report Message** to display the Financial Report Messages screen for the selected store file.



2. Use the scroll box at the right of the screen to find the message you wish to program.
3. Edit messages as necessary by double clicking on a field, then typing a new message.
4. Click the **Print?** or **Red?** check boxes to set the appropriate status for appearance on reports.
5. Click **Exit** to save changes.

Employee Report Messages

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Messages**, then select **Employee Report Message** to display the Employee Report Messages screen for the selected store file.



2. Use the scroll box at the right of the screen to find the message you wish to program.
3. Edit messages as necessary by double clicking on a field, then typing a new message.
4. Click the **Print?** or **Red?** check boxes to set the appropriate status for appearance on reports.
5. Click **Exit** to save changes.

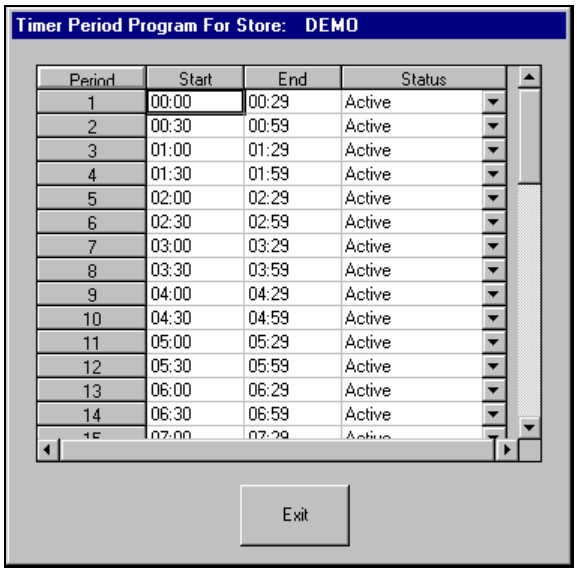
Time Periods

Memory allocation determines whether there are 24, 48, or 96 time periods. Time periods will default to hourly periods if 24 periods are selected in memory allocation; 30 minute periods if 48 periods are selected; 15 minute periods if 96 periods are selected.

Periods can be set to custom lengths using this program. If fewer periods are needed than are available, unneeded periods can be inactivated so that they will not appear on reports. To inactivate a period, replace "active" for the period with an "inactive".

All time units are based upon a 24 hour clock (military time).

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Time Periods** to display the Time Period Program screen for the selected store file.



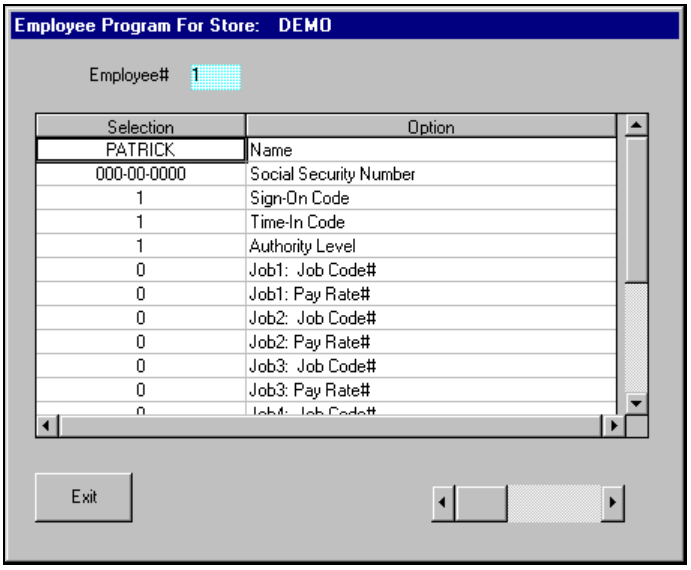
2. Use the scroll box at the right of the screen to find the time period you wish to program.
3. Edit times as necessary by double clicking on a field, then typing a new time.
4. Select Active or Inactive from the drop down box to determine if the period is used.
5. Click **Exit** to save changes.

Employee

Two 10 digit code numbers may be assigned for each employee. A time keeping code is used to clock in or out and a separate sign on code used to operate the register. The social security number is for reference only and appears only on reports.

The total number of employees (up to 999) is set in memory allocation. See "Memory Allocation" in "S-Mode Programming".

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Employee**, then select **Employee** to display the Employee Program screen for the selected store file.

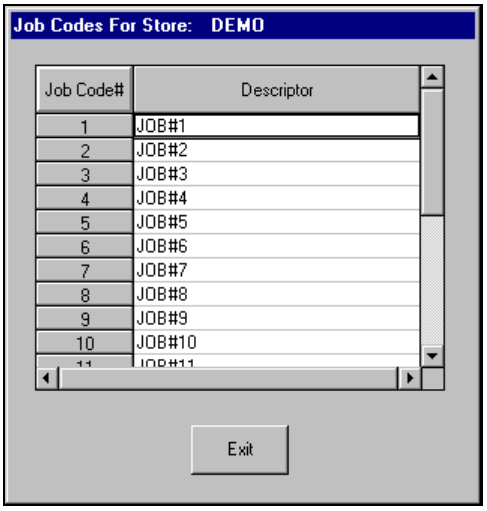


2. Move the scroll box to select the employee you wish to work with. Drag the scroll box or click the scroll arrows to find your selection.
3. Use the scroll box at the right of the screen to find the field you wish to program.
4. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with alpha numeric or numeric information by double clicking on the field, then entering new data.
   - You can edit fields with drop-down list boxes by opening the list box and selecting from the available options.
   - You can edit fields with check boxes by clicking on the field to add or remove a check.
5. Click **Exit** to save changes.

Job Codes

The job codes to be used by all employees are set up here. There are 20 possible job codes. Each job code you wish to activate must be given a descriptor here.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Employee**, then select **Job Codes** to display the Job Codes Program screen for the selected store file.

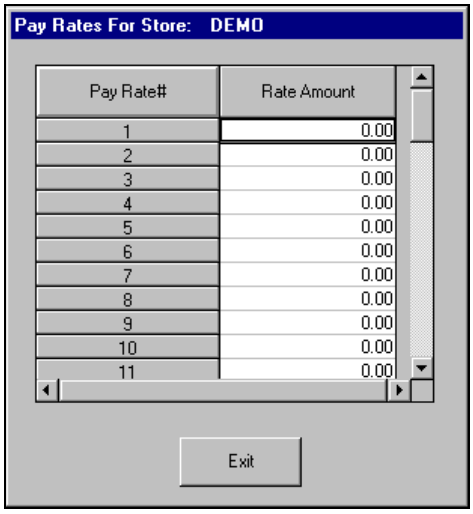


2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit job codes as necessary by double clicking on a field, then entering a new descriptor.
4. Click **Exit** to save changes.

Pay Rates

The pay rates to be used by all employees are set up here. There are 50 pay rates.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Employee**, then select **Pay Rates** to display the Pay Rates Program screen for the selected store file.

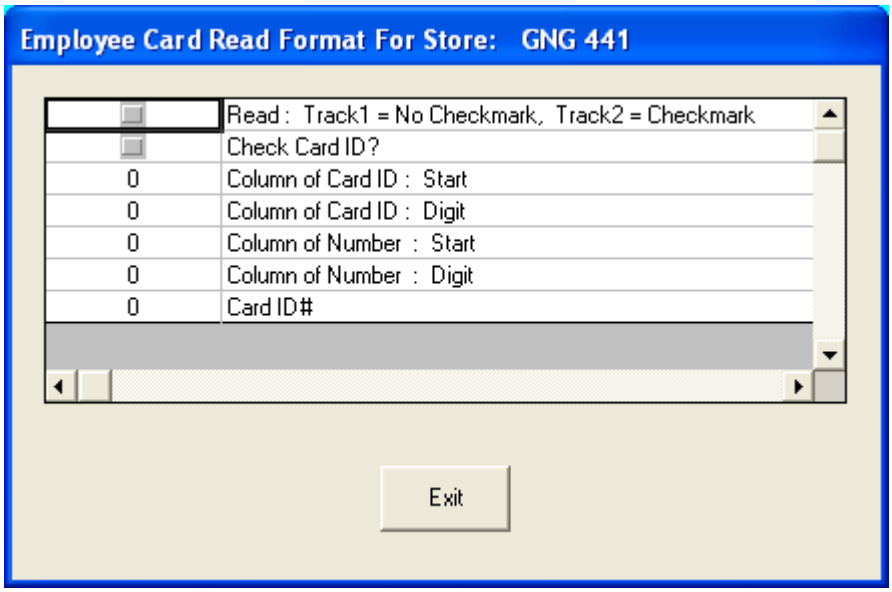


2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit pay rates as necessary by double clicking on a field, then entering a new rate. Use the decimal key as necessary.
4. Click **Exit** to save changes.

Employee Card Read Format

The Employee Card Read Format is programmed here to have the optional magnetic card reader operate for employee sign on. Information set here determines the number that is read when the card is swiped.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Employee**, nad then select **Card Read Format** to display the Card Read Format Program screen for the selected store file.



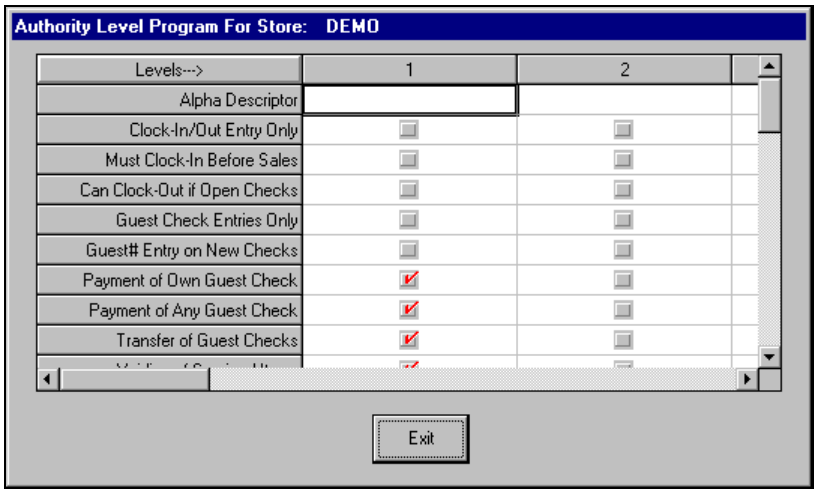
2. Click on the check boxes and fill in the numeric fields to program your magnetic card reader to work for employee sign in.

Authority Levels

Each employee must be assigned to one of nine authority levels. The selections made here for each authority level determine the operations that are allowed for each employee.

The total number of authority levels is determined in memory allocation.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Authority Levels** to display the Authority Level Program screen for the selected store file.



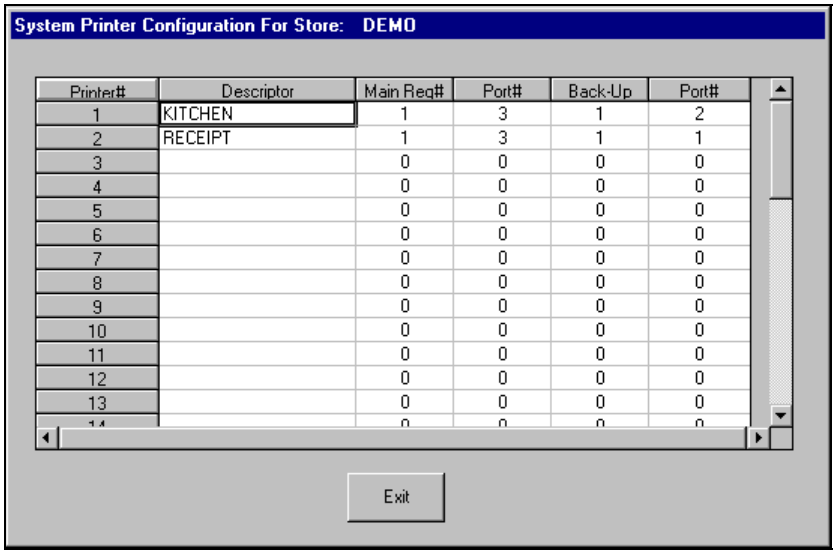
2. Use the scroll boxes at the right of the screen and the bottom of the screen to find the field you wish to program.
3. Edit fields as necessary by clicking on the field to add or remove a check.
4. Click **Exit** to save changes.

Printer Tables and KV Routing

System Printer Configuration

Use System Printer Routing to define the locations within the system for up to 40 possible system printers.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Printer Tables and KV Routing**, then select **System Printer Configuration** to display the System Printer Configuration screen for the selected store file.

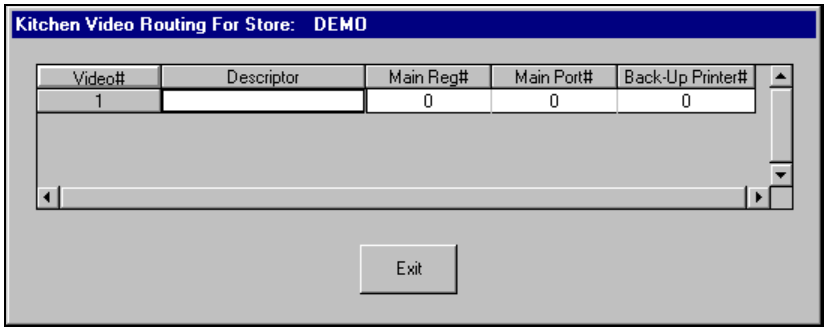


2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. You can edit fields with alpha numeric or numeric information by double clicking on the field, then entering new data.
4. Click **Exit** to save changes.

Kitchen Video Routing

Use Kitchen Video Routing to define the location of the video controller. If you wish to designate a backup printer in the event that the video system is not operational, enter the location of the back-up printer here.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Printer Tables and KV Routing**, then select **Kitchen Video Routing** to display the Kitchen Video Routing screen for the selected store file.

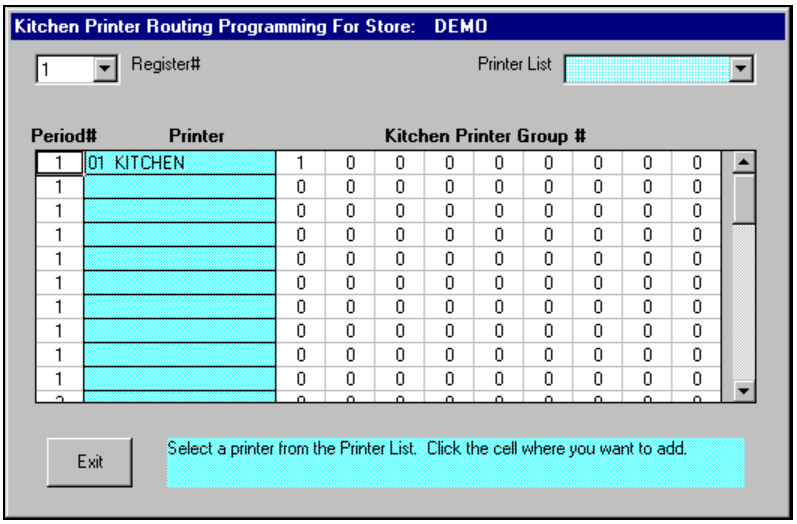


2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. You can edit fields with alpha numeric or numeric information by double clicking on the field, then entering new data.
4. Click **Exit** to save changes.

Kitchen Printer Routing

Use Kitchen Printer Routing to link kitchen printer assignment to actual printers.

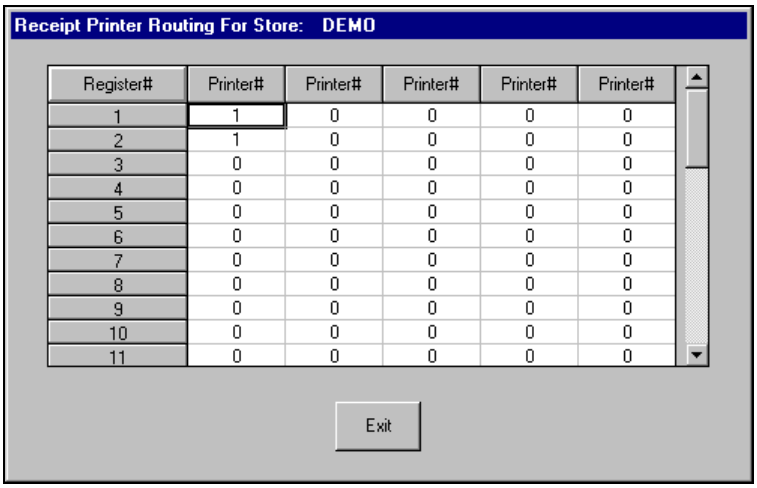
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Printer Tables and KV Routing**, then select **Kitchen Printer Routing** to display the Kitchen Printer Routing Programming screen for the selected store file.



2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit the **Printer** field by selecting a printer from the **Printer List** drop down box, then clicking on the appropriate cell.
4. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. Double click on the field, then enter new data.
5. Click **Exit** to save changes.

Receipt Printer Routing

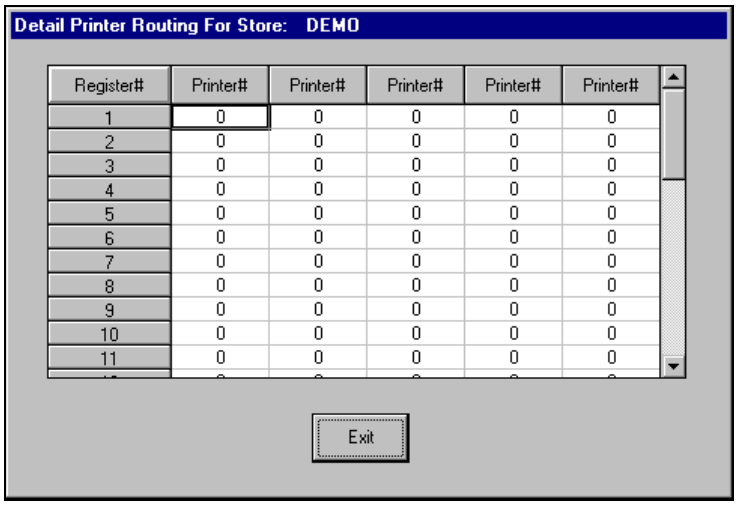
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Printer Tables and KV Routing**, then select **Receipt Printer Routing** to display the Receipt Printer Routing screen for the selected store file.



2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. Double click on the field, then enter new data.
4. Click **Exit** to save changes.

Detail Printer Routing

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Printer Tables and KV Routing**, then select **Detail Printer Routing** to display the Detail Printer Routing screen for the selected store file.



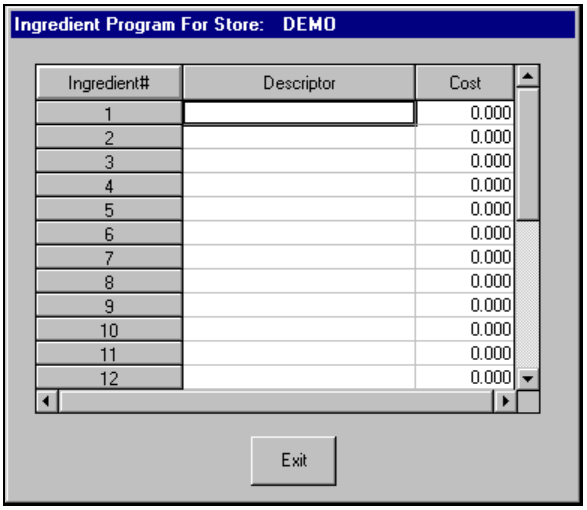
2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. Double click on the field, then enter new data.
4. Click **Exit** to save changes.

Ingredient Inventory

A *menu-explosion type inventory system* is set up when PLUs are linked to a recipe#. Select Ingredient Inventory to maintain recipe files and ingredient lists.

Edit Ingredient

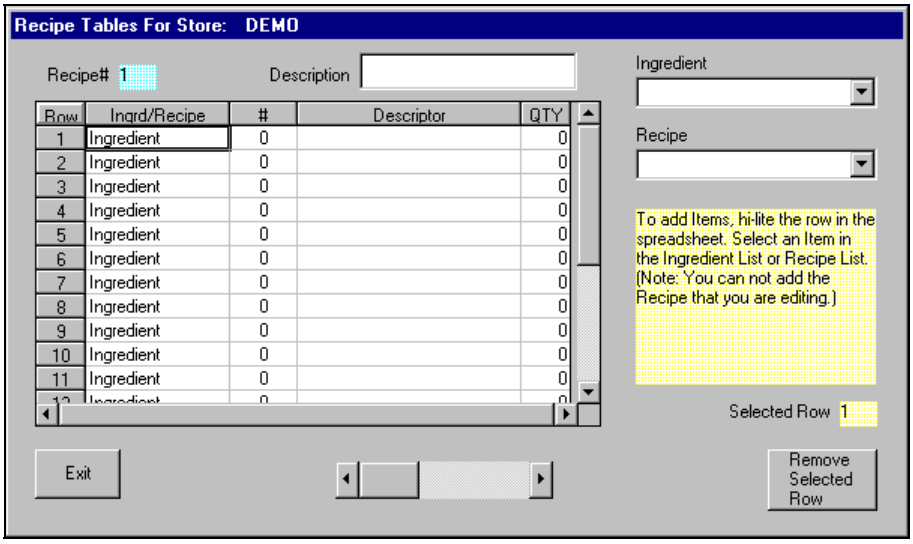
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Ingredient Inventory**, then select **Edit Ingredient** to display the Ingredient Program screen for the selected store file.



2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. Double click on the field, then enter new data.
4. Click **Exit** to save changes.

Recipe Table

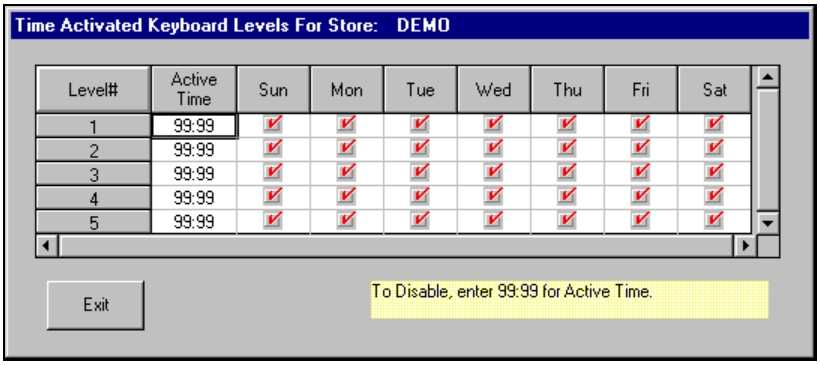
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Ingredient Inventory**, then select **Recipe Table** to display the Recipe Table screen for the selected store file.



2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. Double click on the field, then enter new data.
4. Click **Exit** to save changes.

Time Activated Functions

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Time Activated Function**.
2. Choose one of the following option categories:
    - **Keyboard Levels**
    - **Price Levels**
    - **Macros**
    - **String Reports**
    - **Shifts**
    - **KP Time Period**
3. The Time Activated Keyboard Levels screen is shown below:



2. If necessary, use the scroll box at the right of the screen to find the field you wish to program.
3. Edit the Active Time fields as necessary by moving your mouse pointer to the field you wish to edit. Double click on the field, then enter new data.
4. Edit the day of week fields by clicking on the field to add or remove a check mark.
5. Click **Exit** to save changes.

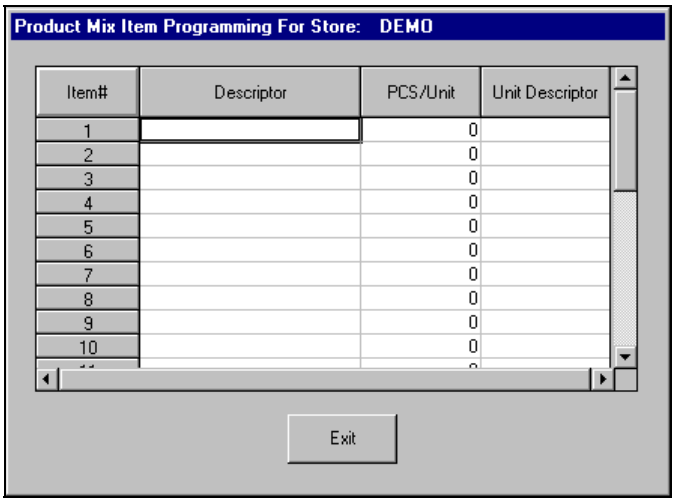
Product Mix Groups

Product Mix Groups can be used to implement a simplified ingredient system for tracking only essential ingredients associated with items (i.e. cups for beverages or number of pieces for chicken menus.)

Product mix groups also report usage by time period and optional Product Projections reporting is also available. The Product Projection report provides a history of each item's sales by day of week.

Product Mix Items

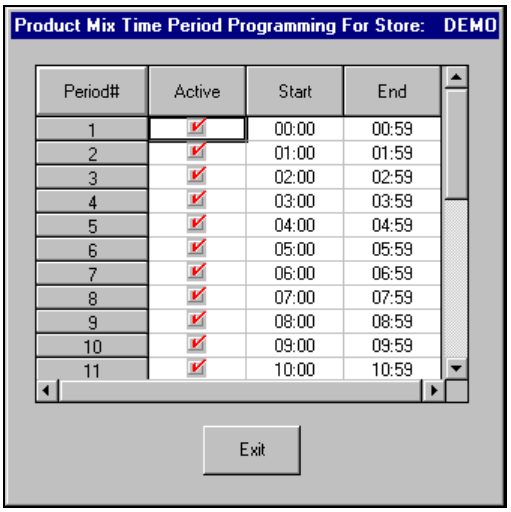
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Product Mix Groups**, then select **Product Mix Items** to display the Product Mix Item Programming screen for the selected store file.



2. Use the scroll box at the right of the screen to find the field you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit. Double click on the field, then enter new data.
4. Click **Exit** to save changes.

Product Mix Group Time Periods

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Product Mix Groups**, then select **Product Mix Group Time Periods** to display the Product Time Period Programming screen for the selected store file.

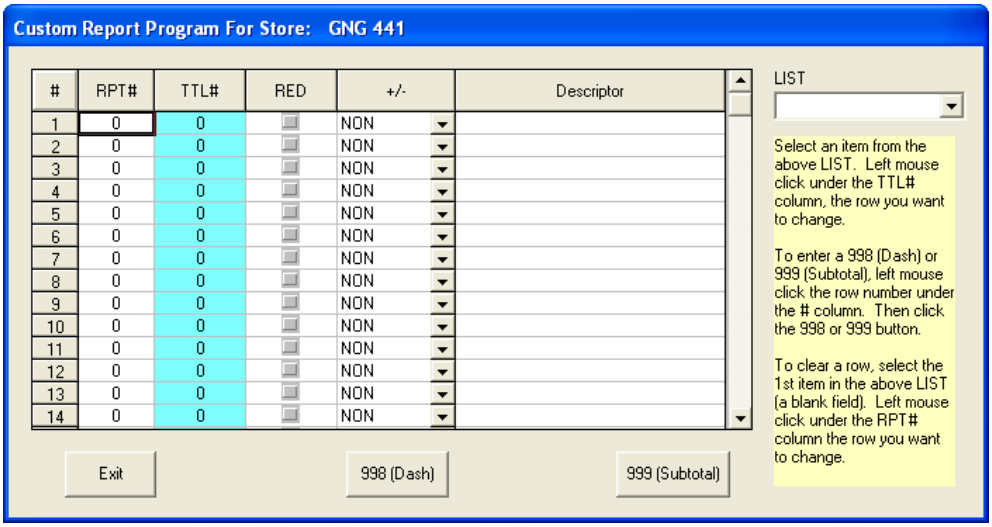


2. Use the scroll box at the right of the screen to find the time period you wish to program.
3. Edit times as necessary by double clicking on a field, then typing a new time.
4. Select Active or Inactive from the drop down box to determine if the period is used.
5. Click **Exit** to save changes.

Custom Report

One custom report can be created. Also, on the financial or employee report, any total may be deleted, or printed in red (provided the printer has red/black printing capability.)

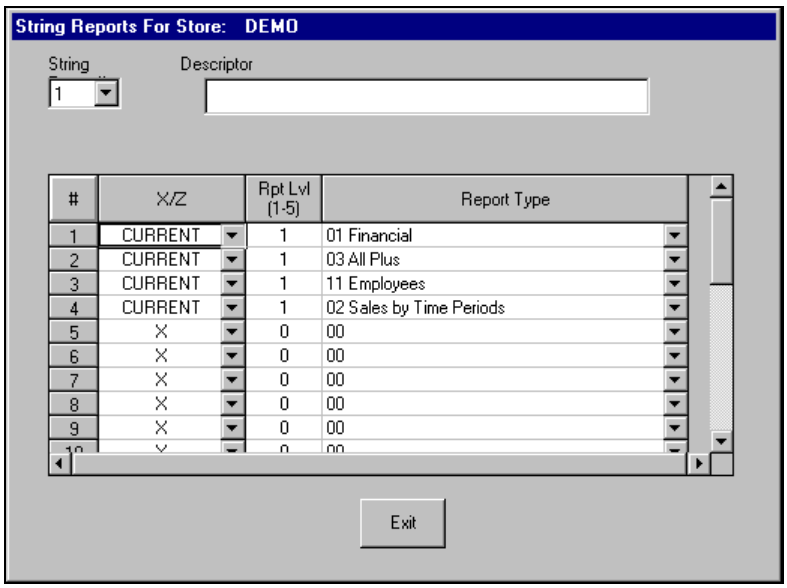
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Custom Report** to display the Custom Report Program screen for the selected store file.



2. Use the scroll box at the right of the screen to find the total on the report you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with numeric information by double clicking on the field, then entering new data.
   - You can edit fields with drop-down list boxes (such as the +/- field) by opening the list box and selecting from the available options.
   - You can edit fields with check boxes by clicking on the field to add or remove a check.
4. Click **Exit** to save changes.

String Report

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **String Report** to display the String Reports screen for the selected store file.

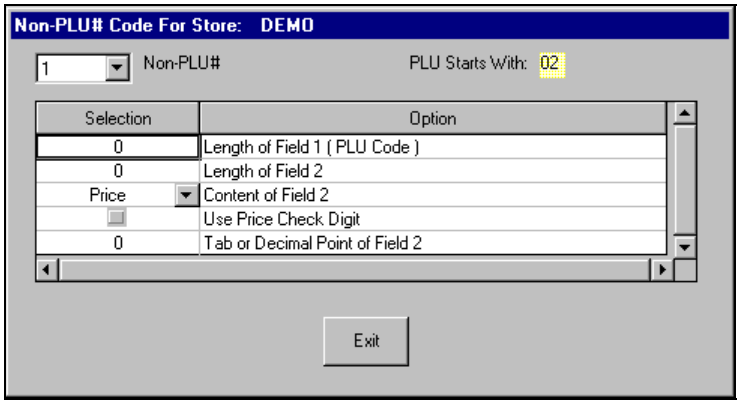


2. Enter the string report # you wish to edit, or select the string report at the **String Report#** list box.
3. Use the scroll box at the right of the screen to find the total on the report you wish to program.
4. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with numeric information by double clicking on the field, then enter new data.
   - You can edit fields with drop-down list boxes by opening the list box and selecting from the available options.
5. Click **Exit** to save changes.

Non-PLU Code

The NON-PLU Code program must be set if you wish to scan UPCs (using the EAN 13 code) with embedded prices, weights or quantities. Refer to the *Samsung SPS 1000 Program Manual* for a complete description of your options in this program.

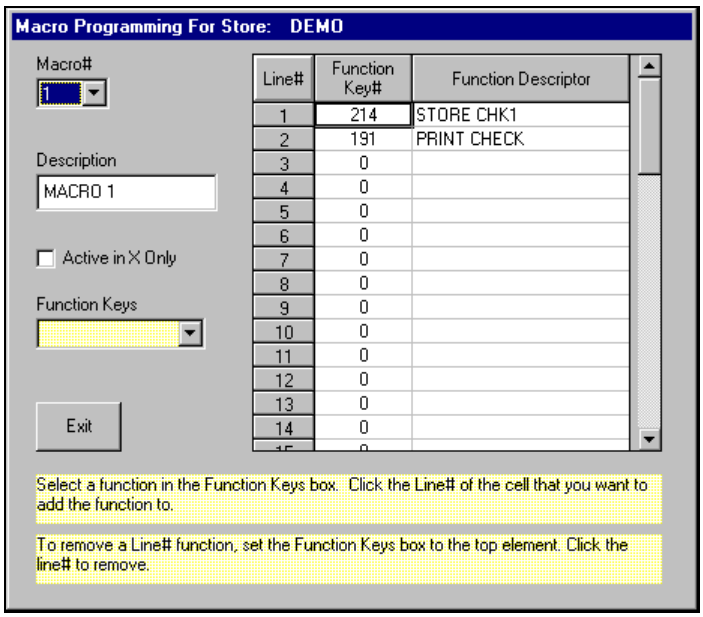
1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Non-PLU Code** to display the Non PLU# Code screen for the selected store file.



2. Enter the Non PLU Code # you wish to edit, or select the number at the **Non PLU#** list box.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with numeric information by double clicking on the field, then entering new data.
   - You can edit fields with drop-down list boxes by opening the list box and selecting from the available options.
   - You can edit fields with check boxes by clicking on the field to add or remove a check.
4. Click **Exit** to save changes.

Macros

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Macros** to display the Macro Programming screen for the selected store file.

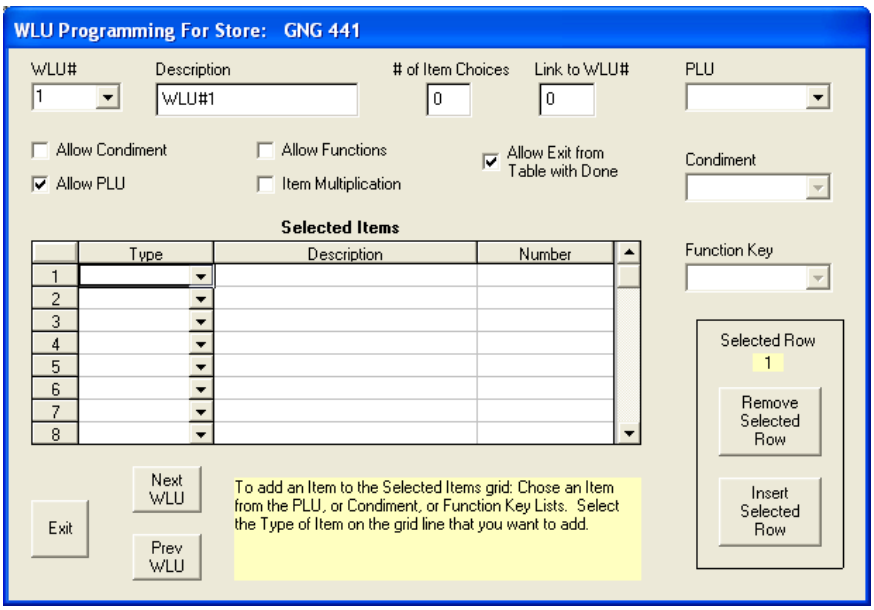


2. Enter the Macro # you wish to edit, or select the macro at the **Macro#** list box.
3. Add a function to a macro line# by first selecting the function you wish to add from the **Function Key** list box, then click a cell adjacent to the line # you wish to set.
4. To remove a function from a macro sequence, replace the existing function with Function Key #0.
5. Click **Exit** to save changes.

WLU

There are three types of items that can be found on a Window Look-Up (WLU): condiments, functions, and PLUs. Refer to the *Samsung SPS 1000 Program Manual* for a complete discussion of WLU options.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **WLU** to display the WLU screen for the selected store file.

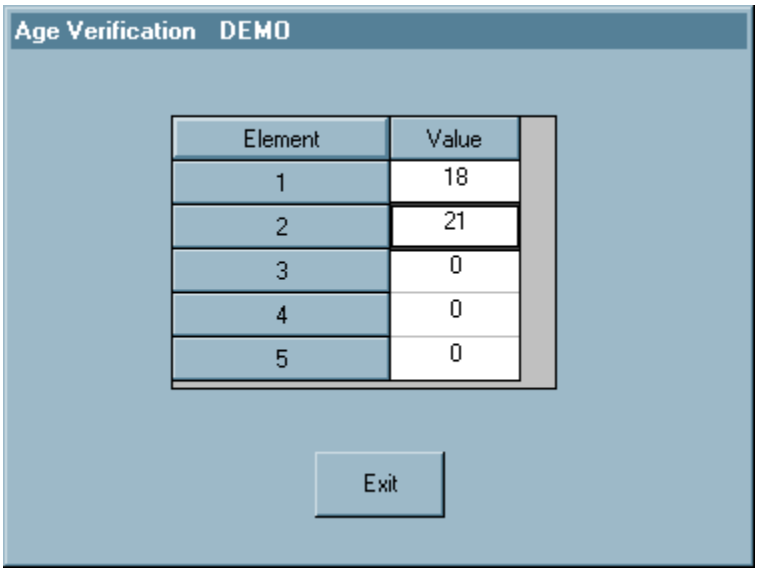


2. Use the WLU # drop down list box to select the WLU you wish to edit.
3. If necessary, edit the *Description*, *# of Item Choices* and *Link to WLU#* fields, then edit the option check boxes for the WLU.
4. To add items to the WLU, first select the item you wish to add from the *PLU*, *Condiment*, or *Function Key* drop down list box. Then select the **Type** on the grid line where you want to add.
5. To remove an item from the WLU, select the grid line you wish to remove, and then click the **Remove Selected Row** button. You can add a new row before the selected row by clicking **Insert Selected Row**.
6. If necessary select another WLU by choosing **Next WLU** or **Prev WLU**. When editing is complete, click **Exit** to save changes.

Age Verification

Age Verification parameters may be programmed in Sam 1000. Five different ages may be set in the SPS-1000 to control the sale of age sensitive materials.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Age Verification** to display the Age Verification screen for the selected store file.

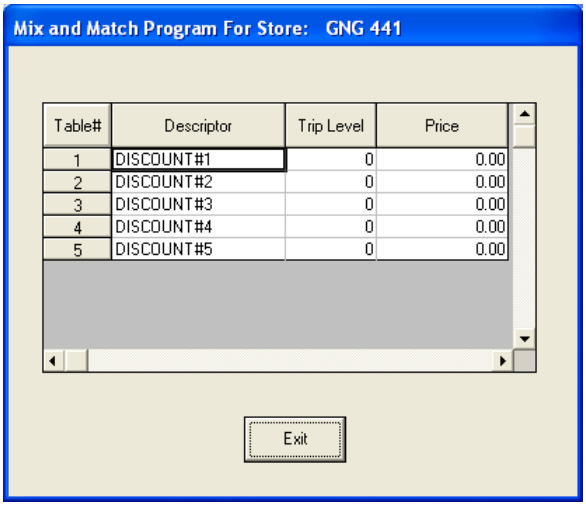


2. Select the Value text box for the appropriate Age Verification Element number and type in the age at which sales will be allowed.
3. Click on the Exit icon to return to the main menu and save your changes.

Mix and Match

Set Mix and Match discounts here.

1. Choose the **Edit ECR Data** menu, then select **P-Mode Programming** menu to open the P-Mode Programming menu. Select **Mix and Match** to display the Mix and Match screen for the selected store file.

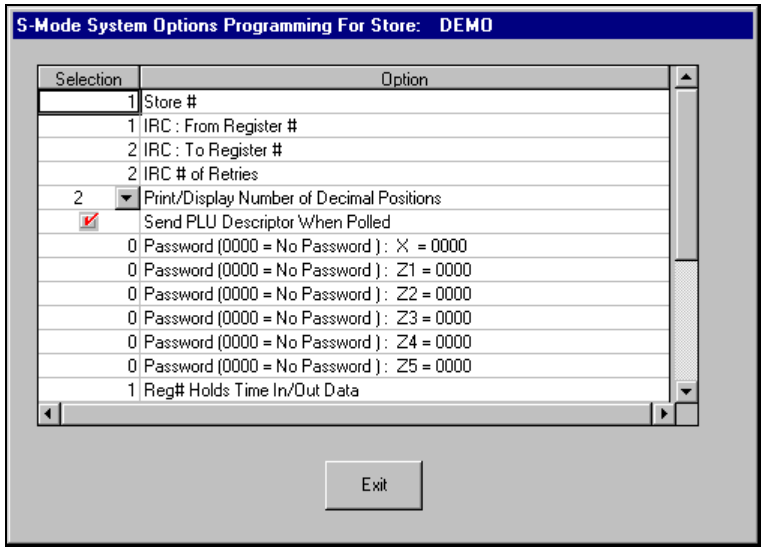


2. Enter descriptors, trip level and prices as appropriate.
3. Click on the **Exit** icon to return to the main menu and save your changes.

S-Mode System Options

Refer to the *Samsung SPS 1000 Program Manual* for a complete description of the S-Mode system options.

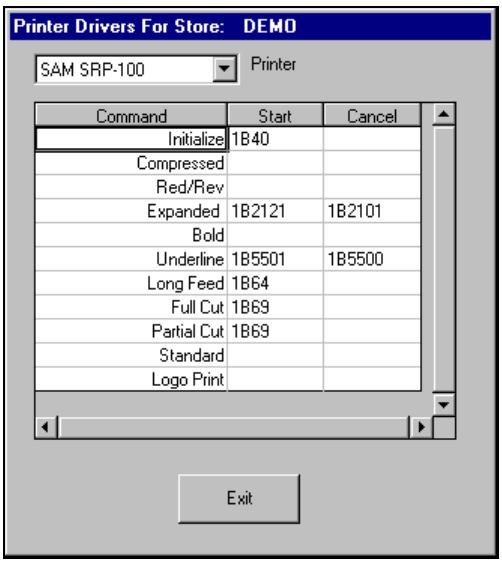
1. Choose the **Edit ECR Data** menu, then select **S-Mode** menu to open the S-Mode Programming menu. Select **System Options** to display the S-Mode System Option programming screen for the selected store.



2. Use the scroll box at the right of the screen to find the option you wish to program.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with numeric information by double clicking on the field, then entering new data.
   - You can edit fields with drop-down list boxes by opening the list box and selecting from the available options.
   - You can edit fields with check boxes by clicking on the field to add or remove a check.
4. Click **Exit** to save changes.

Printer Drivers

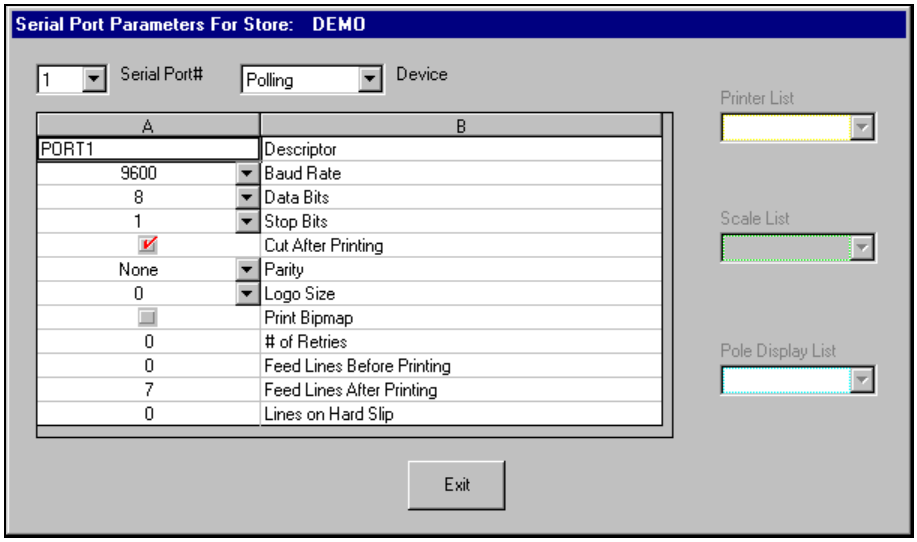
1. Choose the **Edit ECR Data** menu, and then select **S-Mode** to open the S-Mode Programming menu. Select **Printer Drivers** to display the Printer Drivers programming screen for the selected store.



2. Select the printer you wish to edit from the **Printer** list box.
3. Select the Start or Cancel field you wish to edit, then type new command information.
4. Click **Exit** to save changes.

Serial Port Parameters

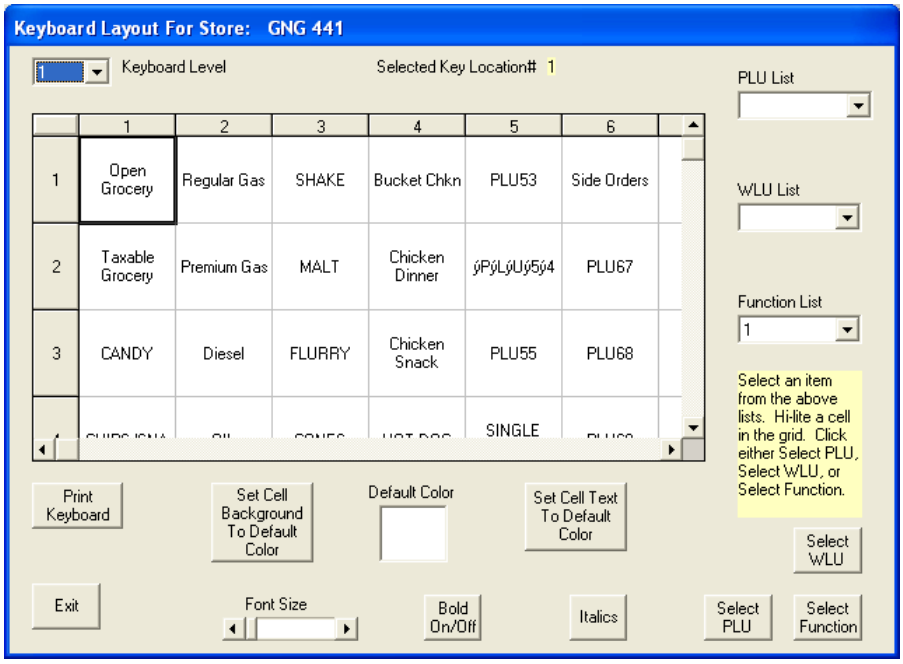
1. Choose the **Edit ECR Data** menu, then select **S-Mode** menu to open the S-Mode Programming menu. Select **Serial Port Parameters** to display the Serial Port Parameters programming screen for the selected store.



2. Select the port you wish to edit from the **Serial Port #** list box. Then select the device you are connecting to the port from the **Device** list box.
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit:
   - You can edit fields with numeric information by double clicking on the field, then entering new data.
   - You can edit fields with drop-down list boxes by opening the list box and selecting from the available options.
   - You can edit fields with check boxes by clicking on the field to add or remove a check.
4. Click **Exit** to save changes.

Keyboard Layout

1. Choose the **Edit ECR Data** menu, and then select **S-Mode** to open the S-Mode Programming menu. Select **Keyboard Layout** to display the Keyboard programming screen for the selected store.

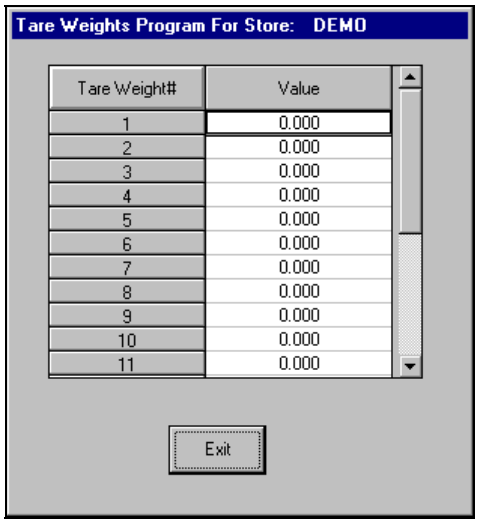


2. Select the keyboard level you wish to edit from the **Keyboard Level** list box.
3. Select the keyboard location you wish to edit by clicking on a cell to highlight it. Use the scroll bar on the bottom to view all of the columns (there are thirteen columns of keys on the keyboard.) Note that the keyboard location you select is displayed in the **Selected Key Location #** field at the top of the screen.
4. Assign a new PLU, WLU or function key to the location you have selected:
   - If you wish to assign a PLU to the selected location, open the **PLU List** drop down box and select the PLU you wish to assign, then click the **Select PLU** button at the bottom of the screen.
   - If you wish to assign a WLU to the selected location, open the **WLU List** drop down box and select the WLU you wish to assign, then click the **Select WLU** button at the bottom of the screen.
   - If you wish to assign a function to the selected location, open the **Function List** drop down box and select the function you wish to assign, then click the **Select Function** button at the bottom of the screen.
5. Click on the Default Color selection box to select the default color. Chose a new color from the colors displayed and click on OK to change the default color to the selected color.

6. Select a key location or group of locations and click on the Set Cell Background to Default Color icon to change the color of the cell to the default color. Click on the icon again to set the color back to the original color.
7. Select a key location or group of locations and click on the Set Cell Text to Default Color icon to set the text in the cell to the default color. Click on the icon again to set the color of the text back to the original color.
8. Select a key location or group of locations and click on the Bold On/Off or Italics On/Off to change the text to bold or italics. Click on the icon again to reverse the selection.
9. Select a key location or group of locations and use the Font Size scroll bar to select the text font size.
10. Click on the **Print Keyboard** icon to print a copy of the keyboard overlay. The keyboard will be printed on two pages that have to be cut and taped together, due to the size of the keyboard on the SPS-1000.
11. Click on Exit to return to the main menu and save your changes.

Tare Weights

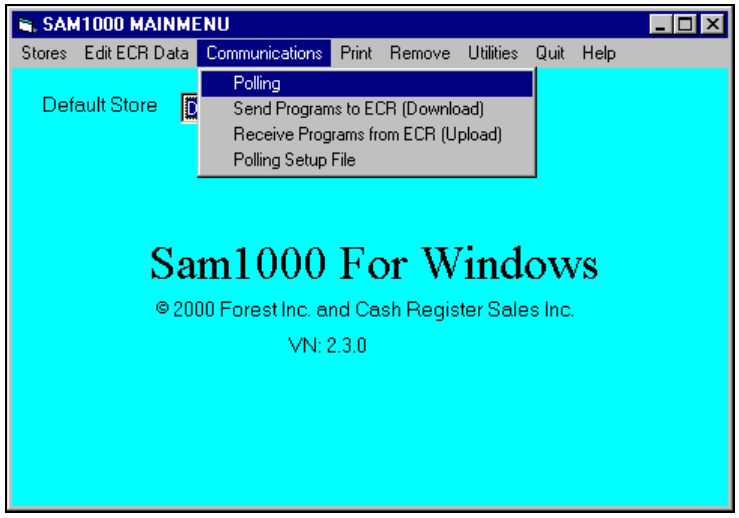
1. Choose the **Edit ECR Data** menu, then select **Misc. Programs** menu to open the S-Mode Programming menu. Select **Tare Weights** to display the Tare Weights programming screen for the selected store.



2. Use the scroll bar on the right to view the tare you wish to program
3. Edit fields as necessary by moving your mouse pointer to the field you wish to edit, double click on the field, then enter new data (using the decimal key when necessary).
4. Click **Exit** to save changes.

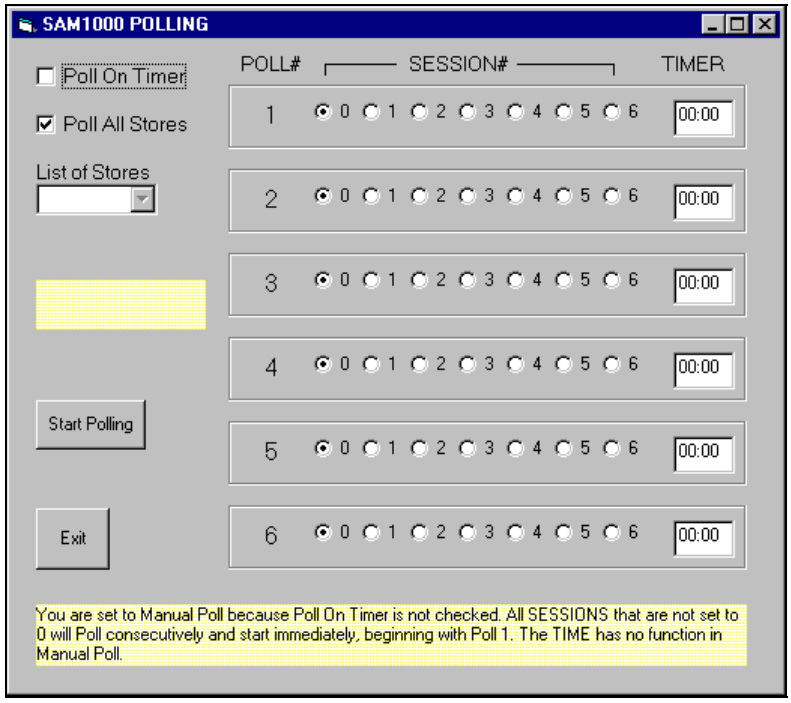
Communications

- Choose **Communications** from the Main menu to initiate communications with the Samsung SPS 1000.



Polling

1. Choose **Polling** from the *Communications* menu to connect to the store to poll reports. The *SAM1000 Polling* dialog box will display.



Note: Polling setup file must be completed first.

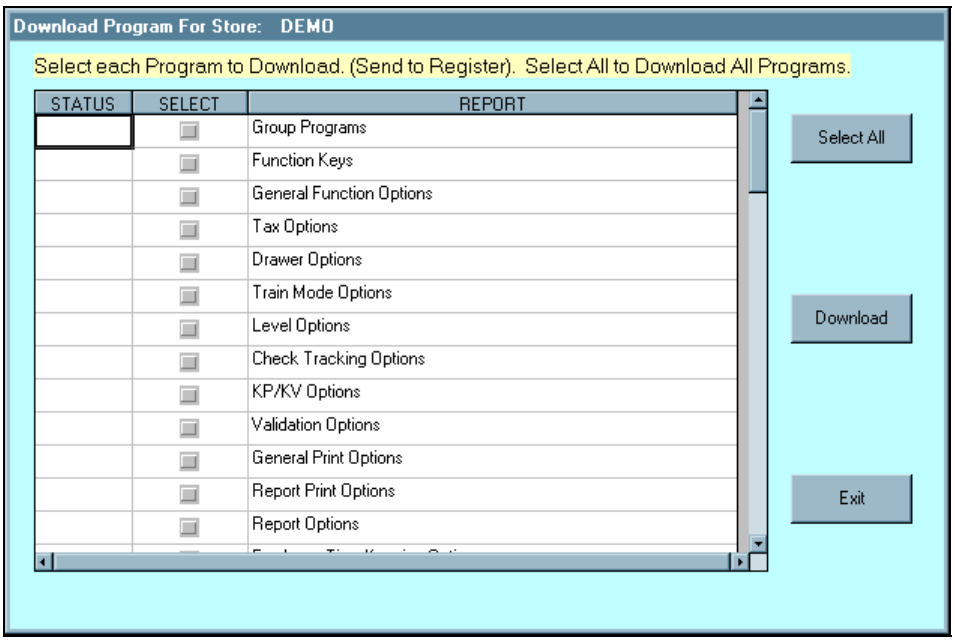
1. Complete the fields on the Polling Routine window according to the table below:

Field Name	Required /Optional	Description/Instructions
Poll On Timer	**O**	Select the Poll On Timer checkbox to start polling in consecutive order beginning with Poll 1 at the defined time. If not selected, polling is manual and will begin immediately.
Poll All Stores	**O**	Select the *Poll All Stores* checkbox to poll all stores. If not selected, enter an individual store to poll in the *List of Stores* field.
List of Stores	**O**	Select an individual store to poll if the *Poll All Stores* check box is not selected.
Session	**R**	Select the polling session, 1 - 6. Polling will proceed in consecutive order by session number.
Timer	**O**	Enter the military time the polling session is to begin.

3. Click the **Start Polling** button to begin polling; click **Exit** to exit the dialog.

Send Programs to ECR (Download)

1. Choose **Send Programs to ECR (Download)** from the **Communications** menu to send program information from the database of the working store, to the ECR at the store.



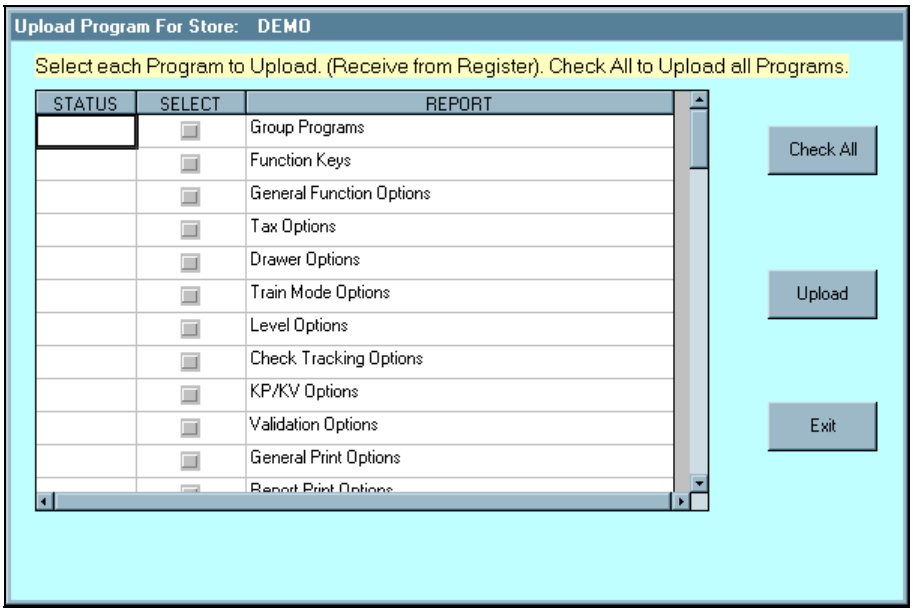
2. From the *Download Program* dialog box, first select *Memory Allocation* and click the **Download** button. Memory allocation must be sent before any other programs can be downloaded.

3. After memory allocation is successfully downloaded, select the program components you wish to send to the ECR. (Check **Check All** for all components except memory allocation.) A check mark means the item is selected. Use the scroll bar at the right to view all of the possible program components.

4. Click the **Download** button to initiate the download to the ECR; click **Exit** to exit the window. The *Status* field will monitor the progress of the download for each program component. *Pass* will display in green when the program is successfully downloaded; *Fail* will display in red if the download is unsuccessful.

Receive Programs from ECR (Upload)

1. Choose **Receive Programs from ECR (Upload)** from the *Communications* menu to receive program information from the ECR for the working store. When you execute this function, any program data that was on the hard disk previously will be overwritten by the new data.

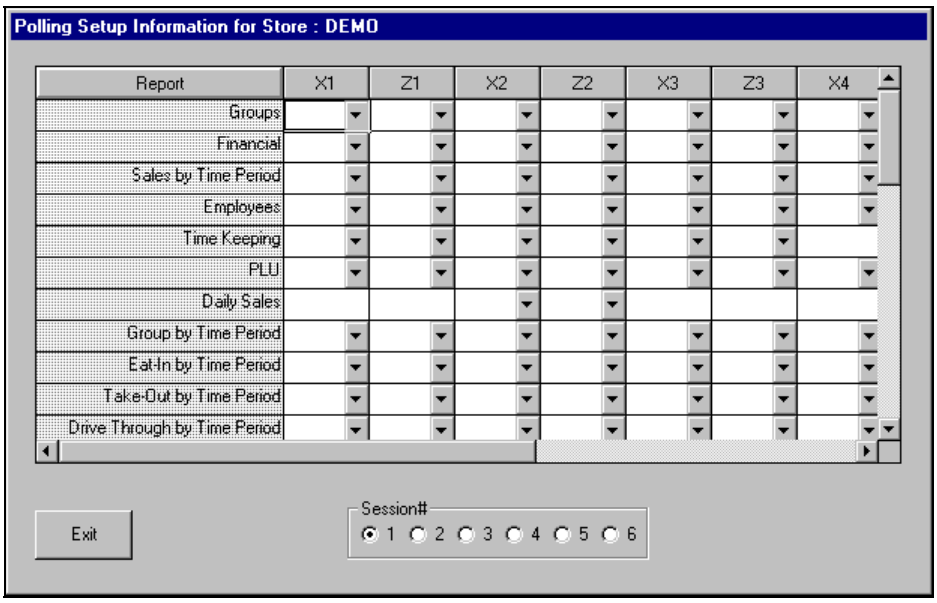


2. From the *Upload Program* dialog box, select the program components you wish to get from the ECR. (Check **Check All** for all components.) A check mark means the item is selected. Use the scroll bar at the right to view all of the possible program components.

3. Click the **Upload** button to initiate the download to the ECR; click **Exit** to exit the window. The *Status* field will monitor the progress of the upload for each program component. *Pass* will display in green when the program is successfully uploaded; *Fail* will display in red if the upload is unsuccessful.

Polling Setup File

1. Choose **Polling Setup File** from the *Communications* menu to define the reports to be taken when polling is initiated. You can set up reports for 6 polling sessions.

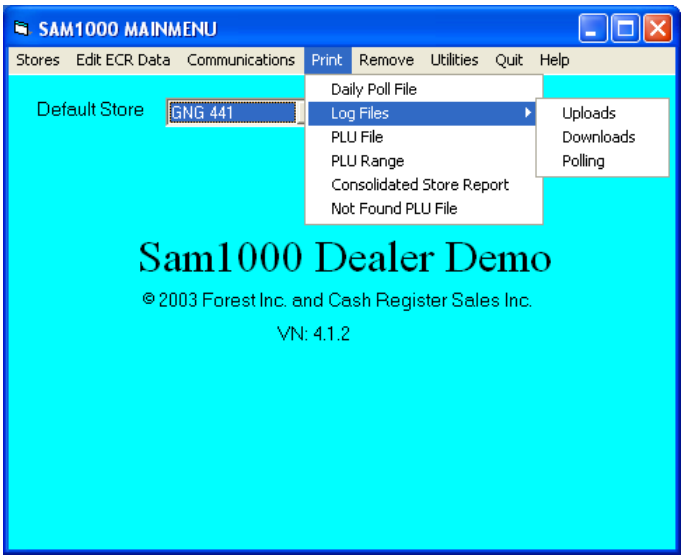


2. Click one of the **Session#** options buttons to display the reports for the session.
3. Find the report you wish to edit, if necessary use the scroll bar on the right. Then find the type of report (X1, Z2, etc.), if necessary use the scroll bar on the bottom. When you have located the field for the specific report you wish to edit, open the list box by clicking on the appropriate arrow.

   Select *Print* from the list box if you wish to print the report at the ECR when polling; select the check box under *No Print* if you do not wish to print the report at the ECR when polling. Select the blank position if you wish to remove a report from the session.
4. If necessary, click another one of the **Session#** options buttons to display the reports for the session.
5. Repeat step 3 for each session you are setting up.
6. Click **Exit** to save changes and return to the main menu.

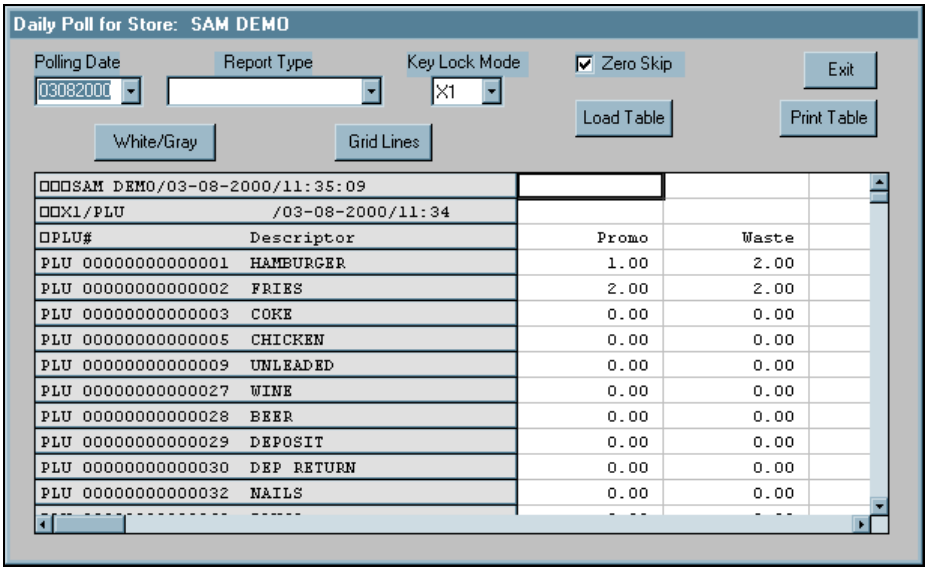
Print

- Choose **Print** from the Main menu to access the printing utilities described below.



Daily Poll File

1. Choose **Daily Poll File** from the *Print* menu to print out the poll file of a given day. The *Daily Poll* dialog box displays.



2. Complete the *Daily Poll* dialog box according to the table below:

Field Name	Required /Optional	Description/Instructions
Polling Date	**R**	Select the polling date from the drop-down list box.
Zero Skip	**O**	Select the Zero Skip check box if you wish totals with zero values skipped.
Report Type	**O**	Select the report type from the drop-down list box. If no report is chosen, all reports will be loaded.
Keylock Mode	**O**	Select the mode of the report. If nothing is selected, all key lock modes will be displayed.
Grid Lines	**O**	Click the *Grid Lines* button to print/display the selected report with or without grid lines
White/Gray	**O**	Click the *White/Gray* button to print/display the selected report with or without shaded fields.

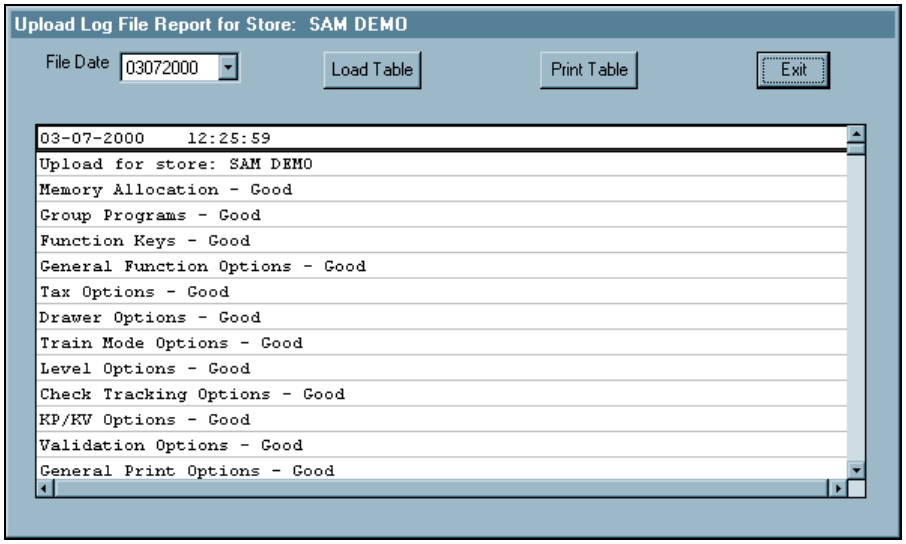
3. Click the **Load Table** button to view the selected report.
4. With the report in view, click the **Print Table** button to print the report.
5. Click **Exit** to return to the main menu.

Log Files

For error checking you can choose **Log File** from the *Print* menu to print out the upload, download or poll log file of a given day.

Uploads

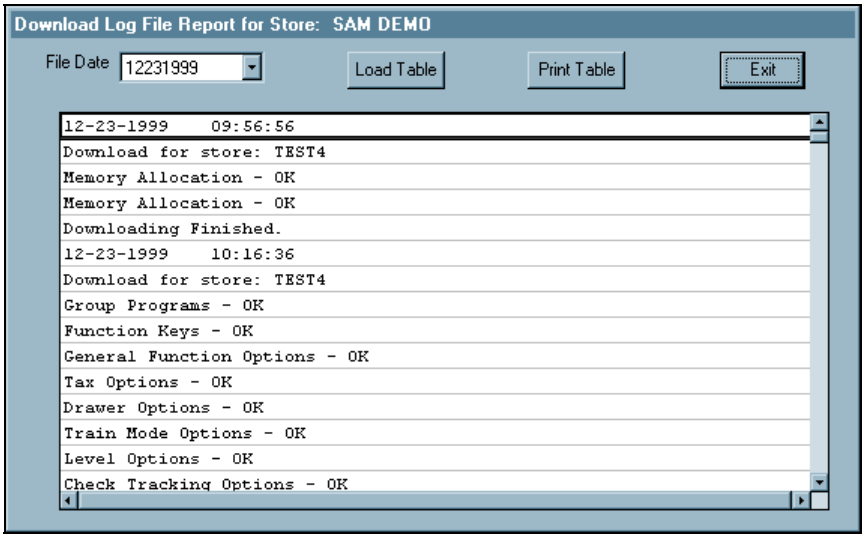
1. Choose **Log Files** from the *Print* menu, then choose **Uploads** to view and/or print the uploads of a given day. The *Upload Log File Report* dialog box for the selected store displays.



2. Type or select a date from the **File Date** list box.
3. Click the **Load Table** button to load the table for the selected file date.
4. Click the **Print Table** button to print the table.

Downloads

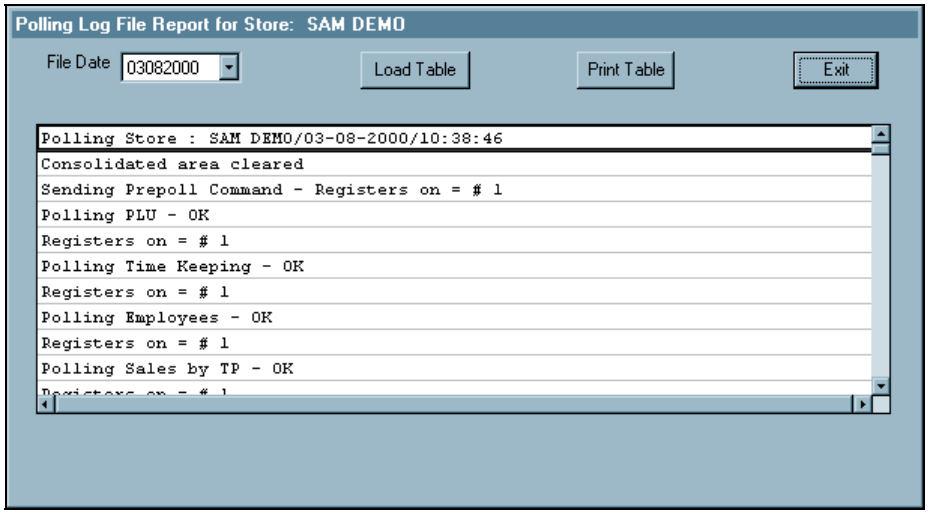
1. Choose **Log Files** from the *Print* menu, then choose **Downloads** to view and/or print the uploads of a given day. The *Download Log File Report* dialog box for the selected store displays.



2. Type or select a date from the **File Date** list box.
3. Click the **Load Table** button to load the table for the selected file date.
4. Click the **Print Table** button to print the table.

Polling

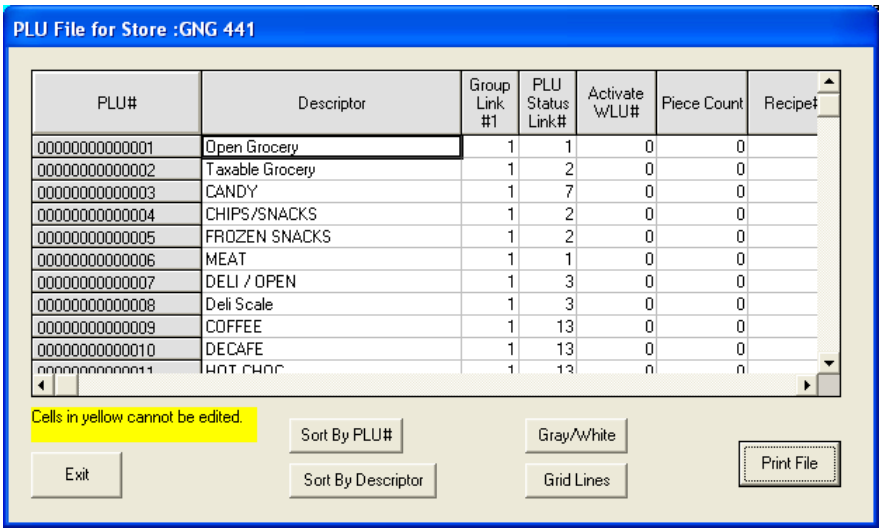
1. Choose **Log Files** from the *Print* menu, then choose **Polling** to view and/or print the polling activity of a given day. The *Polling Log File Report* dialog box for the selected store displays.



2. Select the polling date from the drop-down list box.
3. Click the **Load Table** button to view the selected file date log.
4. With the report in view, click the **Print Table** button to print the report.
5. Click **Exit** to return to the main menu.

PLU File

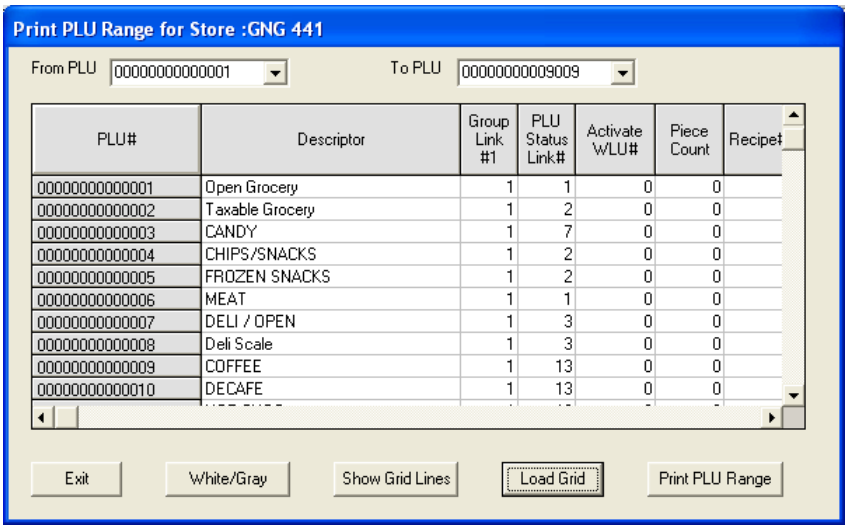
1. Choose **PLU File** from the *Print* menu to display and print out the PLU file of the working store. The *PLU File* dialog box displays.



2. Click the **Sort by PLU #** button to view the file sorted by PLU #; click the **Sort by Descriptor** button to view the file sorted alphabetically by descriptor.
3. Click the **Print File** button to print the file.
4. Click **Exit** to return to the main menu.

PLU Range

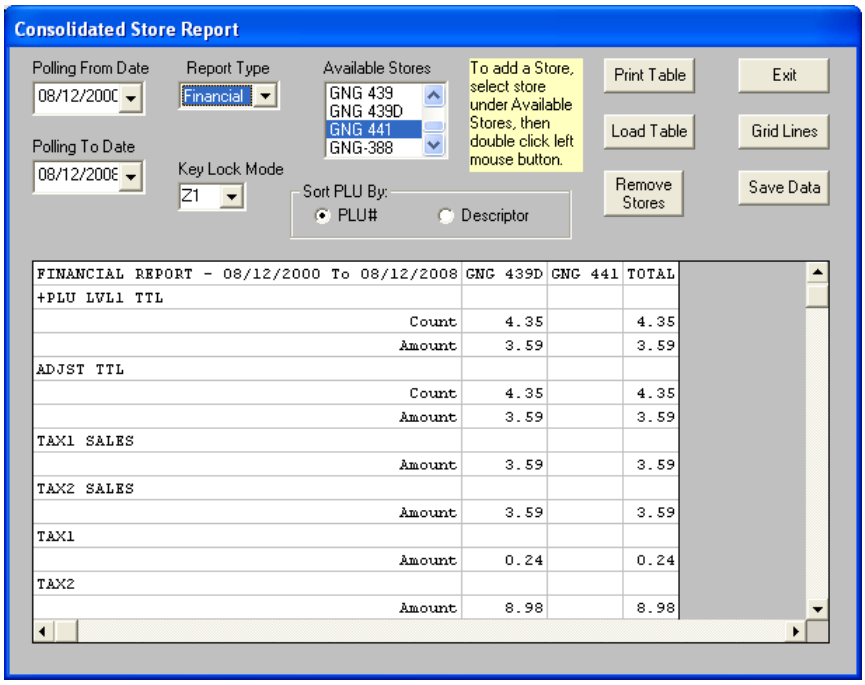
1. Choose **PLU Range** from the *Print* menu to display and print out a range of the PLU file of the working store. The *PLU Range* dialog box displays.



2. Select the first and last PLU in the range from the drop down list boxes.
3. Click on Load Grid to load the table with the selected range of PLUs.
4. Click on the White/Gray icon to toggle between white and gray background for the descriptors.
5. Click on the Show Grid Lines to toggle between displaying the grid lines on the table and showing no lines.
6. Click the **Print PLU Range** button to print the file.
7. Click **Exit** to return to the main menu.

Consolidated Store Report

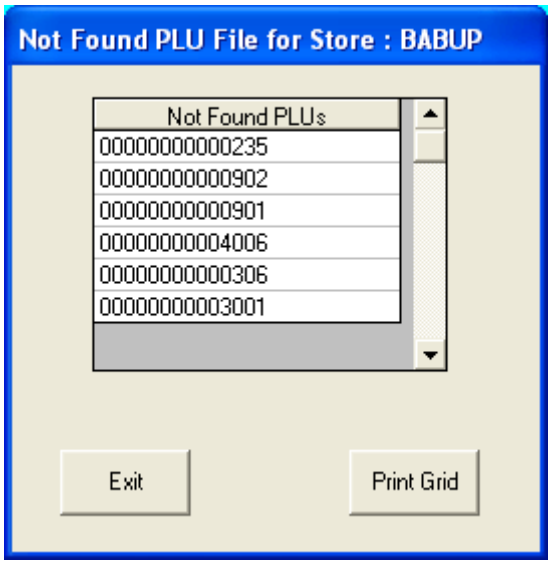
1. Choose **Consolidated Store Report** from the *Print* menu to display and print out the Consolidated financial, PLU and group reports for all stores. The *Consolidated Store Report* dialog box displays.



2. Chose the Polling Date from the drop down list for the reports you wish to consolidate.
3. Chose the Report Type (Financial, PLU, or Groups) from the drop down list for your consolidated report.
4. Click on Load Table to load the consolidated store report.
5. Click on the Grid Lines icon to toggle between displaying grid lines on the table and not.
6. Click on the White/Gray icon to toggle between showing the descriptors in white or gray.
7. Click on the Print Table icon to print the consolidated store report.
8. Click on Exit to return to the main menu.

Not Found PLU File

1. Choose **Not Found PLU File** from the *Print* menu to display and print out the Not Found PLUs for the selected store. The *Not Found PLU File* dialog box displays.

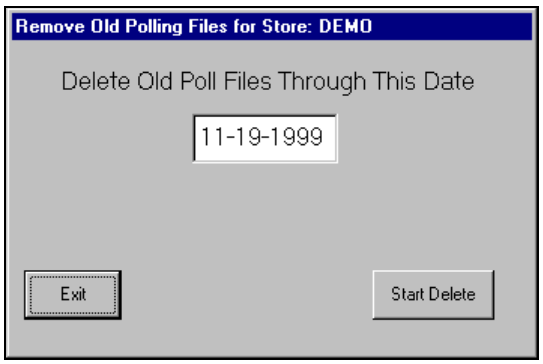


2. Click **Print Grid** to Print the Not Found PLUs.
3. Chose **Exit** to return to the main menu.

Remove

Old Poll Files

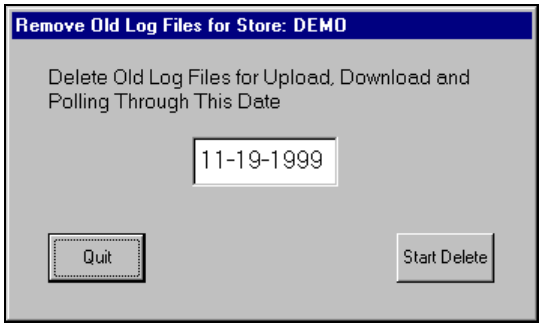
1. Choose **Remove Old Poll Files** from the *Utilities* menu to delete unwanted poll files. The *Remove Old Polling Files* dialog box displays.



2. Enter the date through which you want old poll files deleted. The message "FINISHED" will display when completed.
3. Click **Exit** to return to the main menu.

Log Files (Upload, Download, Poll)

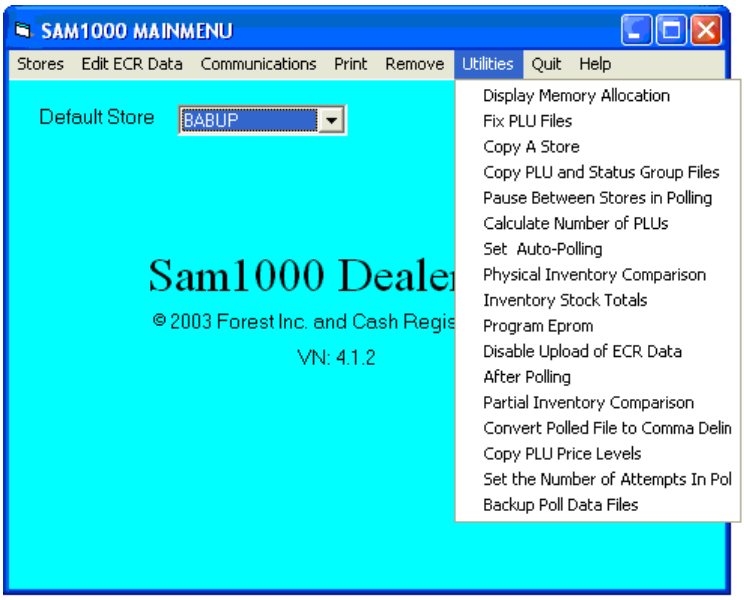
1. Choose **Remove Old Poll Log Files** from the *Utilities* menu to delete unwanted poll log files. The *Remove Old Polling Log Files* dialog box will display.



2. Enter the date through which you want old poll log files deleted. The message "FINISHED" will display when completed.
3. Click **Exit** to return to the main menu.

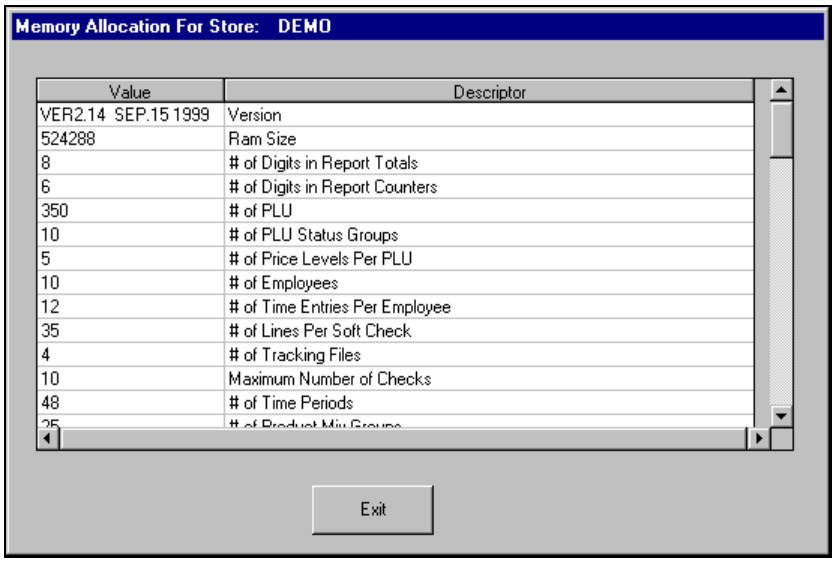
Utilities

- Choose **Utilities** from the Main menu to access the utilities described below.



Display Memory Allocation

1. Choose **Display Memory Allocation** from the *Utilities* menu to display the memory allocation of the store's ECR.



2. Click **Exit** to return to the main menu.

Re-Index PLU Misc Files

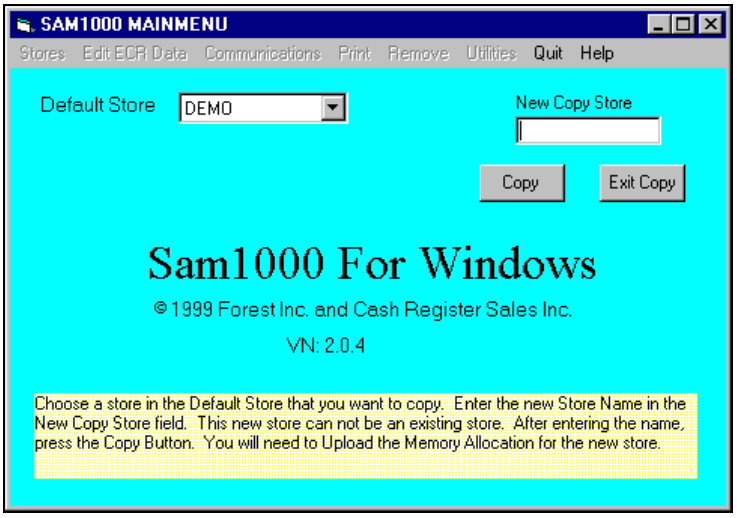
This function reindexes the PLU file when there are deletions or changes.

- Choose **Re-Index PLU Misc Files** from the *Utilities* menu.

Copy a Store

Use the Copy a Store function to create a new store with the identical attributes of an existing store.

1. Choose **Copy a Store** from the *Utilities* menu.

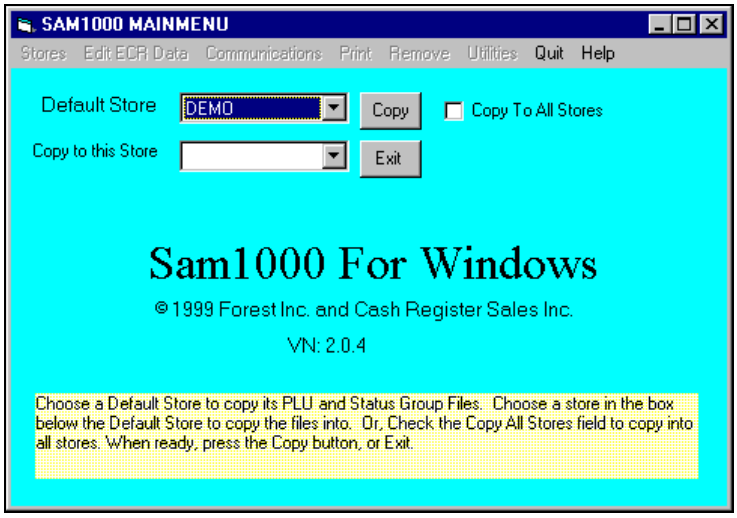


2. Select the store that you wish to copy from by clicking the Default Store field drop-down list box.
3. Enter the name of the store you wish to create in the *New Copy Store* field.
4. Click the **Copy** button to create new store will identical attributes as the default store.
5. Click the **Exit Copy** button to return to the main menu.

Copy PLU and Status Group Files

Use the Copy a PLU File function to copy a PLU file to an individual store or all stores.

1. Choose **Copy a PLU File** from the *Utilities* menu.

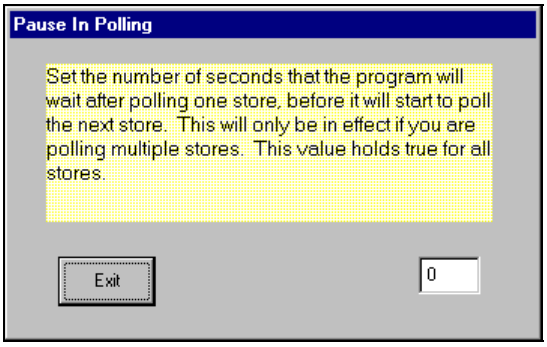


2. Select the store that you wish to copy the PLU file from by clicking the Default Store field drop-down list box.
3. Select the name of the store you wish the PLU file copied to in the *Copy PLU File to this Store* field, or click the *Copy To All Stores* check box.
4. Click the **Copy** button to copy the PLU file to the selected store or all stores.
5. Click the **Exit** button to return to the main menu.

Pause Between Stores in Polling

Here you can set the number of seconds that the program will wait after polling one store before it will start to poll the next store. This will only be in effect if you are polling multiple stores. This value holds true for all stores.

1. Choose **Pause Between Stores In Poll** from the *Utilities* menu. The *Pause In Polling* dialog box displays.

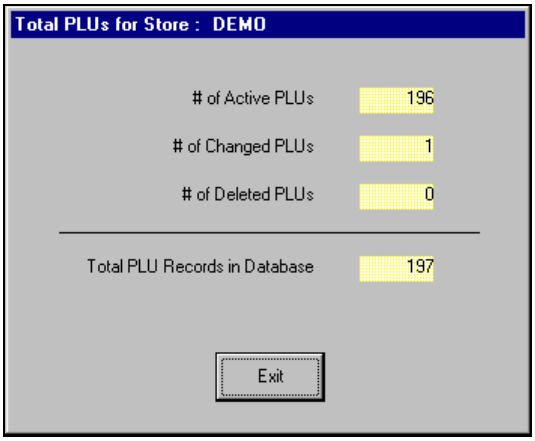


2. Enter the number of seconds you wish to pause in the field provided.
3. Click the **Exit** button to save changes and return to the main menu.

Calculate Number of PLUs

You can view the total number of PLUs in the database. The number of changed and deleted PLUs are tracked.

1. Choose **Calculate Number of PLUs** from the *Utilities* menu. The *Total PLUs* dialog box for the selected store displays.

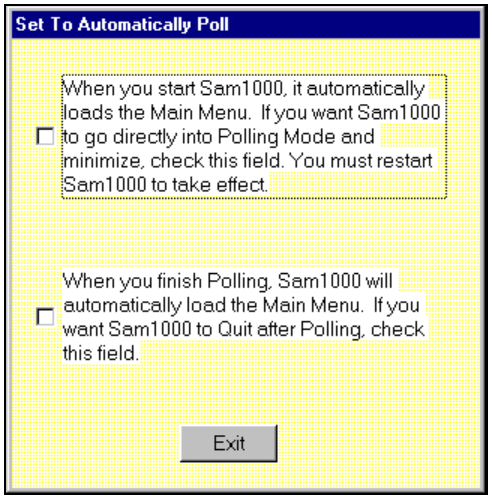


2. Click the **Exit** button to return to the main menu.

Set Auto-Polling

You can set *Sam1000* to automatically go into polling mode when the program is started. You can also set *Sam1000* to automatically close when polling is completed.

1. Choose **Set to Automatically Poll** from the *Utilities* menu. The *Set to Automatically Poll* dialog box displays.



2. Select the first check box if you wish to automatically poll when *Sam1000* is executed. Select the second check box if you wish to close *Sam1000* automatically when polling is completed.
3. Click **Exit**.
4. Close *Sam1000* and then restart it for changes to take effect.

Physical Inventory Comparison
Partial Inventory Comparison

These utilities will compare the inventory quantity of the PLU file with that of an external file. The external file can be one that was created by a hand scanner that was used to take a physical inventory count. This file could also be created by an accounting program that has the capabilities to export an ASCII text file.

The Partial Inventory Comparison compares only PLUs where the external file contains data. The Physical Inventory Comparison compares all PLUs.

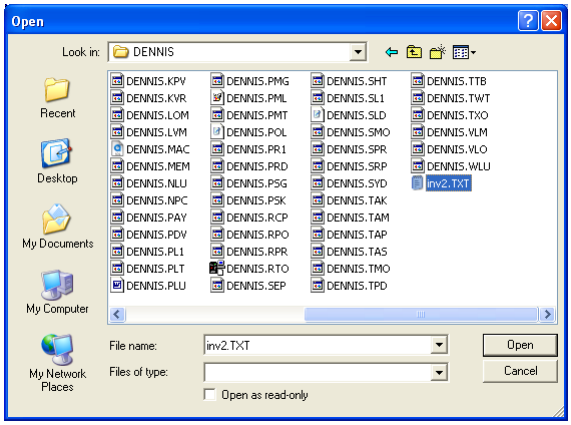
Requirements

In order to compare files, the external file must have the following characteristics:

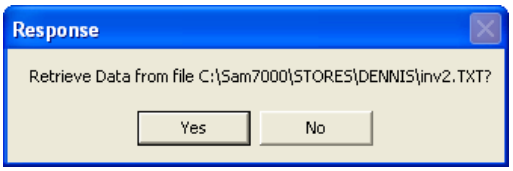
- The name of the file must be COLLECT.DAT
- The file COLLECT.DAT must be in the same directory of the Store name. If you collect data for the store KFC , then the file COLLECT.DAT must be in the path \SAM1000\STORES\KFC\COLLECT.DAT .
- The file must be a comma delimited ASCII text file.
- A PLU must be on its own line.
- Every Line must end with a carriage return and line feed.
- The first field of the line must be the PLU number, followed by a comma.
- The second field of the line must be the quantity.
- You can have additional fields on the line, however, the comparison program only uses the first 2 fields.

Inventory Comparison Procedure

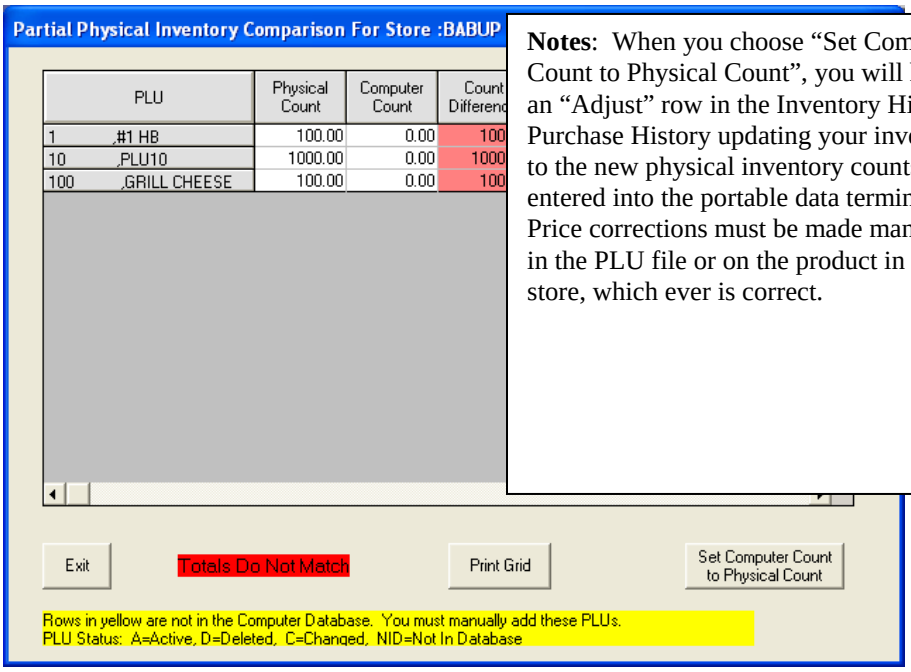
1. Choose *Partial Physical Inventory Comparison* or *Physical Inventory Comparison* from the Utilities menu.
2. Click the **Load Scanned Data File** command button.



3. From the Open dialog, locate the folder and file where you located the inventory record text file. Click **Open**.
4. The Response Dialog displays. Click **Yes**.



5. Click **Yes**. The scanned information will now display.



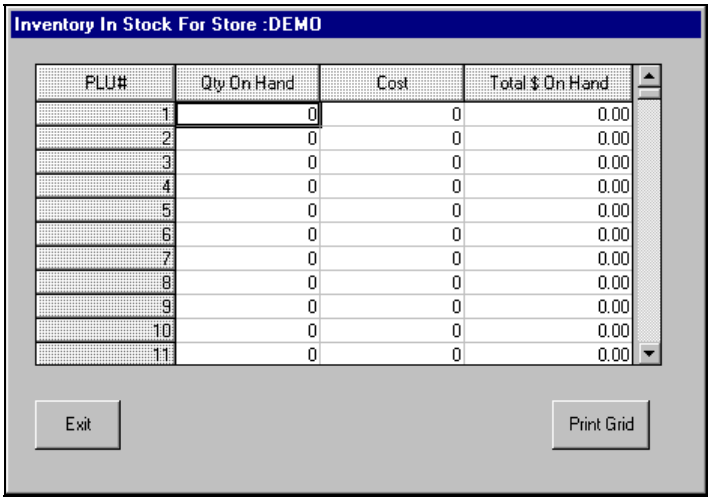
Notes: When you choose "Set Computer Count to Physical Count", you will have an "Adjust" row in the Inventory History, Purchase History updating your inventory to the new physical inventory counts you entered into the portable data terminal. Price corrections must be made manually in the PLU file or on the product in the store, which ever is correct.

6. Click the **Print Grid Button** to print the spreadsheet to your default printer.

Inventory Stock Totals

This utility will calculate the total inventory of the Store PLU file.

1. Choose **Inventory Stock Totals** from the *Utilities* menu. The **Inventory In Stock** dialog box displays.

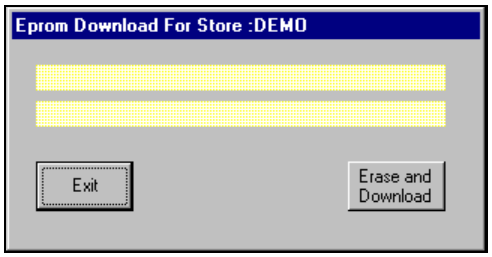


2. Click the **Print Grid Button** to print the spreadsheet to your default printer.

Program EPROM

This utility allows you to download a new EPROM to a SPS 1000.

1. Rename the EPROM file to L&G.bin.
2. Copy L&G.bin to the SAM1000 directory.
3. Choose PROGRAM EPROM from the Utilites menu. The EPROM DOWNLOAD dialog box displays.

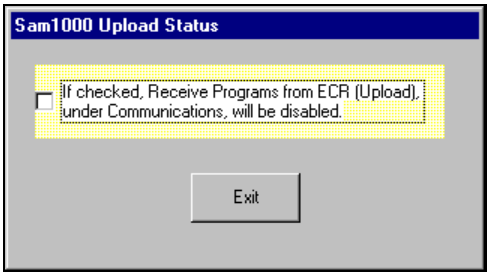


4. Click **Erase and Download**.

Disable Upload of ECR Data

You can protect the integrity of you the register program stored by SAM 1000 by disabling the Receive Programs from ECR (upload) function on the Communications menu.

1. Choose **Disable Upload of ECR Data** from the *Utilities* menu. The **Sam 1000 Upload Status** dialog box displays.

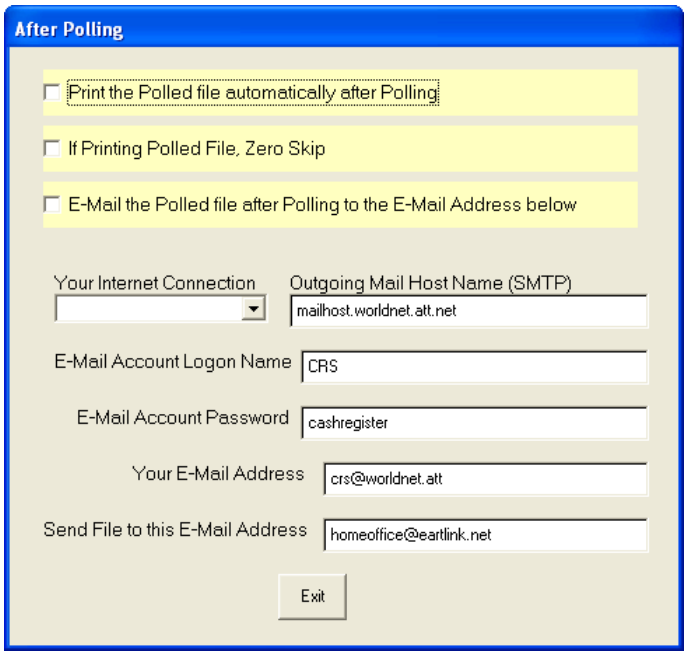


2. Click the check box to disable uploads.
3. Click **Exit**.

After Polling

You can program Sam 1000 to send your polled files to the printer immediately after polling, or have the polled files sent automatically by e-mail to a preselected e-mail address.

1. Choose **After Polling** from the *Utilities* menu. The *After Polling* dialog box for the selected store displays.

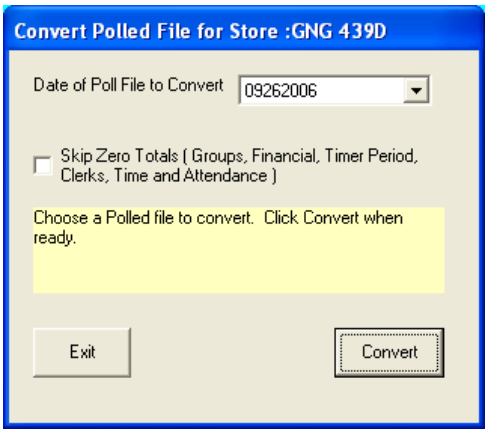


2. Click on the check boxes to select Printing or E-mailing the polled file after polling.
3. Select Your Internet Connection from the drop down list. All connections set up in your PC should display for you to chose from.
4. Type in your Outgoing Mail Host Name (SMTP) in the appropriate location. If you have trouble locating the host name, please contact your e-mail provider. The host names vary greatly depending on the provider.
5. Type in your E-mail Account Logon Name.
6. Type in your E-mail Account Password.
7. Type in your E-mail Address.
8. Type in the address you wish to send the polled reports to in the text box labled Send File to this E-mail Address.
9. Click on Exit to return to the main menu and save your changes.

Convert Polled File to Comma Delimited

Here you can create a date stamped CSV file that is can be easily used by common programs such as *Microsoft Access*© or *Excel*©.

1. Choose **Convert Polled File to Comma Delimited** from the *Utilities* menu. The *Convert Polled File for Store*: . . dialog box displays.



2. Select the date of the poll file you wish to convert from the drop down box, then click **Convert**.
3. The message box will display the name of the converted file. Click **Exit**.

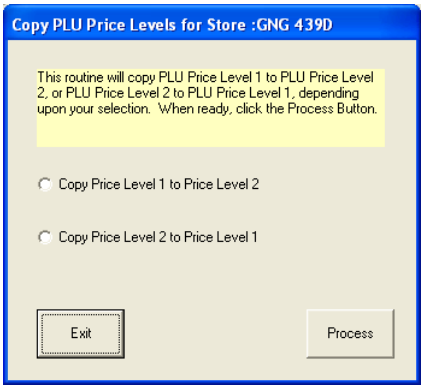
Example of Converted Poll File

```
GNG 244/02-11-2004/14:54:32
Z1/FINANCIAL       /02-11-2004/14:54
              COUNT     TOTAL
PLU TTL       75.68     80.66
PLU TTL           0         0
ADJST TTI     75.68     80.66
NONTAX            8     11.91
TAX1 SALI         0     42.75
TAX2 SALI         0        25
TAX3 SALI         0         1
TAX1              0      3.26
TAX2              0      1.78
NET SALE         20      85.7
GROSS S/          0      85.7
CASH SAL         21      85.7
NOSALE/N          0       123
CASH-IN-I         0      85.7
DRWR TTI          0      85.7
CHECKS F          1         0
SERVICE           1         0
REPORT END
Z1/PLU             /02-11-2004/14:54
              COUNT     TOTAL
PLU 00000     20.68        25
PLU 00000         1         1
PLU 00000        17     12.25
PLU 00000         7       5.5
PLU 00000        12        18
PLU 00000         1         1
PLU 00000         1       3.5
PLU 00000         1         0
PLU 00000         3       7.5
PLU 00070        12      6.91
REPORT END
SESSION END
```

Copy PLU Price Levels

You can copy PLU prices from level 1 to level 2, or from level 2 to level 1.

1. Choose **COPY PLU Price Levels** from the *Utilities* menu. The dialog box for the selected store displays.

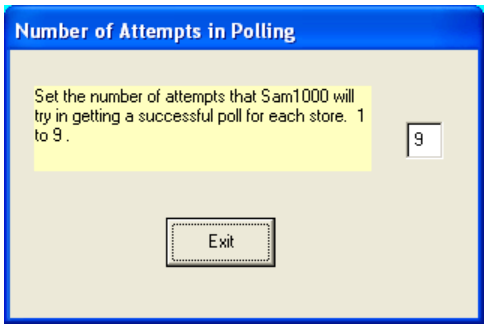


2. Select an option and click **Process** to copy the prices. Click **Exit** to return to the main menu.

Set the Number of Attempts in Polling

You can set the number of attempts that *SAM7000* will attempt to complete a successful poll for each store.

1. Choose **Set Number of Attempts in Polling** from the *Utilities* menu. The dialog box for the selected store displays.

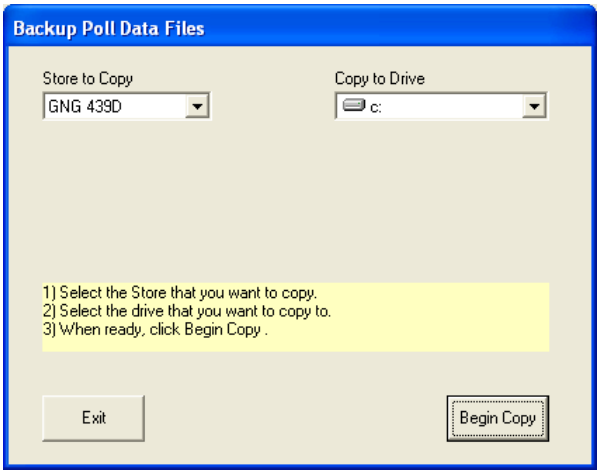


2. Enter a value of 1 to 9. Click **Exit** to return to the main menu.

Backup Poll Data Files

This utility allows you to back up poll files to another drive.

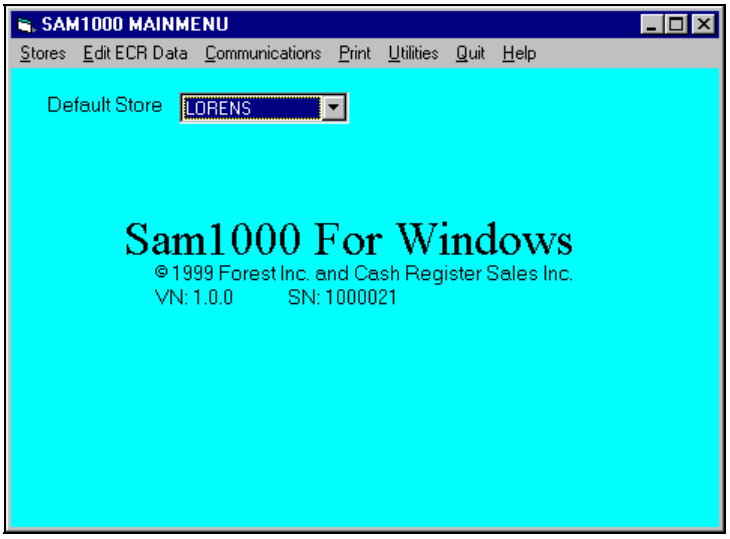
1. Choose **Backup Poll Data Files** from the *Utilities* menu. The dialog box for the selected store displays.



2. Select a store to copy and a copy to drive from the appropriate list boxes. Click **Begin Copy**.
3. The dialog will notify you when the copy is complete. Click **Exit** to return to the main menu.

Quit

- Choose **Quit** from the Main menu to exit *SAM1000 For Windows*.



Appendices

Structure of Stores

When you create a new store, you actually create a new sub-directory under the directory *SAM1000 For Windows* for the store. If you create a store named **BIGBOYS**, the following will be created:

1. A directory named `\STORES\BIGBOYS`
   This directory holds all the programming files for this store.
2. A directory named `\STORES\BIGBOYS\POLL`
   This directory holds all the daily polling files for this store.

File Definitions

6.00	Category	Extension
6.01	GROUPS	GRU
6.02	FUNCTION KEYS	FKY
6.03	GENERAL FUNCTION	GNO
6.04	TAX OPTIONS	TXO
6.05	CASH DRAWER OPTIONS	CDO
6.06	TRAINING MODE	TMO
6.07	LEVEL/MODIFIER	LVM
6.08	TRACKING FILE	CTO
6.09	KP/KV OPTIONS	KPV
6.10	VALIDATION/SUBTOTAL PRINT	VLO
6.11	GENERAL PRINTING	GPO
6.12	REPORT PRINTING	RPO
6.13	REPORT PRINTING	RTO
6.14	TIMEKEEPING	ETK
6.15	S-MODE SYSTEM OPTIONS	SMO
6.16	KEYBOARD LAYOUT	KLP
6.17	NLU	NLU
6.18	KP TIME PERIOD	KPT
6.19	SYSTEM DESCRIPTORS	SYD
6.20	ERROR MESSAGES	ERR
6.21	FINANCIAL REPORT MESSAGES	FIM
6.22	EMPLOYEE REPORT MESSAGES	EPR
6.23	LOGO MESSAGE	LOM
6.24	VALIDATION MESSAGE	VLM
6.25	CHECK ENDORSEMENT MEESAGE	CEM
6.26	GUEST CHECK MESSAGE	GCM
6.27	MACRO	MAC
6.28	STRING REPORT	SRP
6.29	TAX TABLES	TTB
6.30	NON-PLU PROGRAMMING	NPC
6.31		
6.32	AUTHORITY LEVEL	ALP
6.33	JOBCODE	JCD
6.34	PAYRATE	PAY
6.35	TARE WEIGHT	TWT

6.00	Category	Extension
6.36	EJ & DETAIL PRINTING OPTIONS	EJD
6.37	TIME ACTIVATED KEYBOARD LEVEL	TAK
6.38	TIME ACTIVATED PRICE LEVEL	TAP
6.39	TIME ACTIVATED MACROS	TAM
6.40	TIME ACTIVATED STRING REPORT	TAS
6.41	CUSTOM REPORT	CSR
6.42	SHIFT TIME	SHT
6.43	PRINTER DRIVER	PDV
6.44	SERIAL PORT PARAMETERS	SEP
6.45	SYSTEM PRINTER CONFIGURATION	SPR
6.46	KP ROUTING	KPR
6.47	KV ROUTING	KVR
6.48	RECEIPT PRINTER ROUTING	RPR
6.49	DETAIL PRINTER ROUTING	DPR
6.50	EDIT FINANCIAL REPORT	EFR
6.51	EDIT EMPLOYEE REPORT	EER
6.52		
6.53		
6.54		
6.55		
6.56		
6.57	WLU	WLU
6.58	PRODUCT MIX GROUPS	PMG
6.59	PRODUCT MIX TIME	PMT
6.60	RECIPE	RCP
6.61	INGREDIENT	ING
6.62		
6.63	EMPLOYEE	EPY
6.64	TIME PERIOD	TPD
6.65	PLU STATUS GROUP	PSG
6.66		
6.67	PLU	PLU
6.68	PLU MIN LEVEL	PML
6.69	GROUPS BY EMPLOYEE	GBE
6.70		
6.71		
6.72	CHECK TABLE FILE 1	CT1
6.73	CHECK TABLE FILE 2	CT2

6.00	Category	Extension
6.74	CHECK TABLE FILE 3	CT3
6.75	CHECK TABLE FILE 4	CT4
6.76		
6.77		
6.78		
6.79		
6.80		
6.81	PLU STOCK	PSK
6.82		
6.83		
6.84	ELECTRONIC JOURNAL	EJR
6.85	MEMORY ALLOCATION	MEM
6.86	DATE/TIME	

Structure of Polling Files

When you poll, the session will always create a poll file with the date as the name of the file. For example, if you poll on 11-02-1999, for store BIGBOYS, the session will create a file on the hard disk named \SAM1000\BIGBOYS\POLL\11021999.POL. If you poll this store a second time on the same day, it will append the data to the end of the existing file.

The structure of the poll file is as follows:

- All data is ASCII.
- A polling session for a store is everything that is done from the moment the PC calls the store, up to the hang-up with the store.
- The first line saved to disk of any polling session is:

  □□□BIGBOYS/11-02-1999/20:12:39

- The first three characters on the line is ASCII character decimal 16, a right arrow. This designates that this is the start of the polling session. The name of the store follows, a forward slash, the date, a forward slash, and the time in hours, minutes and seconds.
- The last line of the entire session will be saved as:

  SESSION END□□□

- The last three characters of the line is ASCII character decimal 17, a left arrow. This designates that this is the end of the polling session.
- If you do not define any elements in your polling session, you would have a polled file that would look something like this:

  □□□BIGBOYS/11-02-1999/17:06:45
  SESSION END□□□

- When you define your polling session by choosing elements in the store's session data, the polled data will be save below line 1:

```
???BIGBOYS/11-02-1999/17:06:45
??X1/FINANCIAL        /11-02-1999/17:07
?FINANCIAL                                    Count        Total
+PLU LVL1 TTL                                 12.00       102.24
-PLU LVL1 TTL                                  0.00         0.00
+PLU LVL2 TTL                                  0.00         0.00
-PLU LVL2 TTL                                  0.00         0.00
+PLU LVL3 TTL                                  0.00         0.00
REPORT END??
SESSION END???
```

- The time and date on the first line of the session is the time and date that the session started.

- The second line in the file is the element that was polled. The line has a time and date stamp. This stamp is when the ECR was actually pre-polled. This stamp can be different than the header stamp (line 1). If the software finished pre-poll and the session ended abruptly, the next time that you poll (possibly a day later) you will read the older data sitting in the prepoll area.

Structure of Line 2

Position	
1-2	two ASCII characters, decimal 16, a right arrow
53-64	the key mode. Always 2 characters
5	the report type
53-64	/ (forward slash) used as a separator
1	date of prepoll taken
53-65	/ (forward slash) used as a separator
53-66	Time of prepoll

Structure of Line 3

Line 3 is the report column header.

Position	
1	ASCII character, decimal 16, a right arrow
53-64	Identifier. This is usually the report type, as in line 2. However, for reports such as clerks, groups by time period, etc, this will be the element of the report. Example: Employee#1, Employee#2.
40 -	Balance of the line is column headers for count and totals.

Structure of Line 4

Position	
53-64	Line identifier for Count and totals.
53-65	Column 1 count (if PLU, then Waste)
53-66	Column 2 total (if PLU, then Promo)
66-77, 79-90, 92-103, 105-116, 118-129, 131-142, 144-155, 157-168, 170-181, 183-194	All column totals. PLU by price levels use all these columns. Other reports do not.

Structure of Last Line

The last line saved for every report is :

```
REPORT END??
```

This line ends with 2 left arrow characters.

All data for the given element will appear between the 2 lines with 2 arrows. Data lines do not start with any arrows.

Sam1000 File Structures for PLU Information

There are 4 separates files that pertain to PLU information.

<Storename> .PLU

PLU data from the SPS1000

FIELD	DESCRIPTION	START POS	LENGTH	TYPE
1	Status	1	1	Alpha
2	PLU#	2	14	Numeric
3	Descriptor	16	16	Alpha/Numeric
4	Link Group 1	32	2	Numeric
5	Link Status Group	34	4	Numeric
6	WLU	38	3	Numeric
7	Piece Count	41	3	Numeric
8	Recipe Table#	44	3	Numeric
9	Inactive Option	47	1	Checkmark
10	Preset Option	48	1	Checkmark
11	Allow Price Override	49	1	Checkmark
12	Price/HALO 1	50	8	Numeric
13	Price Level 1	58	2	Numeric
14	Price/HALO 2	60	8	Numeric
15	Price Level 2	68	2	Numeric
16	Price/HALO 3	70	8	Numeric
17	Price Level 3	78	2	Numeric
18	Price/HALO 4	80	8	Numeric
19	Price Level 4	88	2	Numeric
20	Price/HALO 5	90	8	Numeric
21	Price Level 5	98	2	Numeric
	cr/lf	100	2	

<Storename> .PML

PLU Minimum Level data from the SPS1000

FIELD	DESCRIPTION	START POS	LENGTH	TYPE
1	Status	1	1	Alpha
2	PLU#	2	14	Numeric
3	Count	16	8	Numeric
4	CR/LF	24	2	

<Storename> .PSK

PLU Stocking Status data from the SPS1000

FIELD	DESCRIPTION	START POS	LENGTH	TYPE
1	Status	1	1	Alpha
2	PLU#	2	14	Numeric
3	Count	16	8	Numeric
4	CR/LF	24	2	

<Storename> .PLR

Misc. PLU information that the SPS1000 does not use. This is a reference file that the end user could use for misc. information. Also, 3rd party software that interfaces with Sam1000 might benefit from these fields.

FIELD	DESCRIPTION	START POS	LENGTH	TYPE
1	Status	1	1	Alpha
2	PLU#	2	14	Numeric
3	Alternate PLU#	16	10	Numeric
4	Full Description	26	30	Alpha/numeric
5	UOM	56	2	Alpha/numeric
6	Vendor ID	58	6	Alpha/numeric
7	Vender Ref PLU#	64	15	Alpha/numeric
8	Max On Hand	79	8	Numeric
9	Cost	87	8	Numeric
10	CR/LF	95	2	

All files are ASCII text. All records in a file are fixed length strings. Every record ends with a CR/LF.

In Basic, you can use the Line Input# command to read a record.

The first character of a record is the Status. The Status must be a character 'A' ,'C', or 'D' .

'A' = active. This record can be edited.
'C' = changed. This record has been changed in edit.
'D' = deleted. This record has been deleted in edit.

If any file is edited outside of SAM1000, the edit routine must keep in mind this first character. If you change any record, 'C' must be the first character on the line. Likewise for deleting a record, a 'D' must be the first. This must be done in order for SAM1000 to download the proper records to the SPS1000. If the .PLR file is changed, you need to re-index the file in SAM1000/Utilities.

All numeric values are stored as whole numbers. In PLU Price/HALO, $12.34 would be stored as '1234'. No decimal point is stored in the record.

All store files are stored under the following path:

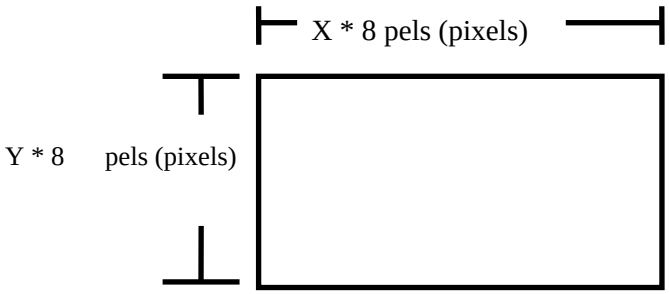
\SAM1000\STORES\<*STORENAME*>\<*STORENAME*>.<*EXTENSION*>

Logo Creation Instructions

This procedure states how to save bit map files made using the Microsoft Paint software, and then how to down load them to the SPS-1000 register.

Bit Map File Specification

1. Maximum file size to be downloaded to the SPS-1000 is 12288 bytes.
2. Image dimensional definition:



3. Possible values of X and Y and the product of X and Y:
   1<= X <= 255
   1<= Y <= 48
   HOWEVER, the product of X and Y must be
   1<= X*Y <=1536
4. A good size to use is 432 pixels wide BY 144 pixels high.

Create Bitmap Image

To design and save the bit map image in Microsoft Paint software:

1. Set Bit Map size
    a) Select IMAGE
    b) Select ATTRIBUTES
    c) Set Units = PELS
    d) Set Colors = Black and White
    e) Enter the width and height of the bit map. Values must be in multiples of 8 (per above Bit Map file specifications).
2. Design the Bit Map Image.
3. Prior to saving the Bit Map Image
    a) Select IMAGE
    b) Select INVERT COLORS
    c) Then
    d) Select IMAGE
    e) Select FLIP/ROTATE
    f) Select ROTATE BY ANGLE
    g) Select 90 DEGREES repeat 2 more times to obtain a rotation of 270 degrees in total.
4. Save the Bit Map Image.

Example:

Image to Print, (created in Paint Brush)	Image should be saved as
	

Converting the Bit Map Image for the SPS-1000

1. Run CONV_BMP.EXE.
2. Enter the filename without extension (.bmp).
3. Output filename is the same and extension is DAT.

Prepare Downloading the Bit Map Image on the SPS-1000

1. In the S-Mode MEMORY ALLOCATION, set to Y the STORE BITMAP item.
2. In the S-Mode SERIAL PORT DEVICE SELECTION, set the port where PC is connected to POLLING.

Downloading the Bit Map Image to the SPS-1000 with SAM1000

1. Rename the converted DAT file to <storename>.bmi
2. Place the file in the appropriate store directory.
3. Send the BIT MAP LOGO from the SEND TO ECR screen.

Downloading the Bit Map Image to the SPS-1000 with the Samsung Utility

1. Place the file in the same directory as the program “spsdown.exe”.
2. Execute the spsdown.exe program with the following switches: spsdown <INFO>

```
<INFO> Switchs
Sxxxxxx     : Where xxxxxx is a STORE #. Default is 000000.
Rxx         : Where xx is a REGISTER #. Default is 1.
Cx          : Where x is a com port no. 1 for port1 and 2 for
port2.
              Default is port1.
Nfilename   : Where filename is the BITMAP filename to download.
```

Example #1: to send the BITMAP to STORE #000000, REGISTER#1 PORT on PC is COM1 and converted file is DQ.DAT the command would be : **spsdown NDQ.DAT**

Example #2: to send the BITMAP to STORE #0000127, REGISTER#2 PORT on PC is COM2 and converted file is DQ.DAT the command would be : **spsdown S000127 R02 C2 NDQ.DAT**

Downloading the Bit Map Image to the Printer

1. In the S-Mode SERIAL PORT DEVICE SELECTION, set the port where printer is connected to PRINTER.
2. Select BITMAP FILE DOWNLOAD in P-mode.
3. Select the port number which the printer is connected.

Printing the Bit Map Image

1. In the PRINTER DRIVER SELECTIONS screen in S-mode, select the printer you use.
2. Delete INITIALIZE command.
3. In the DEFINE SERIAL PORT PARAMETERS screen in S-mode, select the port number which the printer is connected.
4. Select PRINT BITMAP to YES.
5. Select LOGO SIZE 0= Normal, 1= Double Wide, 2 = Double Height, 3 = Double Height and Width.
6. Build PRINTER TABLE properly.
7. Register a transaction and press RECEIPT ISSUE key.

Troubleshooting Common Problems

Hardware

- Refer to "Cabling Diagrams" on page 115 to verify that you direct or modem connection cable is configured properly.
- Verify that the hardware key is in place. SAMS 1000 will not start if the key is not found. In addition, SAM 1000 will check for the key at various times during an edit/polling session. If the key is loose, or has been removed, the program will shut down.

Note: US Robotics Sportster™ Modems are recommended for remote connections (for both PC and ECR sites).

Software

- Verify that register software and SAM 1000 versions are compatible. Due to necessary changes in register program structures, not all versions are compatible with all SAM 1000 versions.

Samsung SPS 1000

- The register port in use must be set for polling in S-Mode device selections.
- Verify that the port settings at the SPS 1000 are all default (9600 BAUD, NO PARITY, 8 DATA BITS, 1 STOP BIT.)
- If the register is part of an IRC system, verify that satellite registers are turned on.
- Verify that the correct store number is programmed.

SAM 1000

- Create a new store by selecting **Create New** from the *Stores* menu. See "

Creating a New Store" on page 12.

⇒ Verify that the store number and IRC range are set to identical values in S-Mode System Options and SAM 1000 Store Information.

⇒ Set the correct Communication Port and BAUD rate.

⇒ **Only enter a phone number** here if you are using a modem to poll data.

⇒ If your PC is using any *Microsoft Windows™* operating systems or any software application that has a communications-port configured, (for example a modem, mouse or other device) you may have to check on these settings to make sure there is not a conflict on the same communications port.

⇒ Enter information in the *Modem Initial String* field only if you have a modem that needs to be properly configured to communicate.

Starting Operations

- Verify that store files are uploaded in SAM1000. You must Receive (Upload) information from the ECR. Refer to "Receive Programs from ECR (Upload)" on page 73.
- If you are having trouble downloading store files from SAM 1000 to a register:

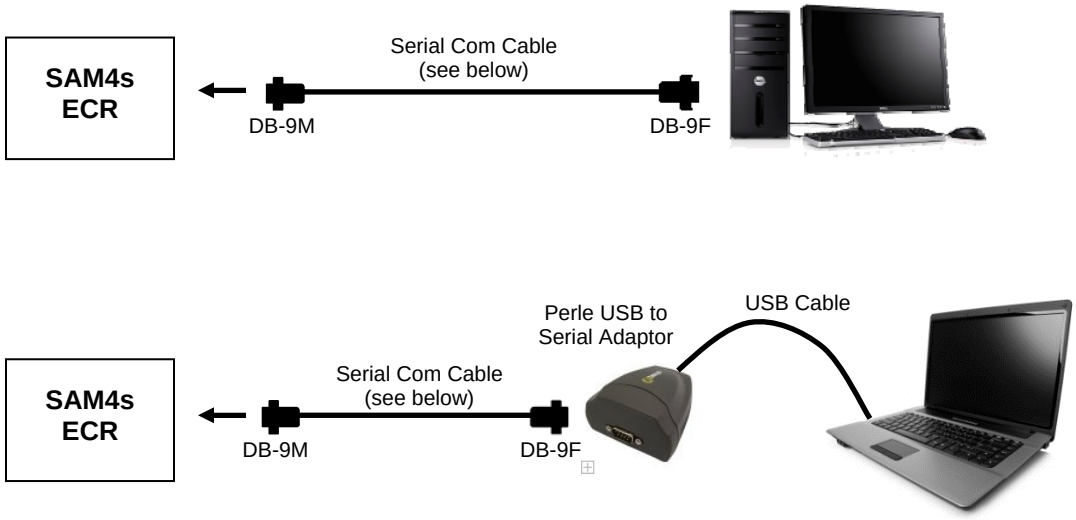
  ⇒ Be sure to select memory allocation and download first. Memory allocation is not selected when "select all" is selected.

  ⇒ If memory allocation fails, make sure there is enough memory in the register. An expanded memory board may be required.

  ⇒ Depending on memory allocation, some elements may fail during download. Several program files are only active when enabled in memory allocation.
- If problems persist, reboot the PC and try again.
- If you are having trouble with polling or with opening edit screens, be sure that you have uploaded the register program.
- If you are unable to access a file that has been uploaded, try closing SAM 1000 and reopening.

Cabling Diagrams

Typical SAM ECR to PC Connections



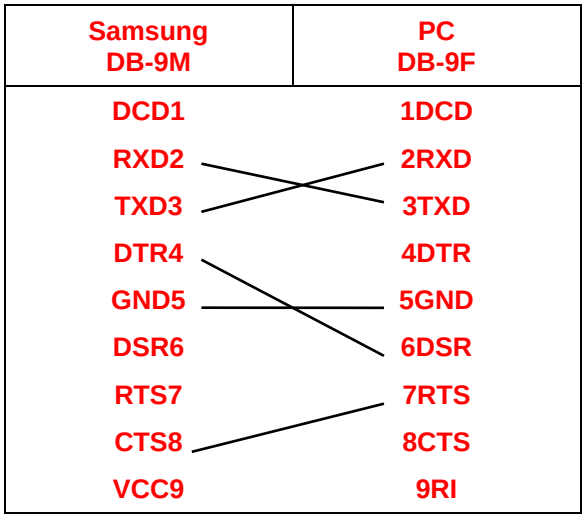
Note: If you are connecting the ECR to a PC or Laptop that has no serial port, you must use a USB to Serial adaptor as shown above. CRS offers a USB to Serial adaptor from *Perle* that has been tested and is known to work with SAM polling software products.

Cable Pinouts

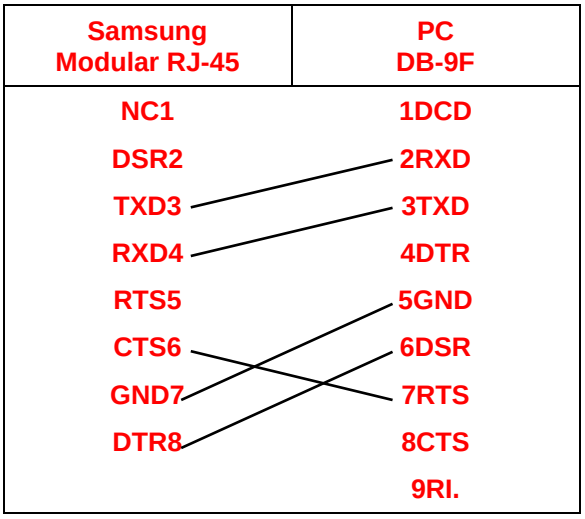
You can configure cables yourself with the diagram provided here, or you can order the appropriate cables from CRS Parts at 1-800-333-4949.

Direct Connection

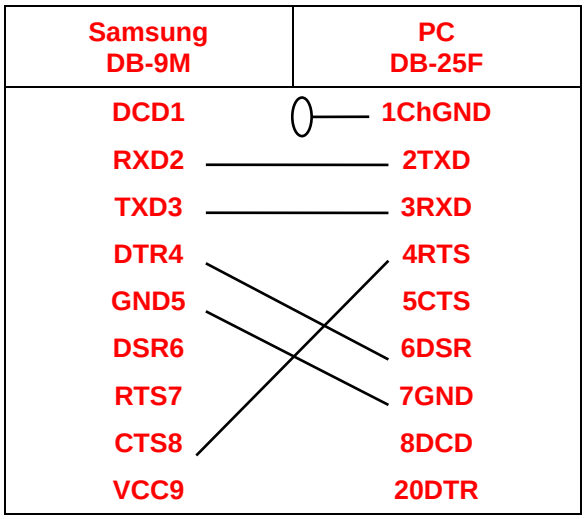
Part # 522035



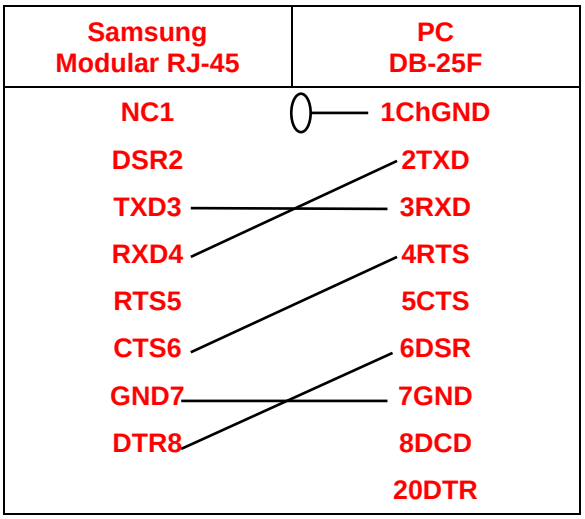
Part # 522032



Part # 522038



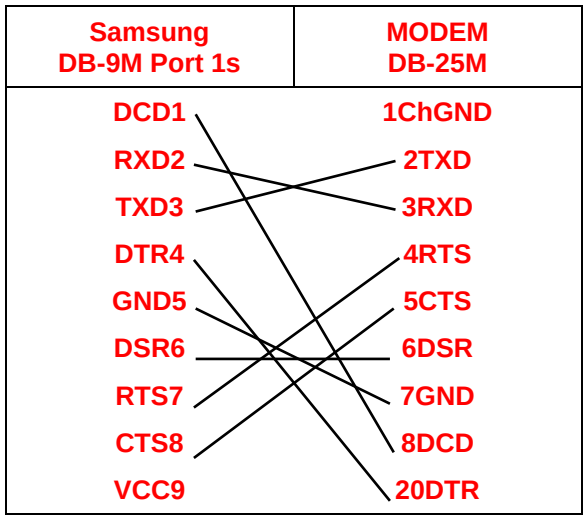
Part # 522036

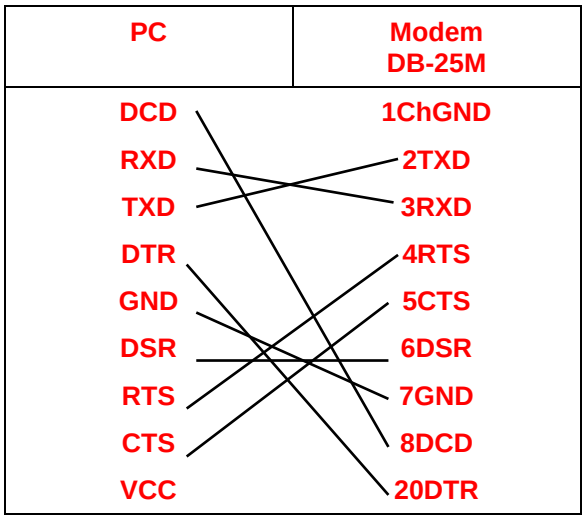


Modem Connection

Part # 522034

Note: Use only port #1 for off site communications using modems.





Manual Revision Record

Edition	Date published	Revison contents
V2.0	05/04/2005	
V2.1	8/26/2008	Updated to reflect version 4.1.2
V2.2	11/16/2009	Updated Installation and connection information.
V2.3	3/28/2013	Requires Windows XP or later operating system