



SAM4S

ER-420 / 420MF

CENTRAL CASH REGISTERS

RETAIL & HOSPITALITY SOLUTION

FOR FURTHER INFORMATION CONTACT :

ANIL PATEL: 082-5650013

BUTHO: 082-5789936

MUHAMMAD: 083-9290099

Address: 410 Main Road, Ferreirastown
JHB, PO. Box 737, Crown Mines 2025.

Tel: (011) 836 - 9512 / 9877

Fax: (011) 838 - 1900

ccr@global.co.za

<http://www.centralcash.co.za>

SAM4S ER-420/420MFF

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Bottle Store Solution

XYZ Bottle store is a wholesaler & retailer for liquors. They got retail prices & as well as wholesale prices and they are buying empty bottles for 0.50 cent each bottle.

Task:

For XYZ bottle store we need to configure the ER-420/420MFF Machine to meet their requirements. Because they are using multiple price levels so we need to allocate memory first on ER-420/420MFF Machine so he can use multiple prices on a single item like he can use wholesale price and as well as retail price for a single bottle.

XYZ bottle store got Beers, Ciders and Spirits and they also buying empty bottles, so we are going to create four (4) groups for Beers, Ciders, Spirits and Empties, and then we are going to configure list of PLU's and link different items to their respective groups. We also need to configure one PLU as a negative item because they are buying empty bottles from the customers.

After configuring the PLU's and the groups we also need to configure the stock because they wanted to control the stock as well.

Procedure:

1. Allocating Memory for Multiple Price Levels
 2. Creating a Groups
 3. Creating a Complete PLU Program and link different items to their respective Groups
 4. Configuring a Stock
 5. Allocating Price Level key on keyboard
 6. Allocating Macro keys on keyboard (for reports)
 7. Arrangement Sequence on Macro (for Reporting)
-

Solutions:

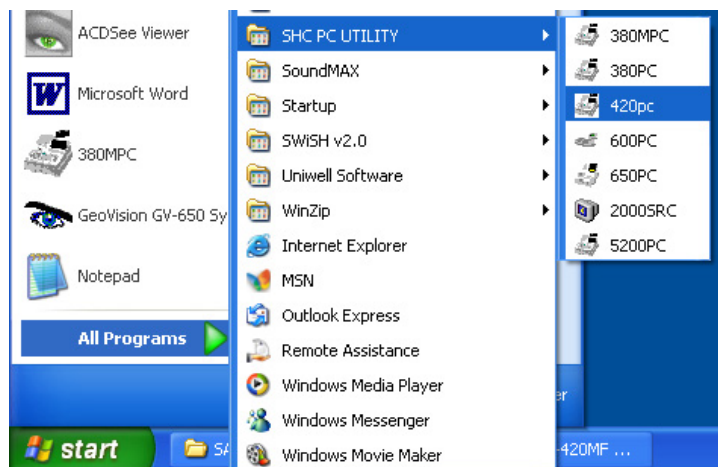
1) Allocating Memory for Multiple Price Levels:

1. Turn the Mode switch to Service Mode (S) position.
 2. Press 60
 3. Press Sub-Total
 4. Press Cash/Tend key to print out a memory allocation table.
- (The following steps will teach you how to allocate memory for Price levels):**

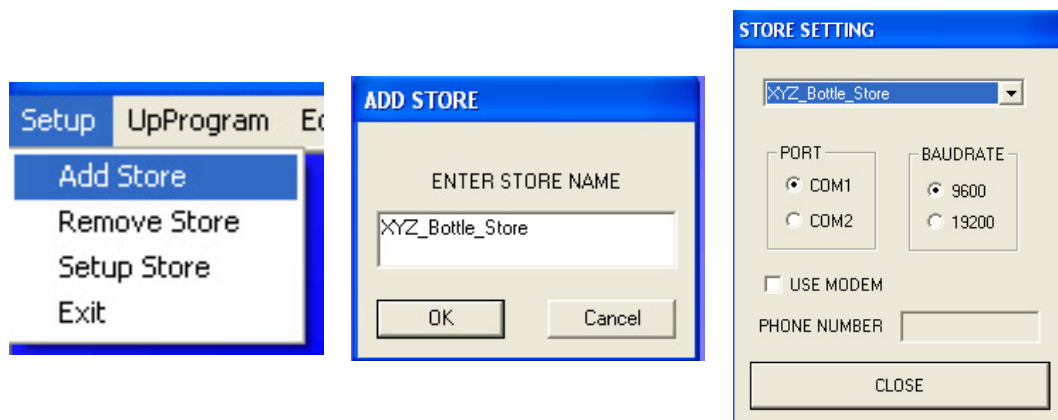
5. Press 60
6. Press Sub-Total
7. Press 7 (For Price level)
8. Press X/TIME
9. Press 2 (To use 2 price levels)
10. Press Cash/Tend
11. Press Cash/Tend again to save the settings

After Allocating memory for Price level connect your ER-420/420MF Machine with a PC using a Serial communication cable and then run a software utility and create a new store for "XYZ BOTTLE STORE" then use UpProgram first to upload from cash register to a software utility as you can see the steps on a following images:

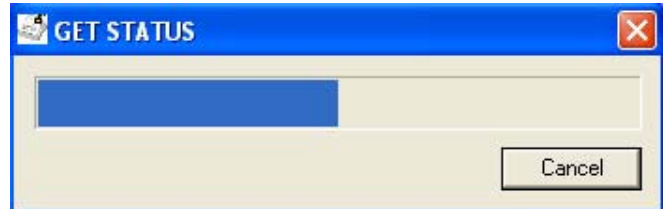
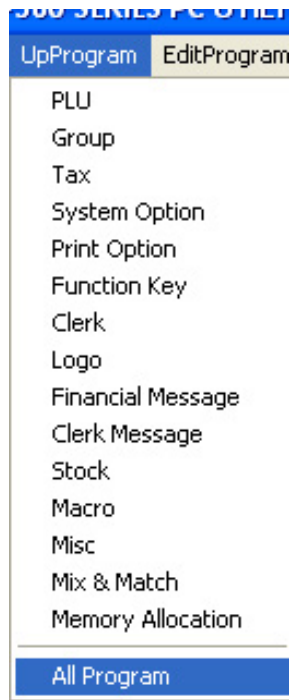
STEP-1: On your windows Click Start => All Programs => SHC PC Utility => 420PC



STEP-2: On your ER-420 PC utility Click Setup => Add Store and type XYZ_Bottle_Store as a Store name and Click OK and Press Close on a Store Setting window.

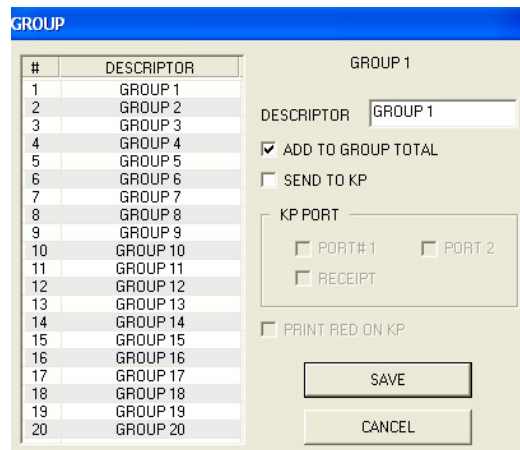
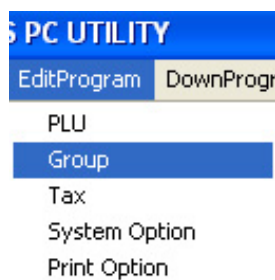


STEP-3: After creating a store you have to Click UpProgram => All Program to upload from a ER-420 Cash Register to a ER-420 PC Utility



2) Creating a Groups:

To Create a Groups Click EditProgram => Group as you can see on the following image:



On a Group window select groups and put descriptors for Beers, Ciders, Spirits and Empties, then click save as you can see on the following image:

The screenshot shows a window titled "GROUP" with a list of 20 groups on the left and a form for editing "GROUP 4" on the right. The list on the left has columns for "#", "DESCRIPTOR", and "GROUP". The form on the right has a "DESCRIPTOR" field with "EMPTIES" entered, a checked "ADD TO GROUP TOTAL" checkbox, an unchecked "SEND TO KP" checkbox, a "KP PORT" section with checkboxes for "PORT# 1", "PORT 2", and "RECEIPT", and an unchecked "PRINT RED ON KP" checkbox. At the bottom are "SAVE" and "CANCEL" buttons.

3) Creating a Complete PLU Program and link different items to their respective Groups:

For creating a complete PLU Program Click on EditProgram => PLU as you can see on the following image:

The screenshot shows a window titled "PROGRAMMING PLU - Right click to delete an item." with a list of 12 PLU items on the left and a form for editing a PLU item on the right. The list on the left has columns for "CODE", "DESCRIPTOR", and "PRICE1". The form on the right has a "TOTAL PLU#: 12" label, a "PLU CODE" field with "1" entered, a "DESCRIPTOR" field with "PLU1" entered, a "GROUP" field with "1" entered, a "PRICE1" field with "0.00" entered, a "PRICE2" field with "0.00" entered, a "PRESET" checkbox checked, a "PRESET OVERRIDE" checkbox checked, a "TAXABLE BY" section with checkboxes for "1", "2", "3", and "4", a "FOOD STAMP ELIGIBLE" checkbox, a "HASH ITEM" checkbox, a "NON ADD # COMP." checkbox, an "INVENTORY ITEM" checkbox, a "SCALABLE" checkbox, a "CONDIMENT ITEM" checkbox, a "PRINT ON RECEIPT" checkbox checked, a "PRINT PRICE ON RECEIPT" checkbox checked, a "DISABLE PROMO" checkbox, a "PRINT PRICE ON CHECK" checkbox checked, a "COUNTER NOT RESET" checkbox, a "PRESET OVERRIDE IN MGR MODE" checkbox, a "LINK PLU CODE" field with "0" entered, an "AUTO TARE" field with "0" entered, and a "MDX & MATCH #" field with "0" entered. At the bottom are "SAVE & EXIT", "SAVE & NEW", and "CANCEL" buttons.

On a PLU window select PLU's and Put descriptors for a PLU items and link it with their respective groups as you can see steps on following images. Once you programmed all your items on PLU windows click save and exit.

First - Program all your PLU items for Beers, put Price1 and Price2 and then link it with Group1 and select an Inventory item option because we have to control a stock of that item:

em.

TOTAL PLU# : 12

PLU CODE: 1

DESCRIPTOR: Castle

GROUP: 1 0 0

PRICE1: 12.00

PRICE2: 10.00

PRESET ☒ PRESET OVERRIDE ☒

TAXABLE BY: 1 ☒ 2 ☐ 3 ☐ 4 ☐

FOOD STAMP ELIGIBLE ☐ NEGATIVE ITEM ☐

HASH ITEM ☐ SINGLE ITEM ☐

NON ADD # COMP. ☐ GALLONAGE ITEM ☐

INVENTORY ITEM ☒ DISABLE ☐

SCALABLE ☐ AUTO SCALE ☐

CONDIMENT ITEM ☐ CONDIMENT COMP. ☐

PRINT ON RECEIPT ☒ PRINT ON CHECK ☒

PRINT PRICE ON RECEIPT ☒ PRINT PRICE ON CHECK ☒

DISABLE PROMO ☐ COUNTER NOT RESET ☐

PRESET OVERRIDE IN MGR MODE ☐

LINK PLU CODE: 0

AUTO TARE: 0

MIX & MATCH #: 0

Buttons: SAVE & EXIT, SAVE & NEW, CANCEL

Second - Program all your PLU items for Ciders, put Price1 and Price2 and then link it with Group2 and select an Inventory item option because we have to control a stock of that item:

em.

TOTAL PLU# : 12

PLU CODE: 6

DESCRIPTOR: Hunters Dr

GROUP: 2 0 0

PRICE1: 12.00

PRICE2: 10.00

PRESET ☒ PRESET OVERRIDE ☒

TAXABLE BY: 1 ☒ 2 ☐ 3 ☐ 4 ☐

FOOD STAMP ELIGIBLE ☐ NEGATIVE ITEM ☐

HASH ITEM ☐ SINGLE ITEM ☐

NON ADD # COMP. ☐ GALLONAGE ITEM ☐

INVENTORY ITEM ☒ DISABLE ☐

SCALABLE ☐ AUTO SCALE ☐

CONDIMENT ITEM ☐ CONDIMENT COMP. ☐

PRINT ON RECEIPT ☒ PRINT ON CHECK ☒

PRINT PRICE ON RECEIPT ☒ PRINT PRICE ON CHECK ☒

DISABLE PROMO ☐ COUNTER NOT RESET ☐

PRESET OVERRIDE IN MGR MODE ☐

LINK PLU CODE: 0

AUTO TARE: 0

MIX & MATCH #: 0

Buttons: SAVE & EXIT, SAVE & NEW, CANCEL

Third - Program all your PLU items for Spirits, put Price1 and Price2 and then link it with Group3 and select an Inventory item option because we have to control a stock of that item:

em.

TOTAL PLU#: 12

PLU CODE: 9

DESCRIPTOR: Vio Martel

GROUP: 3 0 0

PRICE1: 14.00

PRICE2: 12.00

PRESET ☒ PRESET OVERRIDE ☒

TAXABLE BY: 1 ☐ 2 ☐ 3 ☐ 4 ☐

FOOD STAMP ELIGIBLE ☐ NEGATIVE ITEM ☐

HASH ITEM ☐ SINGLE ITEM ☐

NON ADD # COMP. ☐ GALLONAGE ITEM ☐

INVENTORY ITEM ☒ DISABLE ☐

SCALABLE ☐ AUTO SCALE ☐

CONDIMENT ITEM ☐ CONDIMENT COMP. ☐

PRINT ON RECEIPT ☒ PRINT ON CHECK ☒

PRINT PRICE ON RECEIPT ☒ PRINT PRICE ON CHECK ☒

DISABLE PROMO ☐ COUNTER NOT RESET ☐

PRESET OVERRIDE IN MGR MODE ☐

LINK PLU CODE: 0

AUTO TARE: 0

MIX & MATCH #: 0

SAVE & EXIT

SAVE & NEW

CANCEL

Fourth - Program one of the PLU item as Empty Bottle, put Price1 and then link it with Group4, then click negative item because your Bottle store going to buy empty bottles from customers and its going to be subtracted from the cash register and select an Inventory item option because we have to control a stock of that item also:

em.

TOTAL PLU#: 12

PLU CODE: 12

DESCRIPTOR: Empty Bottle

GROUP: 4 0 0

PRICE1: 0.50

PRICE2: 0.00

PRESET ☒ PRESET OVERRIDE ☒

TAXABLE BY: 1 ☐ 2 ☐ 3 ☐ 4 ☐

FOOD STAMP ELIGIBLE ☐ NEGATIVE ITEM ☒

HASH ITEM ☐ SINGLE ITEM ☐

NON ADD # COMP. ☐ GALLONAGE ITEM ☐

INVENTORY ITEM ☒ DISABLE ☐

SCALABLE ☐ AUTO SCALE ☐

CONDIMENT ITEM ☐ CONDIMENT COMP. ☐

PRINT ON RECEIPT ☒ PRINT ON CHECK ☒

PRINT PRICE ON RECEIPT ☒ PRINT PRICE ON CHECK ☒

DISABLE PROMO ☐ COUNTER NOT RESET ☐

PRESET OVERRIDE IN MGR MODE ☐

LINK PLU CODE: 0

AUTO TARE: 0

MIX & MATCH #: 0

SAVE & EXIT

SAVE & NEW

CANCEL

4) Configuring a Stock:

To configure stock click on EditProgram => Stock and then select a PLU and put a quantity once you configured all the stock click save as you can see on the following image:

CODE	DESCRIPTOR	QUANTITY
1	Castle	50.00
2	Castle Light	50.00
3	Hansa	30.00
4	Amstel	30.00
5	Heiniken	30.00
6	Hunters Dry	60.00
7	Hunters Gold	60.00
8	Spin	20.00
9	Vio Martel	50.00
10	J & B	20.00
11	Red Label	30.00
12	Empty Bottle	10.00

5) Allocating Price Level key on Keyboard:

We need to allocate keys for Price levels as Level1 and Level2 because we are using multiple price levels for a single PLU's. So you have to check which keys on the ER-420 Machine you will never going to use so we are going to allocate that keys as a Level1 and Level2.

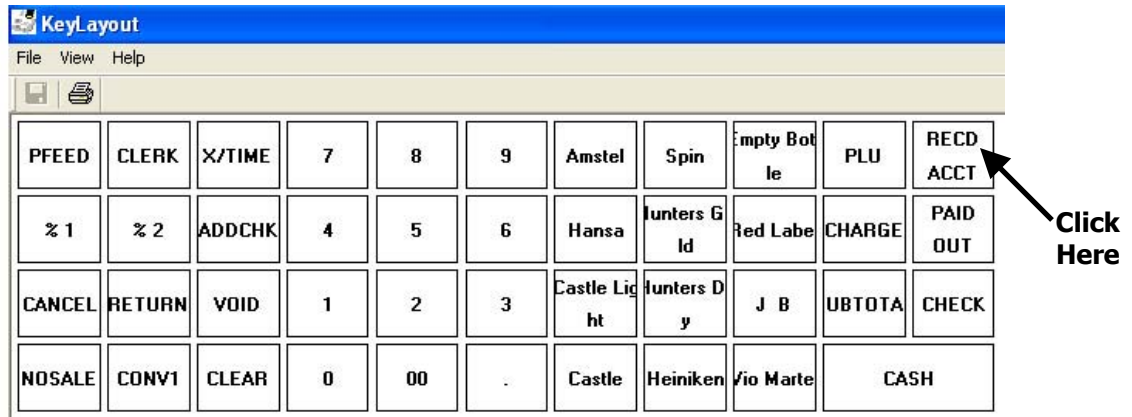
In the following example, we are going to allocate Received on Account (RECD. ACCT - RA1) key as LEVEL1 and Paid Out (PO1) key as a LEVEL2:

The following steps going to show how to allocate keys:

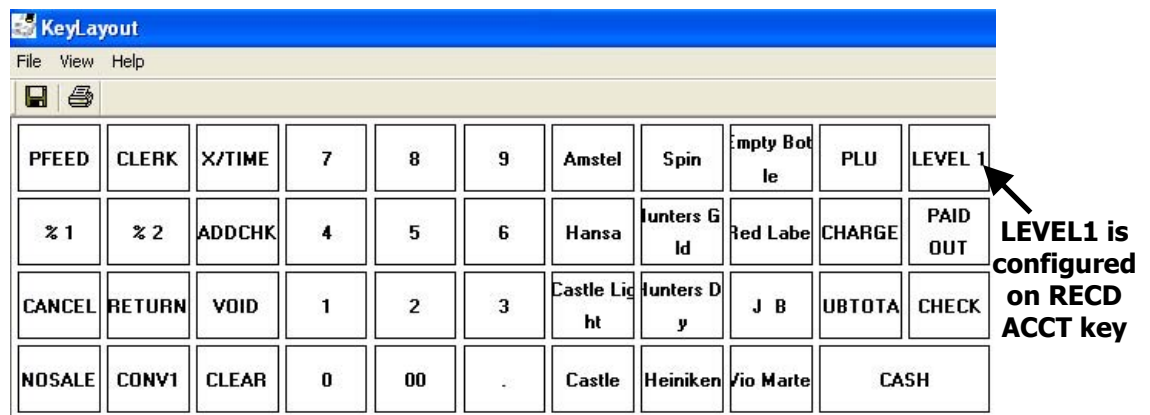
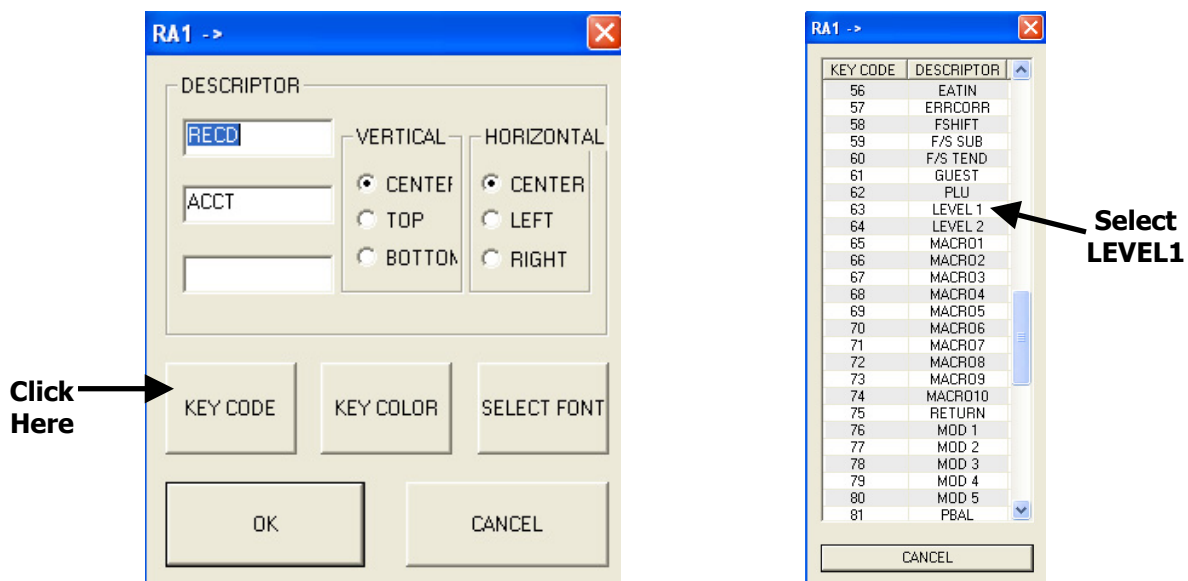
STEP-1: Click EditProgram => Keyboard Layout as you can see on the following image:

PFEEED	CLERK	X/TIME	7	8	9	Amstel	Spin	Empty Bot le	PLU	RECD ACCT
% 1	% 2	ADDCHK	4	5	6	Hansa	Hunters G Id	Red Labe	CHARGE	PAID OUT
CANCEL	RETURN	VOID	1	2	3	Castle Lig ht	Hunters D y	J B	UBTOTA	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Castle	Heiniken	Vio Martel	CASH	

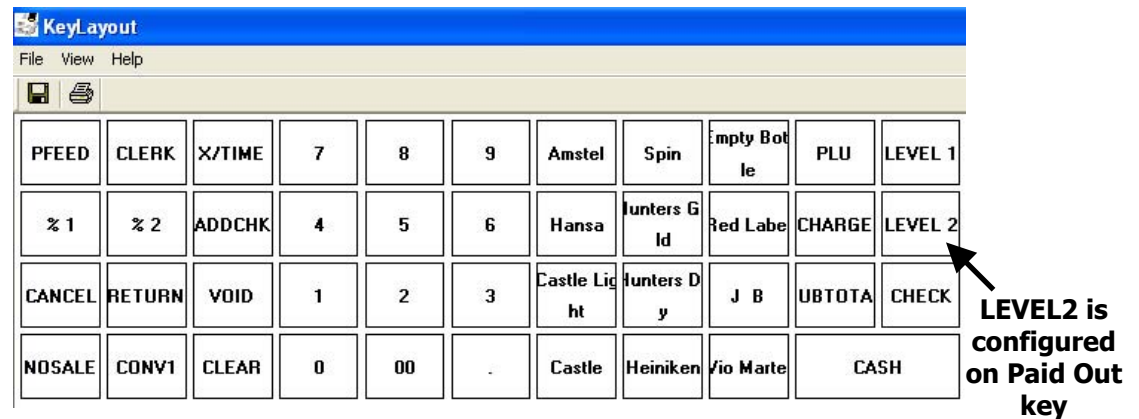
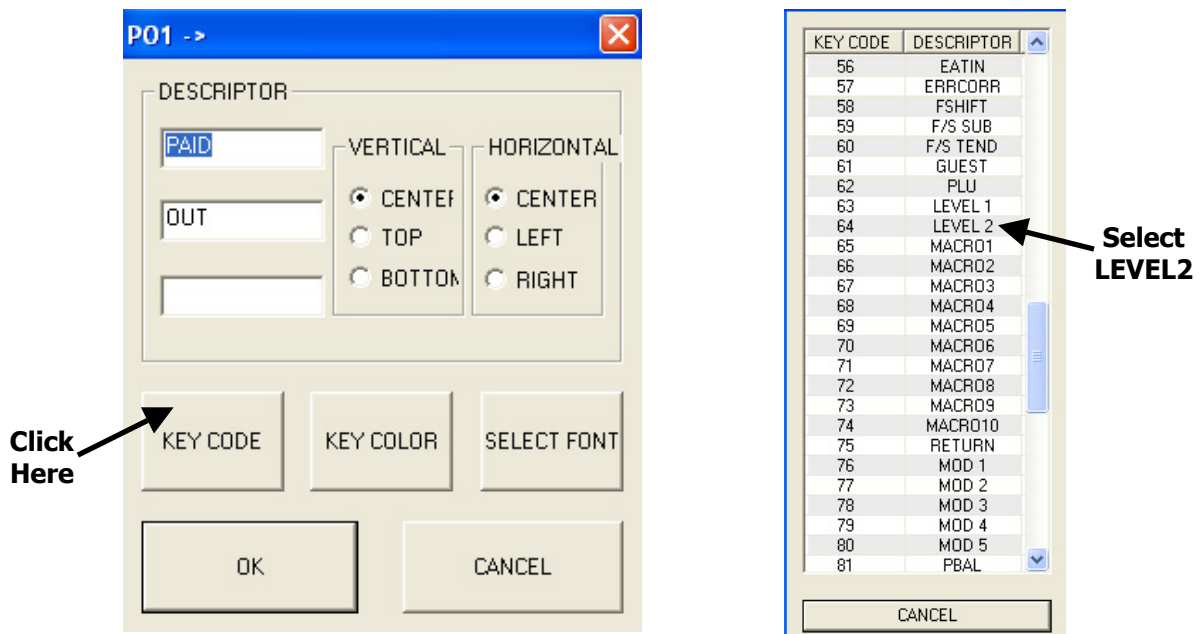
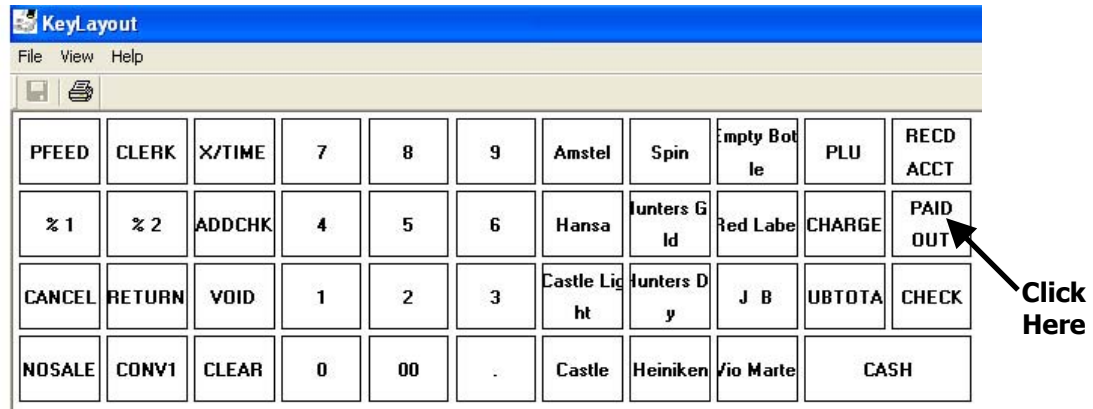
STEP-2: Click RECD ACCT Key on Keyboard Layout as you can see on the following image:



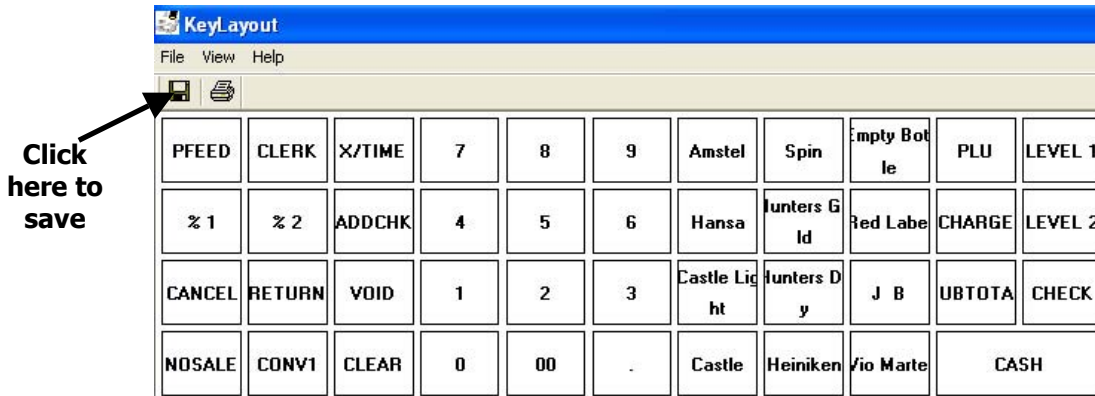
STEP-3: After clicking on the RECD ACCT Key on Keyboard Layout the RA1 windows going to appear then click KEY CODE and select LEVEL1 and then click OK as you can see on the following image:



STEP-4: After allocating key for LEVEL1 we need to allocate key for LEVEL2 also so in the following example we are going to allocate Level2 key on Paid out key.



Once you allocate the key for Level1 and Level2 then you have to save the settings as you can see on the following image.



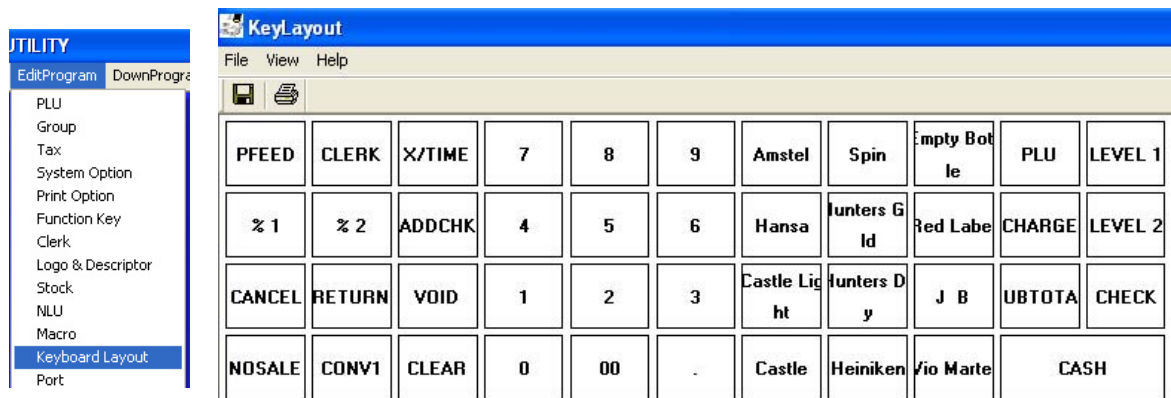
6) Allocating Macro keys on keyboard (for reports):

We need to allocate keys for MACRO as Macro1, Macro2 and Macro3 because we are going to program these Macro keys for daily and monthly reports. So you have to check which keys on the ER-420 Machine you will never going to use so we are going to allocate that keys as a Macro1, Macro2 and Macro3.

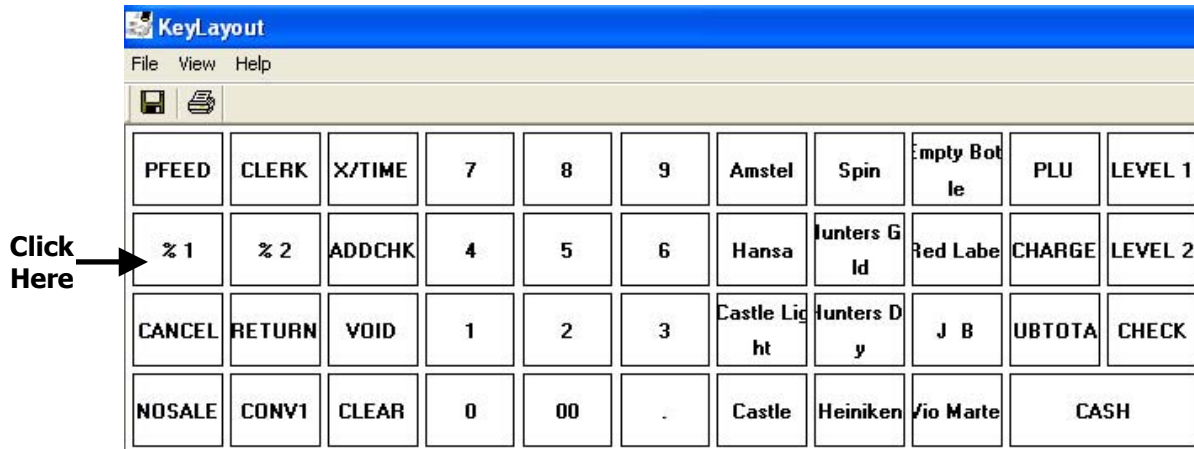
In the following example, we are going to allocate %1 key as MACRO1, %2 key as MACRO2 and ADD CHECK key as MACRO3:

The following steps going to show how to allocate keys:

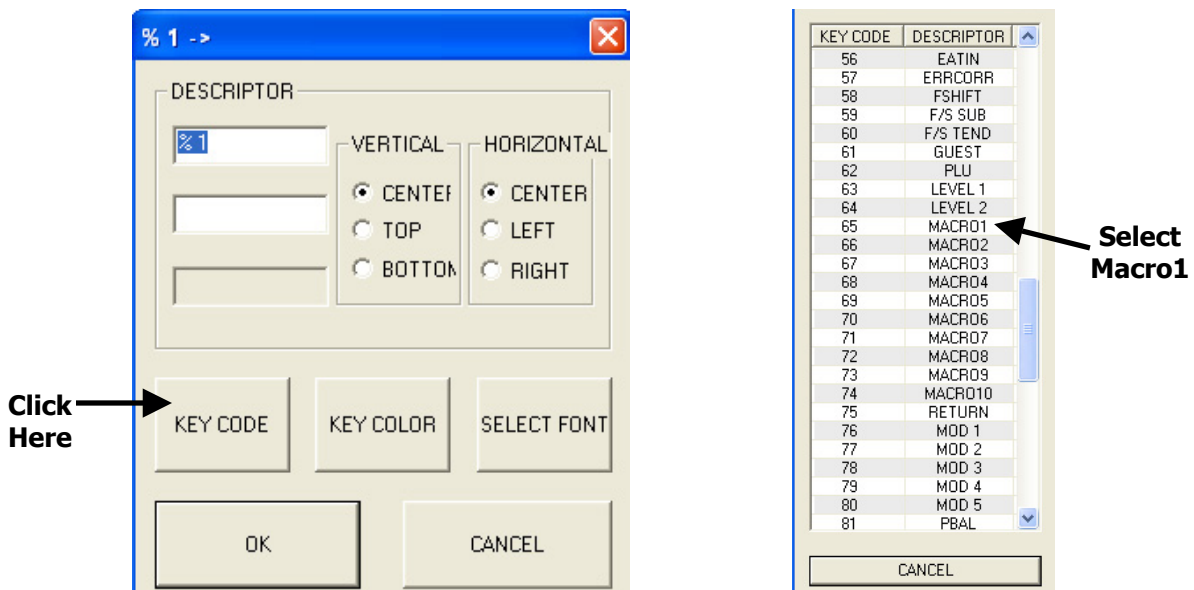
STEP-1: Click EditProgram => Keyboard Layout as you can see on the following image:



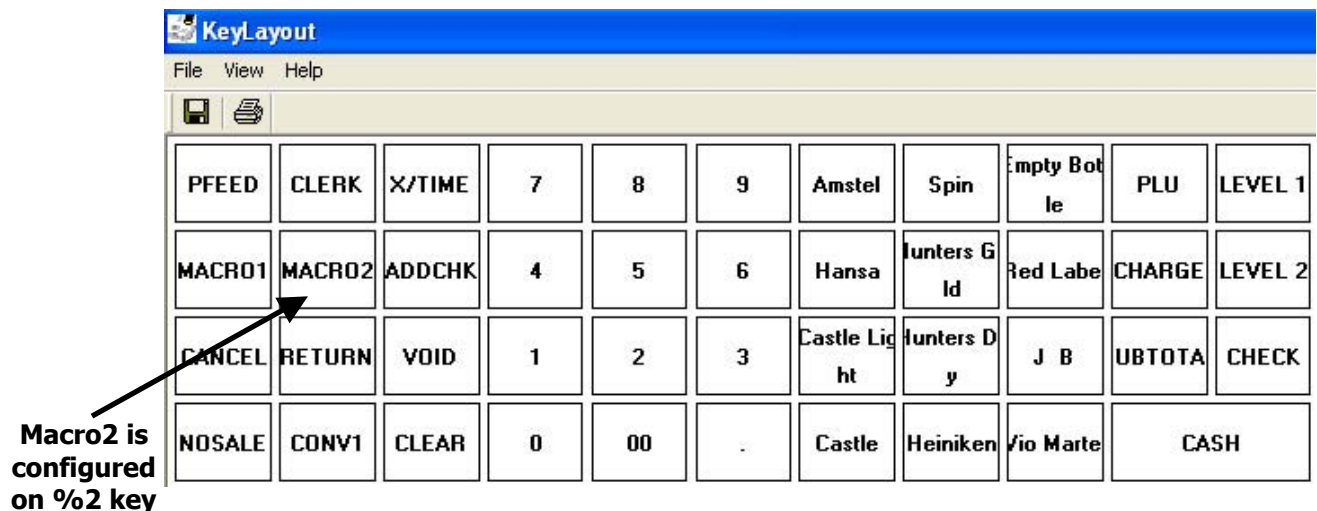
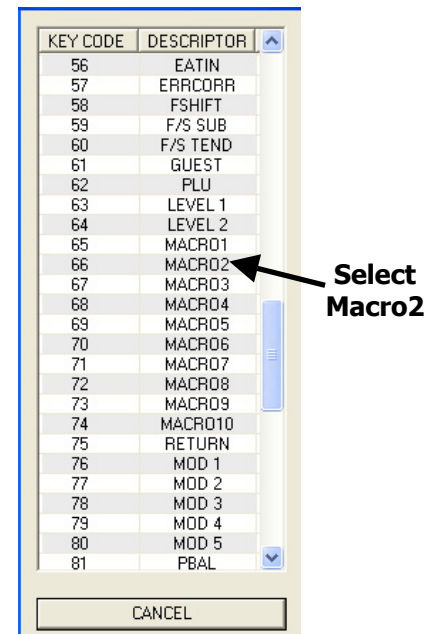
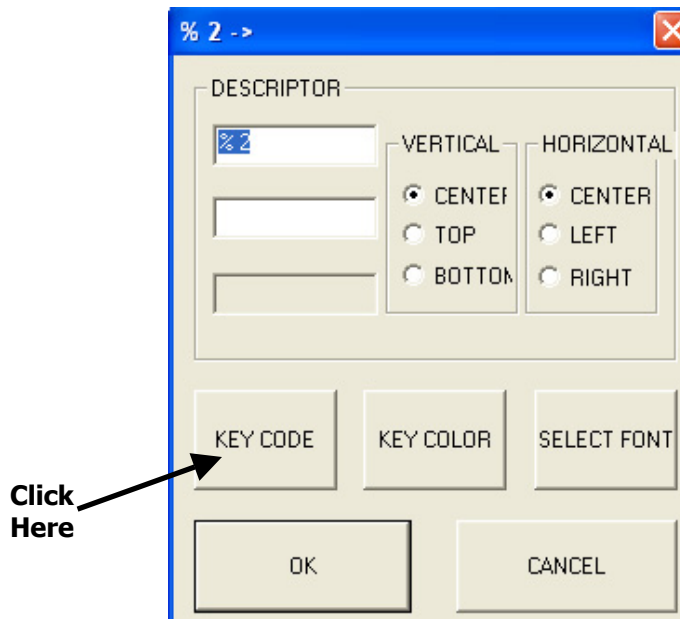
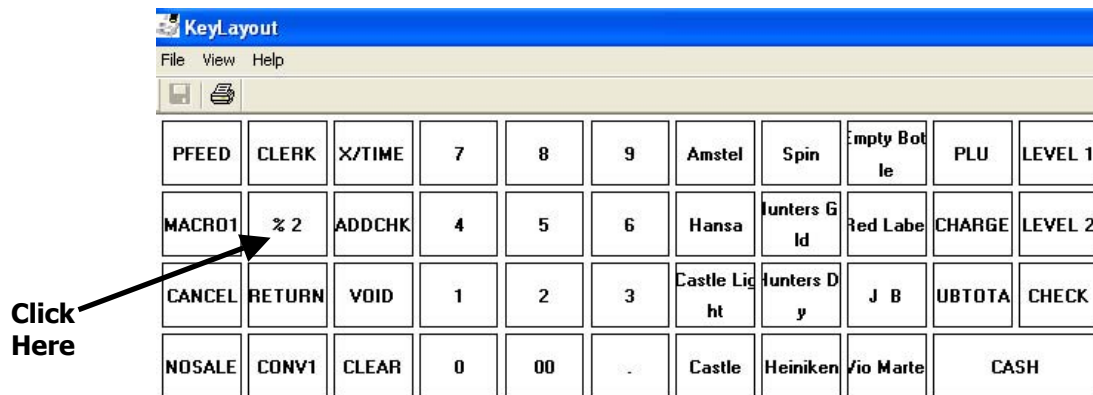
STEP-2: Click %1 Key on Keyboard Layout as you can see on the following image:

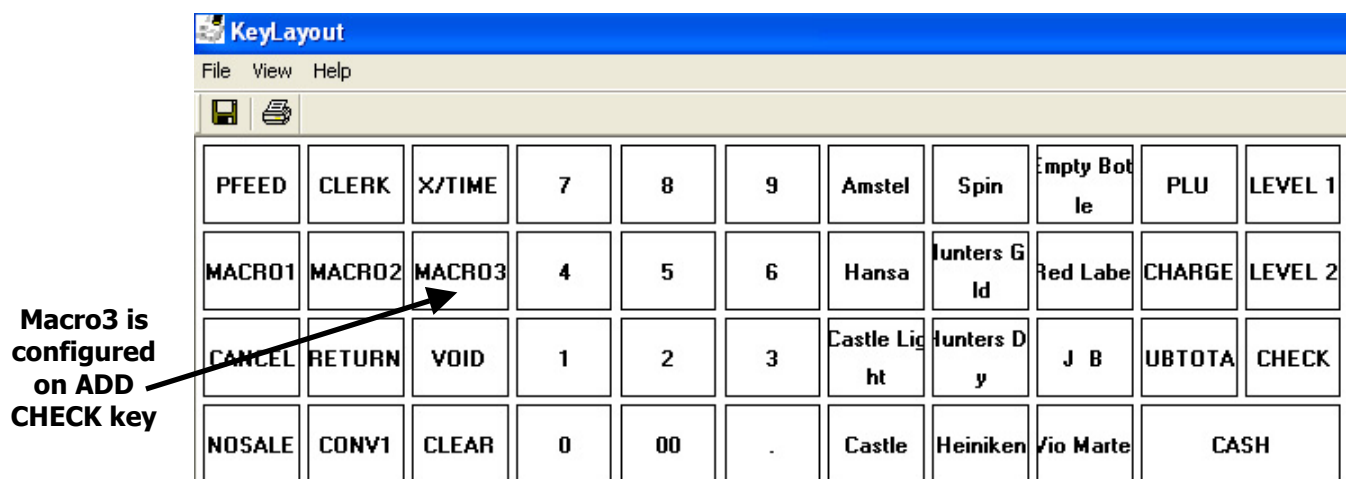
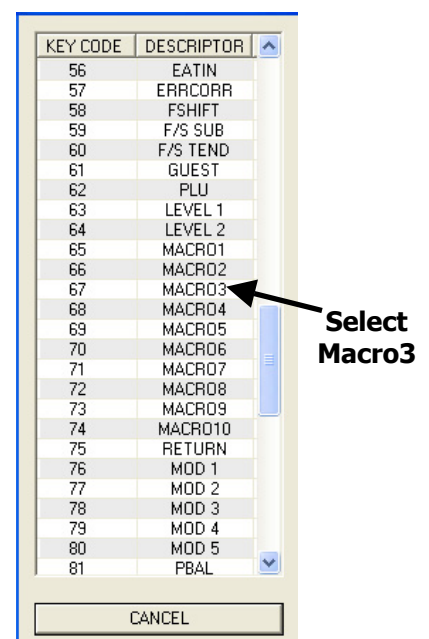
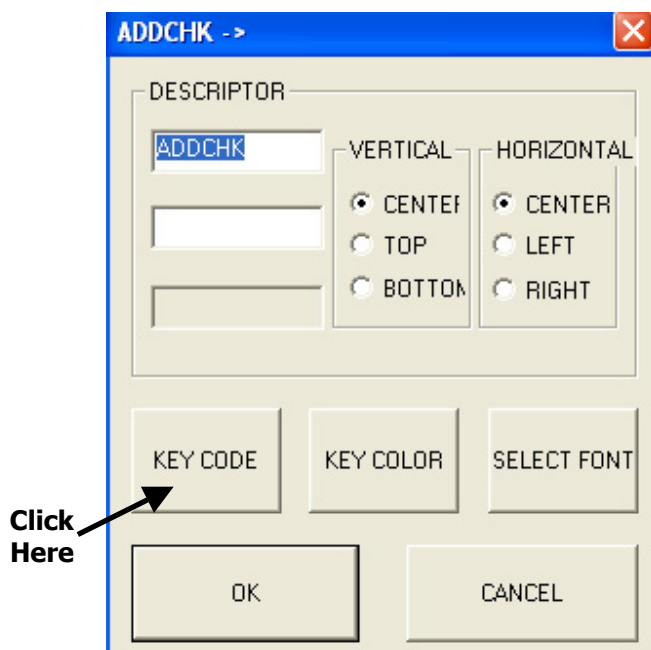
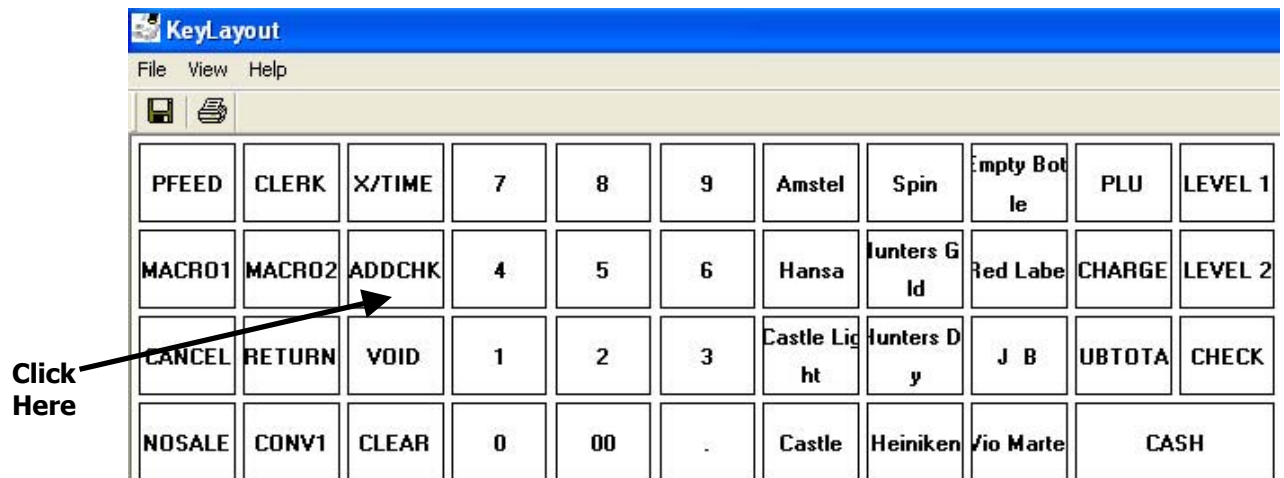


STEP-3: After clicking on the %1 Key on Keyboard Layout the %1 windows going to appear then click KEY CODE and select LEVEL1 and then click OK as you can see on the following image:

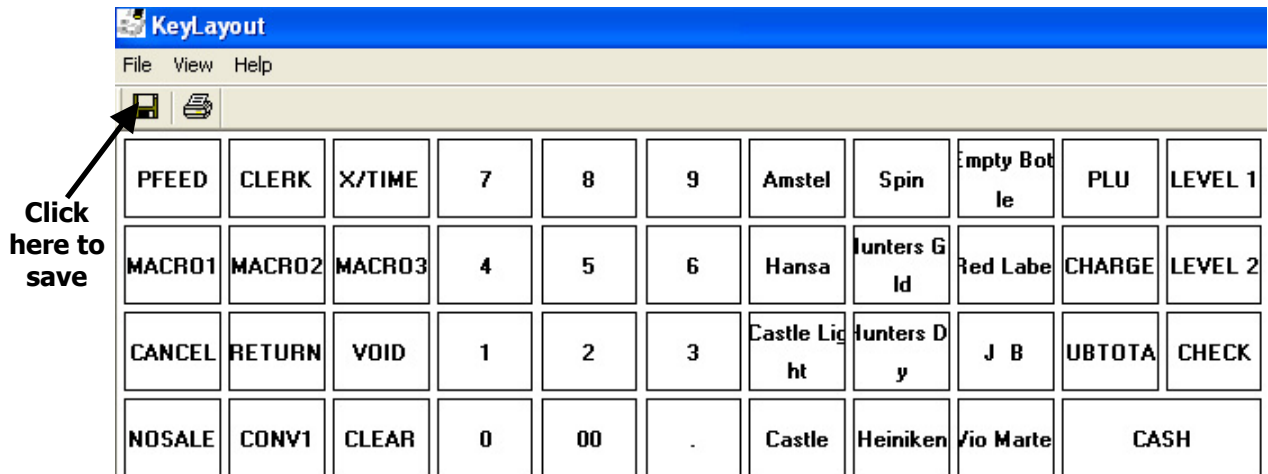


STEP-4: After allocating key for MACRO1 we need to allocate key for MACRO2 and MACRO3 also so in the following example we are going to allocate MACRO2 key on %2 key and MACRO3 key on ADD CHECK key.





Once you allocate the key for MACRO1, MACRO2 and MACRO3 then you have to save the settings as you can see on the following image.



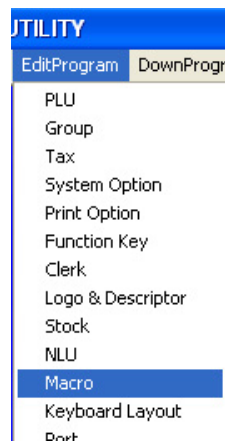
7) Arrangement Sequence on Macro (For Reporting):

After allocating keys for Macro's, you need to configure the Macro keys to print a report so you have to arrange the sequence for reporting on a Macro keys.

- Macro1 key we are going to use it for X1 (Daily Reports) for Financial, PLU, Groups and Stock.
- Macro2 key we are going to use it for Z1 (Daily Reports-End of the day) for Financial, PLU, and Groups.
- Macro3 key we are going to use it for Z2 (Monthly Reports-End of the month) for Financial, PLU and Groups.

Programming Macro1:

To Program Macro1 key you have to click EditProgram => Macro as you can see on the following:





Macro1 key we are going to use it for X1 (Daily Reports) for Financial, All PLU, Groups and Stock.

- For Daily Financial Report (X1)

On X-MODE
Press 1 and Sub-Total

- For Daily All PLU Report (X1)

On X-MODE
Press 3 and Sub-Total

- For Daily Group Report (X1)

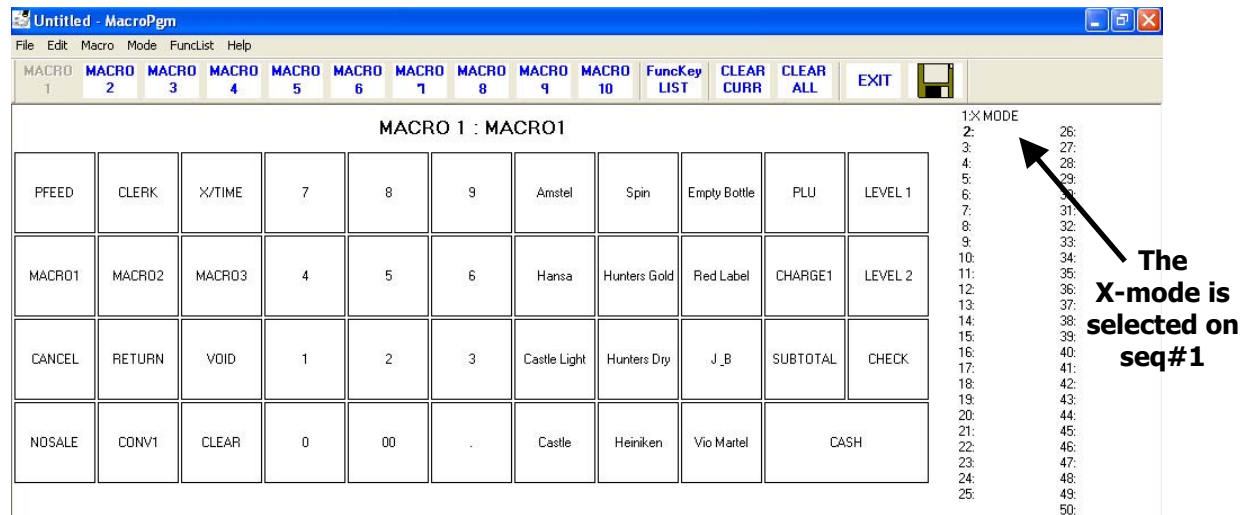
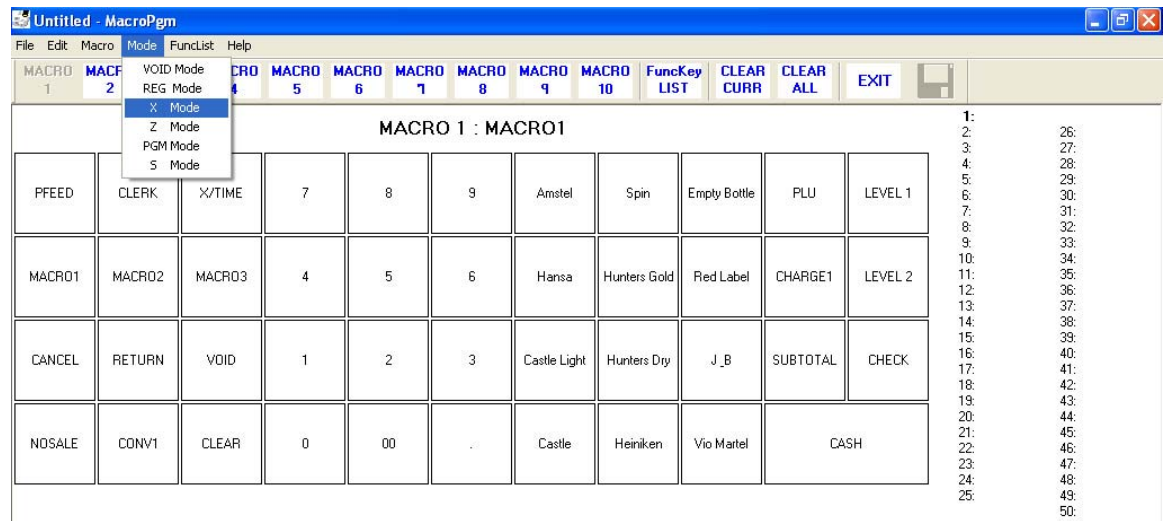
On X-MODE
Press 5 and Sub-Total

- For Daily Stock Report (X1)

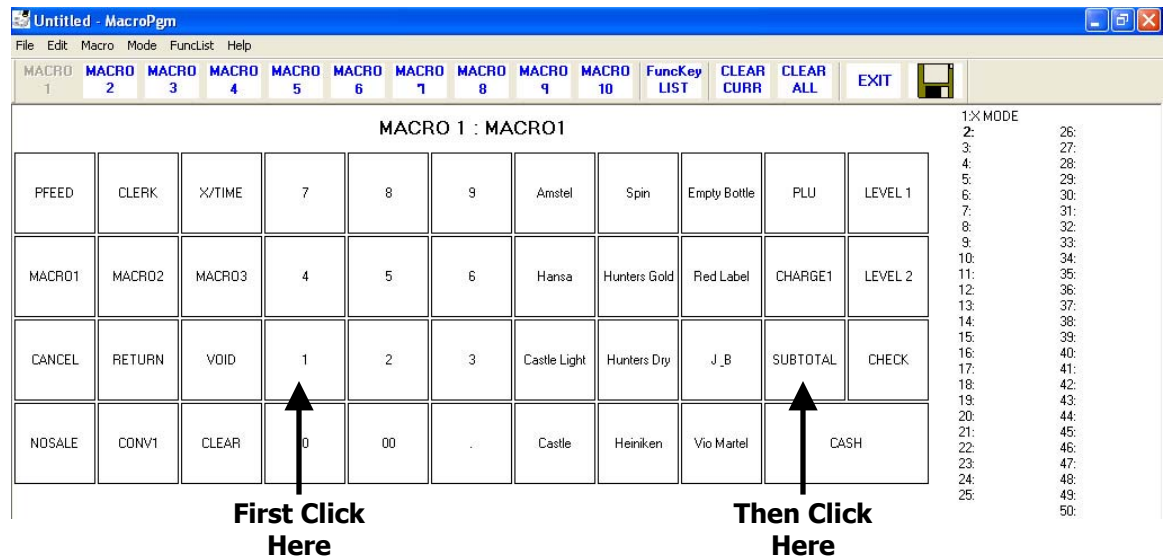
On X-MODE
Press 6 and Sub-Total

In the following steps we are going to see how to configure macro1:

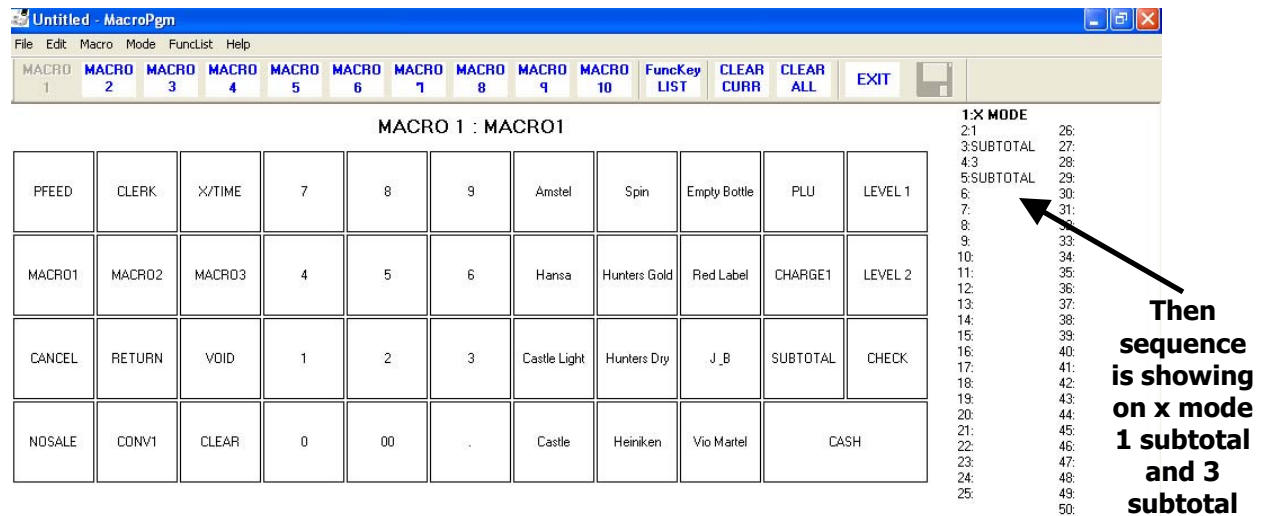
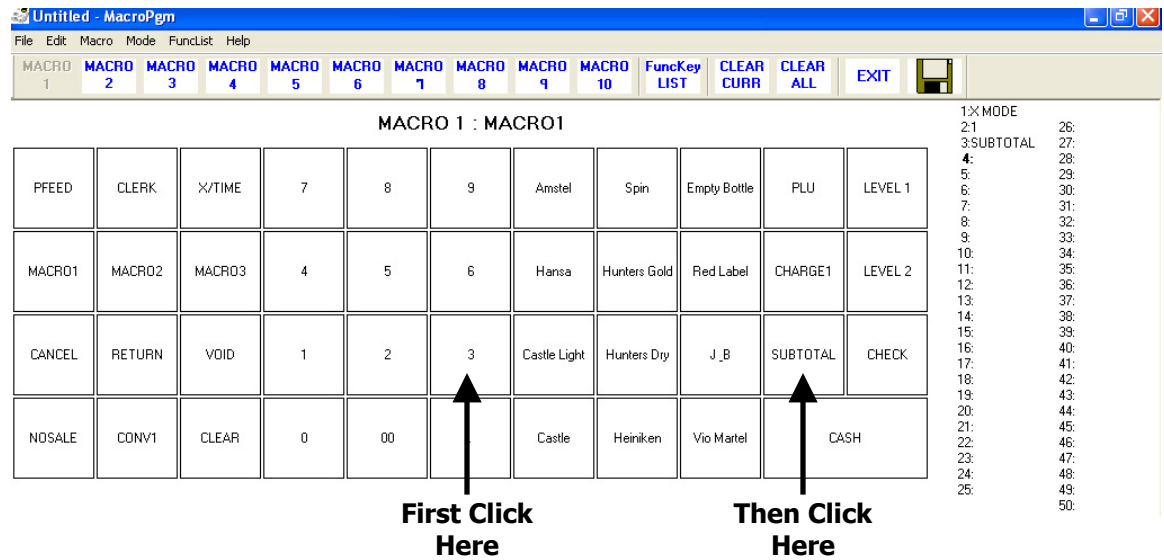
STEP-1: Click Mode => X Mode



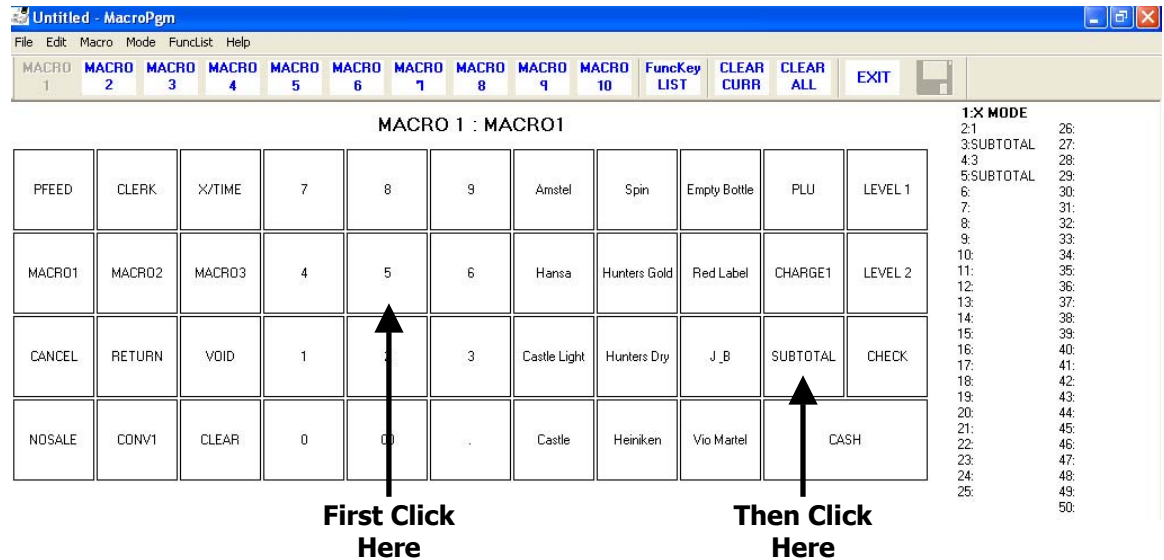
STEP-2: Click 1 and Click Sub-Total Key (For Daily Financial) as you can see on the following image:



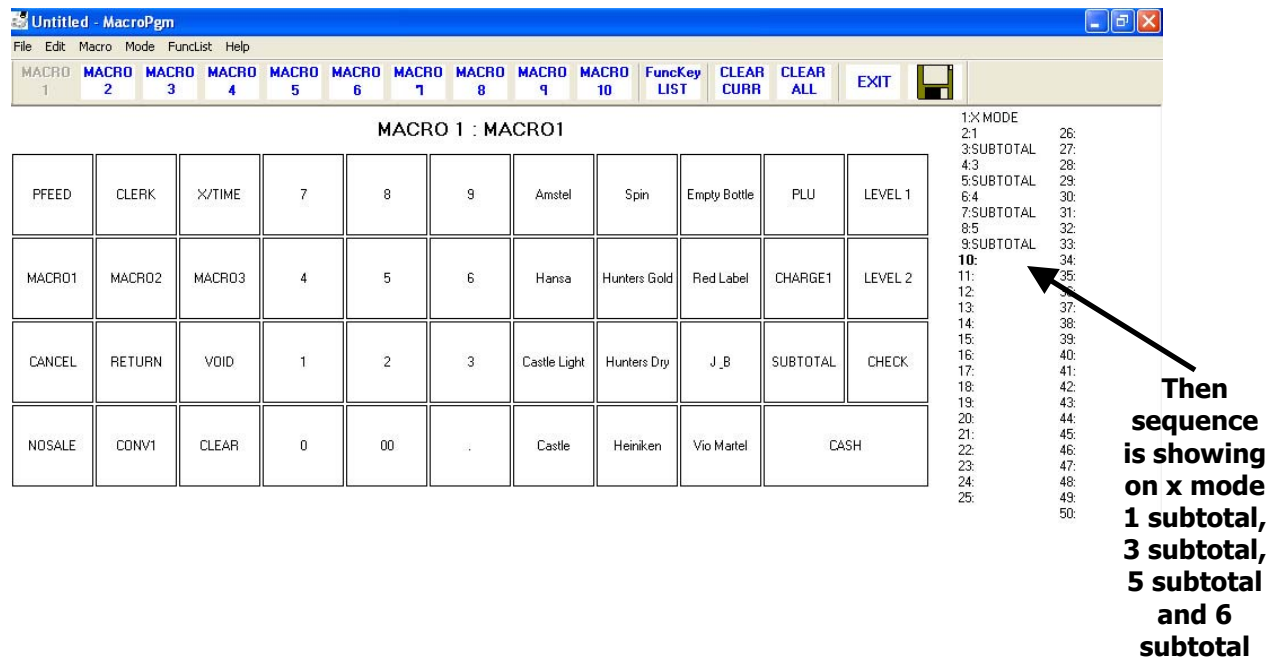
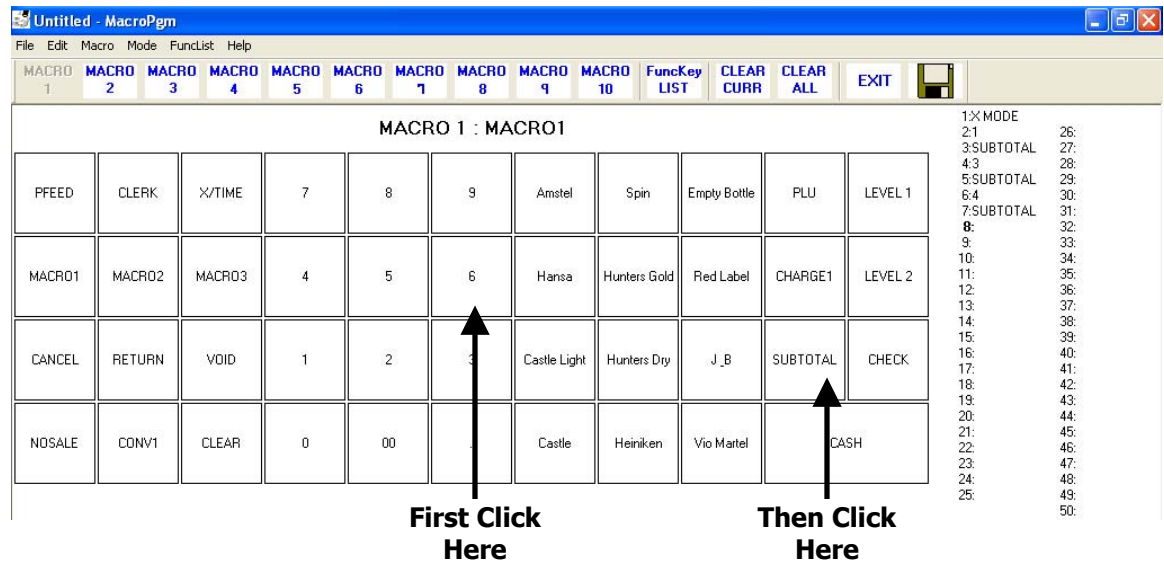
STEP-3: Click 3 and Click Sub-Total Key (For Daily All PLU) as you can see on the following image:



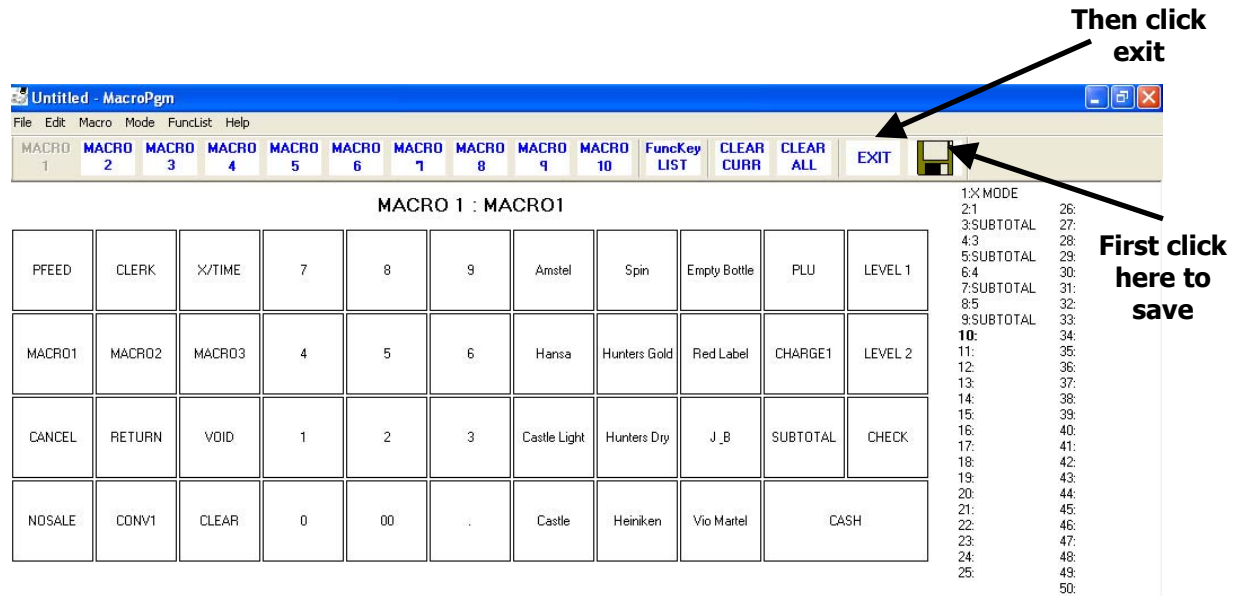
STEP-4: Click 5 and Click Sub-Total Key (For Daily Groups) as you can see on the following image:



STEP-5: Click 6 and Click Sub-Total Key (For Daily All Stock) as you can see on the following image:

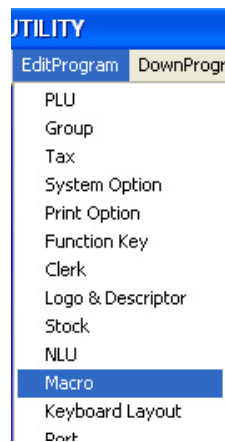


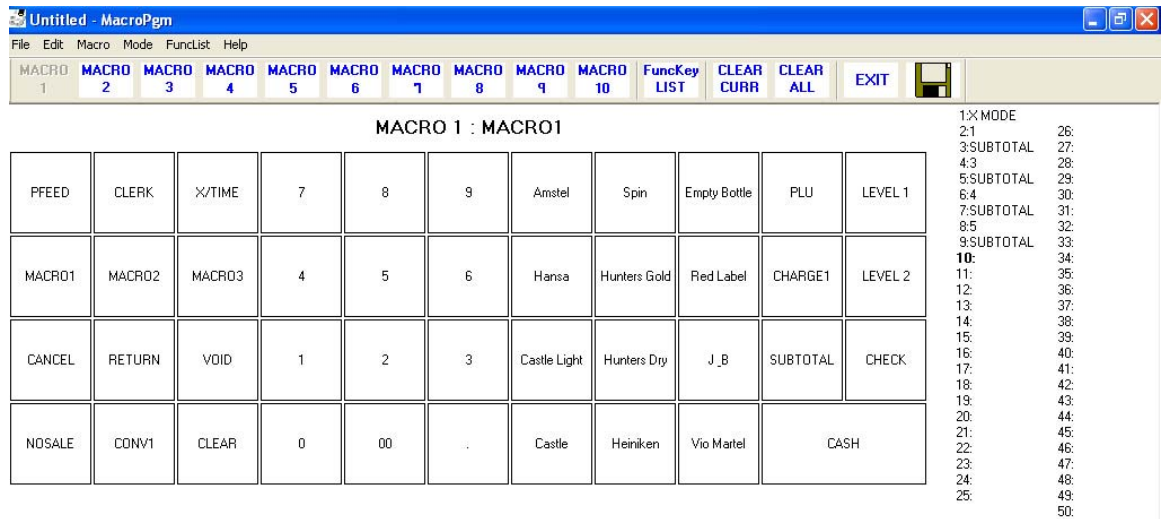
STEP-6: Once you have programmed Macro1 for (X1) Daily Financial, All PLU, Group and All Stock, then you have to save as you can see on the following image:



Programming Macro2:

To Program Macro2 key you have to click EditProgram => Macro as you can see on the following:





Macro2 key we are going to use it for Z1--End of the day (Daily Reports) for Financial, All PLU and Groups.

- For Daily Financial Report (Z1-End of the day)

On Z-MODE

Press 1 and Sub-Total

- For Daily All PLU Report (Z1-End of the day)

On Z-MODE

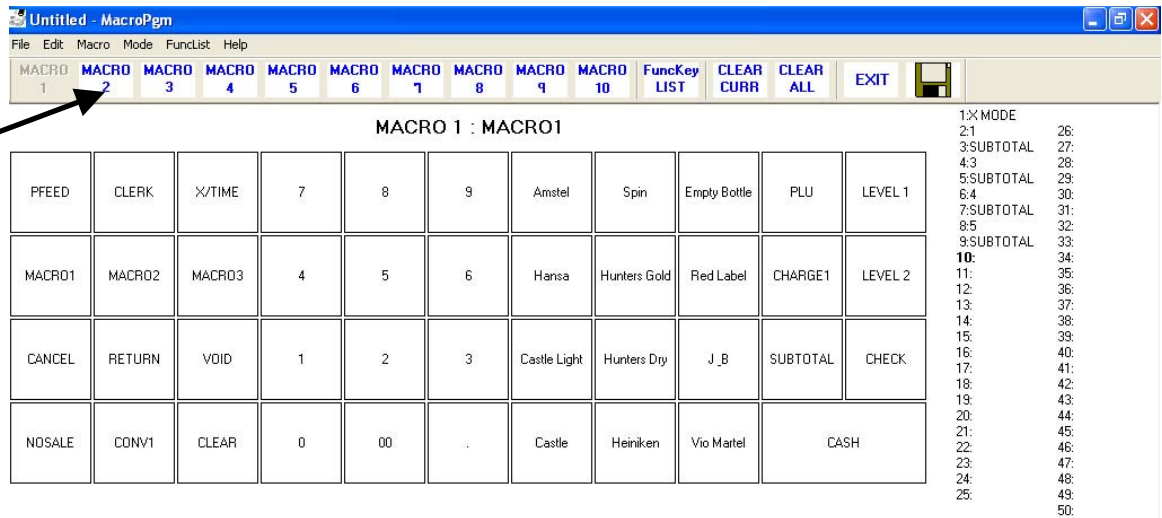
Press 3 and Sub-Total

- For Daily Group Report (Z1-End of the day)

On Z-MODE

Press 5 and Sub-Total

**Click here
to program
Macro2**





In the following steps we are going to see how to configure macro2:

STEP-1: Click Mode => Z Mode



STEP-2: Click 1 and Click Sub-Total Key (Z1- End of the day) For Daily Financial Report, Click 3 and click Sub-Total (Z1- End of the day) For Daily All PLU Report, Click 5 and Sub-Total (Z1- End of the day) For Daily Group Report, as you can see on the following image:

The sequence is showing on z mode 1 subtotal, 3 subtotal, and 5 subtotal

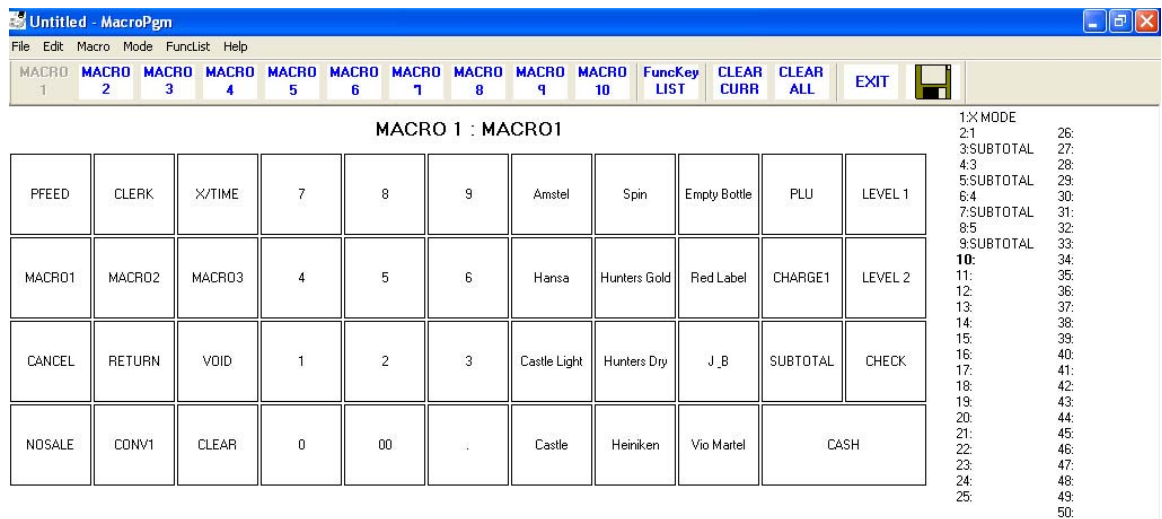
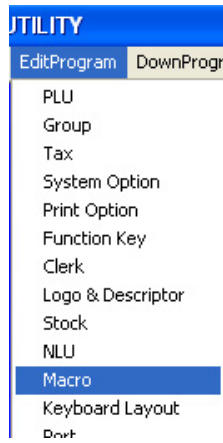
STEP-3: Once you have programmed Macro2 for (Z1-End of the day) Daily Financial, All PLU and Group, then you have to save as you can see on the following image:

Then click exit

First click here to save

Programming Macro3:

To Program Macro3 key you have to click EditProgram => Macro as you can see on the following:



Macro3 key we are going to use it for Z2 (Monthly Reports) for Financial, All PLU and Groups.

- For Monthly Financial Report (Z2)

On Z-MODE

Press 201 and Sub-Total

- For Monthly All PLU Report (Z2)

On Z-MODE

Press 203 and Sub-Total

- For Monthly Group Report (Z2)

On Z-MODE

Press 205 and Sub-Total

Click here to program Macro3

MACRO 1 : MACRO1

PFEED	CLERK	×/TIME	7	8	9	Amstel	Spin	Empty Bottle	PLU	LEVEL 1
MACRO1	MACRO2	MACRO3	4	5	6	Hansa	Hunters Gold	Red Label	CHARGE1	LEVEL 2
CANCEL	RETURN	VOID	1	2	3	Castle Light	Hunters Dry	J_B	SUBTOTAL	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Castle	Heiniken	Vio Martel	CASH	

1: X MODE
2: 1
3: SUBTOTAL
4: 3
5: SUBTOTAL
6: 4
7: SUBTOTAL
8: 5
9: SUBTOTAL
10: 6
11: 35
12: 36
13: 37
14: 38
15: 39
16: 40
17: 41
18: 42
19: 43
20: 44
21: 45
22: 46
23: 47
24: 48
25: 49
26: 50

Macro3 is selected

MACRO 3 : MACRO3

PFEED	CLERK	×/TIME	7	8	9	Amstel	Spin	Empty Bottle	PLU	LEVEL 1
MACRO1	MACRO2	MACRO3	4	5	6	Hansa	Hunters Gold	Red Label	CHARGE1	LEVEL 2
CANCEL	RETURN	VOID	1	2	3	Castle Light	Hunters Dry	J_B	SUBTOTAL	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Castle	Heiniken	Vio Martel	CASH	

1: 26:
2: 27:
3: 28:
4: 29:
5: 30:
6: 31:
7: 32:
8: 33:
9: 34:
10: 35:
11: 36:
12: 37:
13: 38:
14: 39:
15: 40:
16: 41:
17: 42:
18: 43:
19: 44:
20: 45:
21: 46:
22: 47:
23: 48:
24: 49:
25: 50:

In the following steps we are going to see how to configure macro3:

STEP-1: Click Mode => Z Mode

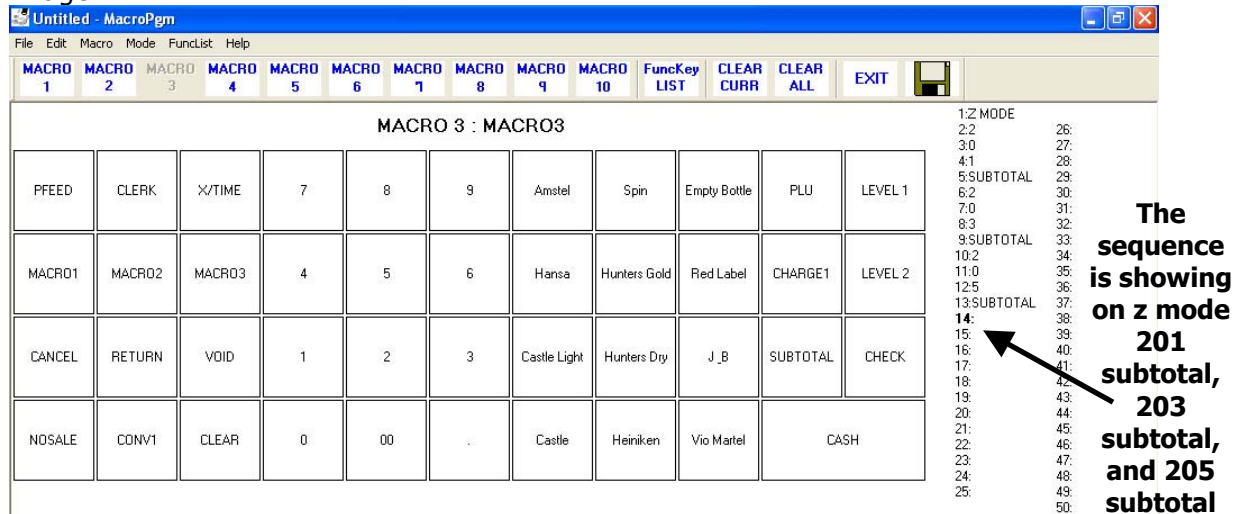
MACRO 3 : MACRO3

PFEED	CLERK	×/TIME	7	8	9	Amstel	Spin	Empty Bottle	PLU	LEVEL 1
MACRO1	MACRO2	MACRO3	4	5	6	Hansa	Hunters Gold	Red Label	CHARGE1	LEVEL 2
CANCEL	RETURN	VOID	1	2	3	Castle Light	Hunters Dry	J_B	SUBTOTAL	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Castle	Heiniken	Vio Martel	CASH	

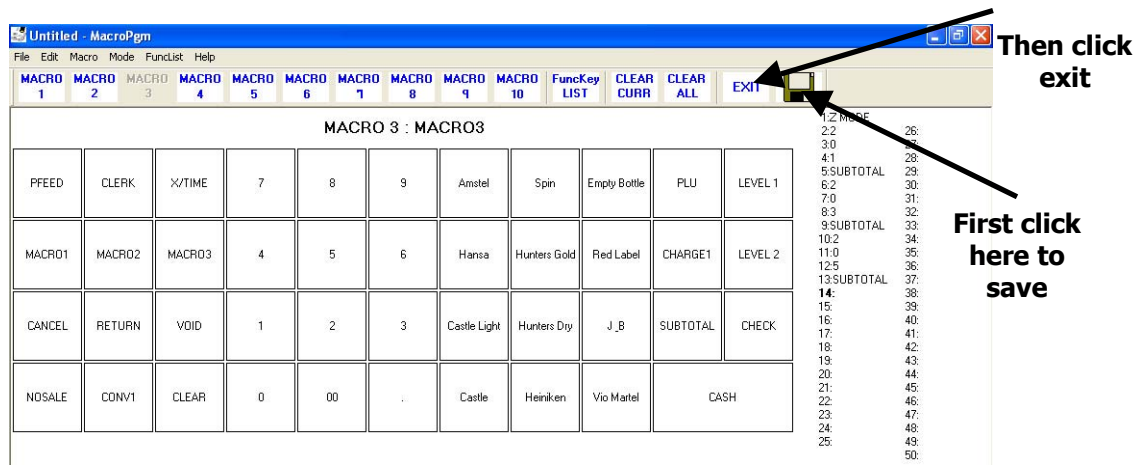
1: 26:
2: 27:
3: 28:
4: 29:
5: 30:
6: 31:
7: 32:
8: 33:
9: 34:
10: 35:
11: 36:
12: 37:
13: 38:
14: 39:
15: 40:
16: 41:
17: 42:
18: 43:
19: 44:
20: 45:
21: 46:
22: 47:
23: 48:
24: 49:
25: 50:



STEP-2: Click 201 and Click Sub-Total Key (Z2) For Monthly Financial Report, Click 203 and click Sub-Total (Z2) For Monthly All PLU Report, Click 205 and Sub-Total (Z2) For Monthly Group Report, as you can see on the following image:



STEP-3: Once you have programmed Macro3 for (Z2) Monthly Financial, All PLU and Group, then you have to save as you can see on the following image:



Once you configured everything according to their needs, then you have to use DownProgram => AllProgram to download every settings which you did on a PC Utility to ER-420/420MF Machine.

Next we are going to learn from the following examples, how we are going to use the machine when any customer comes to the store.

Example 1:

The Customer came to the XYZ Bottle Store and asks for a two Hunters Dry and he got four empty bottles, which he wanted to sell:

1. Turn the Mode switch to Register Mode (R or REG.) position.
 2. Press 2 (because he's buying 2 bottles)
 3. Press X/TIMES
 4. Press PLU6 (which is configured for Hunters Dry)
(The Retail Price for 1 x Hunters Dry = R12.00, its going to show you on the display screen the total for R 24.00, because he bought 2 x Hunters Dry)
 5. Press 4 (because he refunding 4 empty bottle)
 6. Press X/TIMES
 7. Press PLU12 (which is configured for Empty Bottle)
 8. Press Sub-Total
(Once the Sub-Total is pressed its going to show you the total by Subtracting 4 empty bottles which is R 0.50, so its going to subtract R2.00 from R24.00, which is R22.00 on the display screen)
 9. Press 25.00 (Because he paid you R25.00)
 10. Press Cash/Tend key
(Once the Cash key is pressed its going to print a slip showing 2 x Hunters Dry for R24.00 and Subtracting 4 X Empty Bottle for R2.00 and showing change of R3.00 because the subtotal was R22.00 but he paid you R25.00)
-

Example 2:

The Customer came to the XYZ Bottle Store and asks for a 10 Hunters Dry but he needs a Wholesale Price because he's buying 10 Bottles one time:

1. Turn the Mode switch to Register Mode (R or REG.) position.
 2. Press Level 2 (Because he wanted a wholesale price, so we already programmed level 2 key as a wholesale price which is R10.00)
 3. Press 10 (because he's buying 10 bottles)
 4. Press X/TIMES
 5. Press PLU6 (which is configured for Hunters Dry)
(The Whole sale Price for 1 x Hunters Dry = R10.00, its going to show you on the display screen the total for R 100.00, because he bought 10 x Hunters Dry)
 6. Press Cash/Tend
-

Example 3:

Around 12 A.M the XYZ Bottle Store wanted to see the reports just to check his stock and wanted to check how much sales he did till 12 A.M:

1. Turn the Mode switch to Manager Mode (X) position.
 2. Press Macro1 key
(Because this Macro key we already configured to print a X1 report for Financial, PLU, Groups and Stock).
-

Example 4:

The XYZ Bottle Store finalizes everything end of the day now he wanted to see the whole reports to check what sales he did end of the day.

1. Turn the Mode switch to Manager Mode (X) position.
 2. Press Macro2 key
(Because this Macro key we already configured to print Z1 (Daily Reports-End of the day) for Financial, PLU, and Groups.)
-

Scanning Solution

XYZ General Store is a Grocery Shop. Their shop is getting busy day by day so the best solution for them is to use scanner on the machine, because it is much more faster to sell and most of their items contains Bar code on it so he wanted to use scanner on an ER-420/420MF Machine, as well as he wanted to use Scanner for a PC also because it is easy for him to program those bar coded items on a software.

Task:

For XYZ General Store we need to configure the ER-420/420 Machine to meet their requirements. Because they got most of the items using Bar codes so we need to connect a PC scanner to a PC so by using it they can easily scan the bar-coded items and program it on the PC first. Then on an ER420/420MF machine we need to Allocate port to use a scanner.

XYZ General store got lots of different items like Cigarettes, Cans, Body Spray, and Lotions etc. etc., so we need to group all those items and then we are going to configure list of PLU's with their barcode numbers and link different items to their respective groups.

After configuring the PLU's and the groups we also need to configure the stock because they wanted to control the stock as well.

Procedure:

1. Allocating Port for a scanner on ER-420MF Machine.
 2. Creating Groups.
 3. Creating a Complete PLU Program with their barcode no and link different items to their respective Groups.
 4. Configuring a Stock.
-

Solutions:

1) Allocating Port for a scanner on ER-420MF Machine:

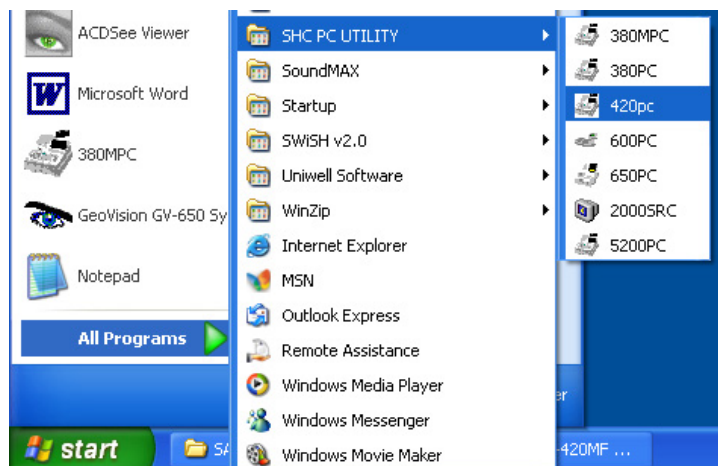
1. Turn the Mode switch to Service Mode (S) position.
2. Press 80 (For Serial Port# 1 on ER-420MF Machine)
3. Press Sub-Total
4. Press Cash/Tend key to print out a port allocation table.

(The following steps will teach you how to allocate port for Scanner):

5. Press 80
6. Press Sub-Total
7. Press 5 (For Device Function)
8. Press X/TIME
9. Press 6 (To use scanner)
10. Press Cash/Tend
11. Press Cash/Tend again to save the settings

After Allocating port for scanner connect your ER-420/420MF Machine with a PC using a Serial communication cable and then run a software utility and create a new store for "XYZ GENERAL STORE" then use UpProgram first to upload from cash register to a software utility as you can see the steps on a following images:

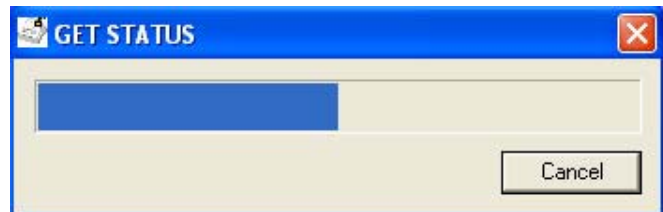
STEP-1: On your windows Click Start => All Programs => SHC PC Utility => 420PC



STEP-2: On your ER-420 PC utility Click Setup => Add Store and type XYZ_General_Store as a Store name and Click OK and Press Close on a Store Setting window.

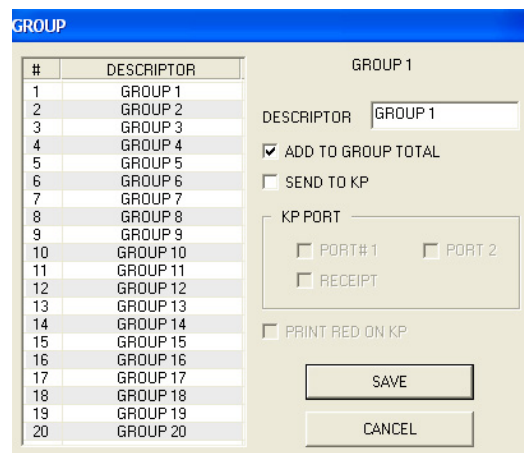
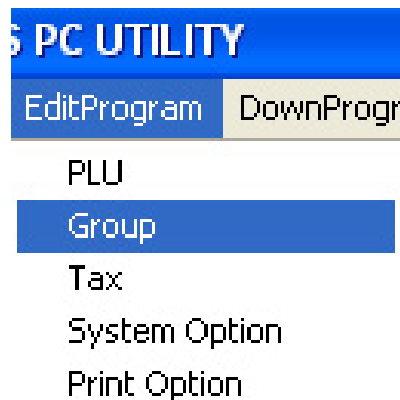


STEP-3: After creating a store you have to Click UpProgram => All Program to upload from a ER-420 Cash Register to a ER-420 PC Utility



2) Creating Groups:

To Create a Groups Click EditProgram => Group as you can see on the following image:



On a Group window select groups and put descriptors like cigarettes, cans, lotions, sprays etc. etc., and then click save as you can see on the following image:

The screenshot shows a window titled "GROUP" with a blue header. On the left is a table with 20 rows, each with a number and a descriptor. On the right is a configuration panel for "GROUP 1".

#	DESCRIPTOR
1	CIGARETTES
2	CANS
3	LOTIONS
4	SPRAYS
5	GROUP 5
6	GROUP 6
7	GROUP 7
8	GROUP 8
9	GROUP 9
10	GROUP 10
11	GROUP 11
12	GROUP 12
13	GROUP 13
14	GROUP 14
15	GROUP 15
16	GROUP 16
17	GROUP 17
18	GROUP 18
19	GROUP 19
20	GROUP 20

Configuration panel for GROUP 1:

- DESCRIPTOR: CIGARETTES
- ☒ ADD TO GROUP TOTAL
- ☐ SEND TO KP
- KP PORT:
 - ☐ PORT #1
 - ☐ PORT 2
 - ☐ RECEIPT
- ☐ PRINT RED ON KP
- SAVE button
- CANCEL button

3) Creating a Complete PLU Program with the barcodes and link different items to their respective Groups:

For creating a complete PLU Program Click on EditProgram => PLU as you can see on the following image:

The screenshot shows a menu titled "UTILITY" with a blue header. Below the header are two buttons: "EditProgram" and "DownProgram". A sub-menu is open under "EditProgram", showing options: "PLU", "Group", "Tax", and "System Option".

The screenshot shows a window titled "PROGRAMMING PLU - Right click to delete an item." with a blue header. It contains a table of PLU items and a configuration panel on the right.

CODE	DESCRIPTOR	PRICE1
1	PLU1	0.00
2	PLU2	0.00
3	PLU3	0.00
4	PLU4	0.00
5	PLU5	0.00
6	PLU6	0.00
7	PLU7	0.00
8	PLU8	0.00
9	PLU9	0.00
10	PLU10	0.00
11	PLU11	0.00
12	PLU12	0.00

Configuration panel for PLU1:

- TOTAL PLU#: 12
- PLU CODE: 1
- DESCRIPTOR: PLU1
- GROUP: 1 0 0
- PRICE1: 0.00
- PRICE2: 0.00
- PRESET ☒ PRESET OVERRIDE ☒
- TAXABLE BY: 1 ☐ 2 ☐ 3 ☐ 4 ☐
- FOOD STAMP ELIGIBLE ☐ NEGATIVE ITEM ☐
- HASH ITEM ☐ SINGLE ITEM ☐
- NON ADD # COMP. ☐ GALLONAGE ITEM ☐
- INVENTORY ITEM ☐ DISABLE ☐
- SCALABLE ☐ AUTO SCALE ☐
- CONDIMENT ITEM ☐ CONDIMENT COMP. ☐
- PRINT ON RECEIPT ☒ PRINT ON CHECK ☒
- PRINT PRICE ON RECEIPT ☒ PRINT PRICE ON CHECK ☒
- DISABLE PROMO ☐ COUNTER NOT RESET ☐
- PRESET OVERRIDE IN MGR MODE ☐
- LINK PLU CODE: 0
- AUTO TARE: 0
- MX & MATCH #: 0
- SAVE & EXIT button
- SAVE & NEW button
- CANCEL button

On a PLU window select PLU's and on a PLU code put your pointer and Scan the item using a PC scanner and Put descriptors for a PLU items and link it with their respective groups and select an Inventory item option because we have to control a stock of that item as you can see on following image. Once you programmed all your items on PLU windows click save and exit.

PROGRAMMING PLU - Right click to delete an item.

CODE	DESCRIPTOR	PRICE1
1	PLU1	0.00
2	PLU2	0.00
3	PLU3	0.00
4	PLU4	0.00
5	PLU5	0.00
6	PLU6	0.00
7	PLU7	0.00
8	PLU8	0.00
9	PLU9	0.00
10	PLU10	0.00
11	PLU11	0.00
12	PLU12	0.00
60068743	B&H Special Mild	16.00

TOTAL PLU#: 13

PLU CODE: 60068743
 DESCRIPTOR: B&H Special Mild
 GROUP: 1 0 0
 PRICE1: 16.00
 PRICE2: 0.00
 PRESET ☒ PRESET OVERRIDE ☒
 TAXABLE BY: 1 ☐ 2 ☐ 3 ☐ 4 ☐
 FOOD STAMP ELIGIBLE ☐ NEGATIVE ITEM ☐
 HASH ITEM ☐ SINGLE ITEM ☐
 NON ADD # COMP. ☐ GALLONAGE ITEM ☐
 INVENTORY ITEM ☒ DISABLE ☐
 SCALABLE ☐ AUTO SCALE ☐
 CONDIMENT ITEM ☐ CONDIMENT COMP. ☐
 PRINT ON RECEIPT ☒ PRINT ON CHECK ☒
 PRINT PRICE ON RECEIPT ☒ PRINT PRICE ON CHECK ☒
 DISABLE PROMO ☐ COUNTER NOT RESET ☐
 PRESET OVERRIDE IN MGR MODE ☐
 LINK PLU CODE: 0
 AUTO TARE: 0
 MIX & MATCH #: 0

Buttons: SAVE & EXIT, SAVE & NEW, CANCEL

Scan the item using a PC Scanner

4) Configuring a Stock:

To configure stock click on EditProgram => Stock and then select a PLU Code & Scan the item by using PC Scanner and put a quantity once you configured all the stock click save as you can see on the following image:

UTILITY

EditProgram DownProgr

- PLU
- Group
- Tax
- System Option
- Print Option
- Function Key
- Clerk
- Logo & Descriptor
- Stock**
- NLU
- Macro

PluStock

CODE	DESCRIPTOR	QUANTI...
12	PLU12	0.00
60068743	B&H Special Mild	50.00

PLU CODE: 60068743
 QUANTITY: 50.00
 Buttons: SAVE, CLEAR ALL, CANCEL

Scan the item using a PC Scanner and put Quantity

Once you configured everything according to their needs, then you have to use DownProgram => AllProgram to download every settings which you did on a PC Utility to ER-420/420MF Machine.

Next we are going to learn from the following examples, how we are going to use the machine when any customer comes to the store.

Example:

The Customer came to the XYZ General Store and asks for a pack of Cigarettes (B&H Special Mild):

1. Turn the Mode switch to Register Mode (R or REG.) position.
 2. Scan the item from Cash register using scanner
 3. It's going to pick up the item showing descriptor and a price.
 4. Press Cash/Tend (to finalize the transaction)
-

Butchery Solution

(Price Embedded Barcodes)

XYZ Store is a Butchery Shop. They are using Scale to print barcodes on their products. The ER-420MF Machine will pickup the price from the Barcode label on their product, as you can say it is a price embedded barcodes because its picking up the price from the Barcodes.

Task:

For XYZ Butchery Store we need to configure the ER-420/420MF Machine to meet their requirements. Because they got most of the items using Bar codes so we need to connect a PC scanner to a PC so by using it they can easily scan the bar-coded items and program it on the PC. Then on an ER420/420MF machine we need to allocate port to use a scanner and configure the option to use embedded barcodes because the machine can pickup the price of the item through barcodes.

Procedure:

1. Allocating Port for a scanner on ER-420MF Machine.
 2. Configuring a System Option to use Embedded Barcodes.
 3. Creating a Complete PLU Program with their barcode numbers.
-

Solutions:

1) Allocating Port for a scanner on ER-420MF Machine:

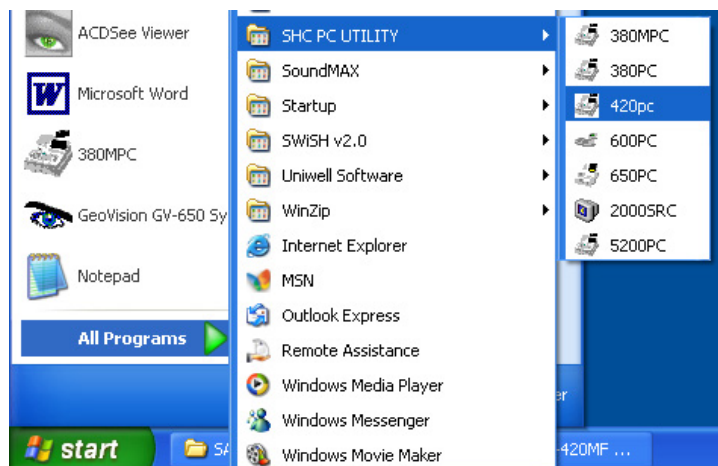
1. Turn the Mode switch to Service Mode (S) position.
 2. Press 80 (For Serial Port# 1 on ER-420MF Machine)
 3. Press Sub-Total
 4. Press Cash/Tend key to print out a port allocation table.
(The following steps will teach you how to allocate port for Scanner):
 5. Press 80
 6. Press Sub-Total
 7. Press 5 (For Device Function)
 8. Press X/TIME
 9. Press 6 (To use scanner)
 10. Press Cash/Tend
 11. Press Cash/Tend again to save the settings
-

2) Configuring a System Option to use Embedded Barcodes:

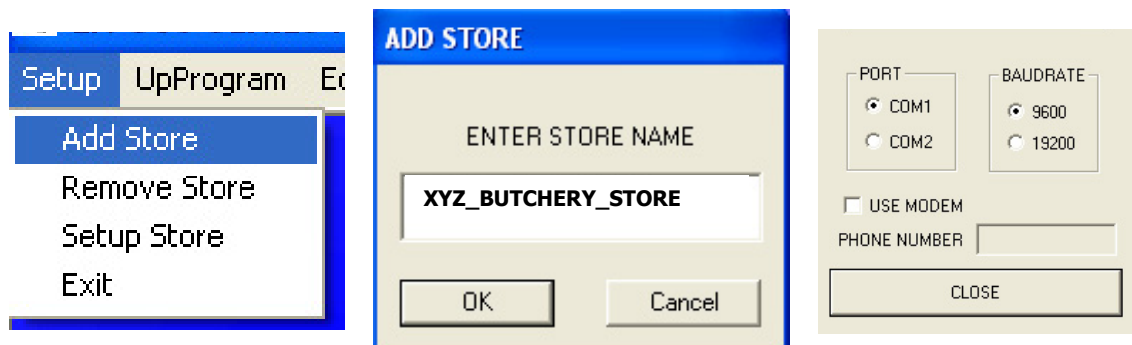
1. Turn the Mode switch to Program Mode (P or PGM) position.
2. Press 30 (For System Option)
3. Press Sub-Total
4. Press 31 (System Option Address for Price Embedded)
5. Press X/TIME
6. Press 1 **or** 3 **or** 4 (For Price Embedded)
7. Press Sub-Total
8. Press Cash/Tend to save settings

After Allocating port for scanner connect your ER-420/420MF Machine with a PC using a Serial communication cable and then run a software utility and create a new store for "XYZ BUTCHERY STORE" then use UpProgram first to upload from cash register to a software utility as you can see the steps on a following images:

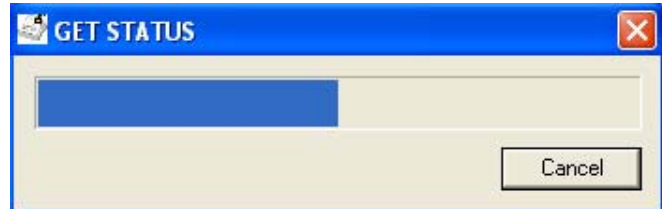
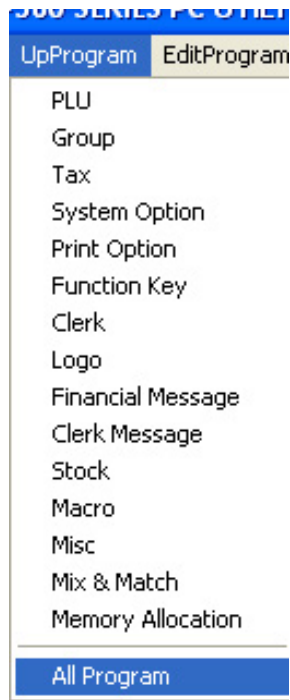
STEP-1: On your windows Click Start => All Programs => SHC PC Utility => 420PC



STEP-2: On your ER-420 PC utility Click Setup => Add Store and type XYZ_Butchery_Store as a Store name and Click OK and Press Close on a Store Setting window.

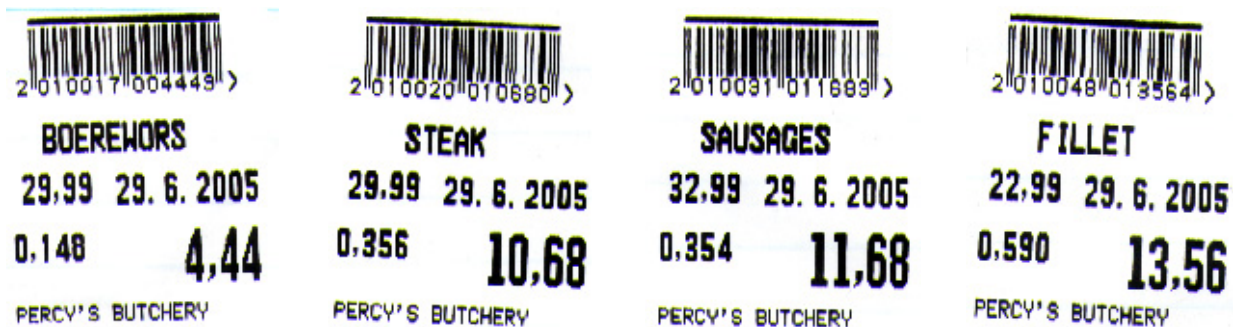


STEP-3: After creating a store you have to Click UpProgram => All Program to upload from a ER-420 Cash Register to a ER-420 PC Utility



3) Creating a Complete PLU Program with their barcode numbers:

The following are the barcodes, which is using Embedded barcode:



2 010058 019999 >
MINCE MEAT
 23,99 29. 6. 2005
 0,000 **19,38**
 PERCY'S BUTCHERY

2 010067 020154 >
T BONE
 34,99 29. 6. 2005
 0,576 **20,15**
 PERCY'S BUTCHERY

2 010070 018341 >
GOULASH
 23,99 29. 6. 2005
 0,556 **13,34**
 PERCY'S BUTCHERY

2 010082 014459 >
BRISKET
 25,99 29. 6. 2005
 0,556 **14,45**
 PERCY'S BUTCHERY

2 010095 011964 >
CHUCK
 33,99 29. 6. 2005
 0,352 **11,96**
 PERCY'S BUTCHERY

2 010109 031681 >
BILTONG
 90,00 29. 6. 2005
 0,352 **31,68**
 PERCY'S BUTCHERY

2 010110 015939 >
CHICKEN PIECES
 45,00 29. 6. 2005
 0,354 **15,93**
 PERCY'S BUTCHERY

2 010133 008444 >
FISH
 23,99 29. 6. 2005
 0,352 **8,44**
 PERCY'S BUTCHERY

For creating a complete PLU Program Click on EditProgram => PLU as you can see on the following image:

UTILITY

EditProgram DownProgram

PLU

Group

Tax

System Option

PROGRAMMING PLU - Right click to delete an item.

CODE	DESCRIPTOR	PRICE1
1	PLU1	0.00
2	PLU2	0.00
3	PLU3	0.00
4	PLU4	0.00
5	PLU5	0.00
6	PLU6	0.00
7	PLU7	0.00
8	PLU8	0.00
9	PLU9	0.00
10	PLU10	0.00
11	PLU11	0.00
12	PLU12	0.00

TOTAL PLU#: 12

PLU CODE:

DESCRIPTOR:

GROUP:

PRICE1:

PRICE2:

PRESET ☒ PRESET OVERRIDE ☒

TAXABLE BY: ☐ 1 ☐ 2 ☐ 3 ☐ 4

FOOD STAMP ELIGIBLE ☐

HASH ITEM ☐

NON ADD # COMP ☐

INVENTORY ITEM ☐

SCALABLE ☐

CONDIMENT ITEM ☐

PRINT ON RECEIPT ☒

PRINT PRICE ON RECEIPT ☒

DISABLE PROMO ☐

NEGATIVE ITEM ☐

SINGLE ITEM ☐

GALLONAGE ITEM ☐

DISABLE ☐

AUTO SCALE ☐

CONDIMENT COMP. ☐

PRINT ON CHECK ☒

PRINT PRICE ON CHECK ☒

COUNTER NOT RESET ☐

PRESET OVERRIDE IN MGR MODE ☐

LINK PLU CODE:

AUTO TARE:

MIX & MATCH #:

SAVE & EXIT

SAVE & NEW

CANCEL

On a PLU window select PLU and on a PLU code put your pointer and Scan the item using a PC scanner and Put descriptors for a PLU items and don't put a price because it is going to pickup the price through its barcode number when you scan the Item on ER-420MF machine (Price Embedded Barcodes). Once you programmed all your items on PLU windows click save and exit.

Scan the item using a PC Scanner

an item.

TOTAL PLU# : 92

PLU CODE:

DESCRIPTOR:

GROUP:

PRICE1:

PRESET ☒ PRESET OVERRIDE ☒

TAXABLE BY: ☐ 1 ☐ 2 ☐ 3 ☐ 4

FOOD STAMP ELIGIBLE ☐ NEGATIVE ITEM ☐

SAVE & EXIT

SAVE & NEW

CANCEL

2010017000001	BOEREWORS	0.00
2010020000001	STEAK	0.00
2010031000005	SAUSAGES	0.00
2010048000007	FILLET	0.00
2010058000008	MINCE MEAT	0.00
2010067000006	T-BONE	0.00
2010070000006	GOULASH	0.00
2010082000003	BRISKET	0.00
2010095000003	CHUCK	0.00
2010109000009	BILTONG	0.00
2010110000003	CHICKEN PIE...	0.00
2010133000004	FISH	0.00

Once you configured everything according to their needs, then you have to use DownProgram => AllProgram to download every settings which you did on a PC Utility to ER-420/420MF Machine.

Next we are going to learn from the following examples, how we are going to use the machine when any customer comes to the store.

Example:

The Customer came to the XYZ Butchery Store and asks for a packet of Mince Meat:

1. Turn the Mode switch to Register Mode (R or REG.) position.
2. Scan the item from Cash register using scanner



3. It's going to pick up the Price through its Barcode Number
4. Press Cash/Tend (to finalize the transaction)

Fast Food Solution

(and Kitchen Printer)

XYZ Fast Food is a Food Place. They are making all the fast food items like Burgers, Sandwiches, Chips etc. etc. and they got a kitchen also where they prepare the food according to the order. Some of the people they eat food on the spot, some take takeaways and they got Drive-Thru facility also. So they wanted a cash register, which can handle the fast food services and the kitchen printer also which going to be resides in a kitchen and all the order for preparing food will go to the kitchen printer to give them a instructions also if the food is for Eat-In, Take-Away or Drive-Thru.

Task:

For XYZ Fast Food we need to configure the ER-420/420MF Machine to meet their requirements. We need to allocate port for a Printer first because we are going to use Kitchen Printer, which will goes to the kitchen. Then we are going to use PC-Utility to configure the ER-420/420MF Machine. First we have to select Kitchen Printer (KP) Port on a Group then we will program all the PLU, which is going to be linked with that Group, which got KP Printer. Then we have to allocate key on an ER-420MF Machine for Eat-In, Take-Away and Drive-Thru.

Procedure:

1. Allocating Port for a Kitchen Printer on ER-420MF Machine.
 2. Configuring a Group1 and selecting Kitchen Printer (KP).
 3. Creating a Complete PLU Program and linking Group1.
 4. Allocating Keys for Eat-In, Take-Away and Drive-Thru.
-

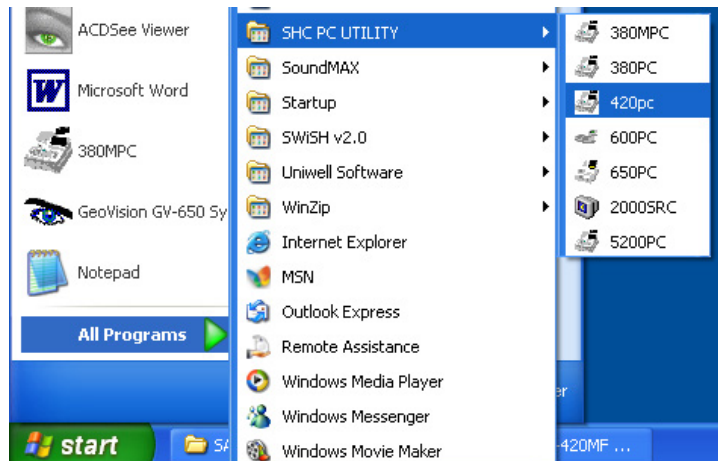
Solutions:

1) Allocating Port for a Kitchen Printer on ER-420MF Machine:

1. Turn the Mode switch to Service Mode (S) position.
2. Press 80 (For Serial Port# 1 on ER-420MF Machine)
3. Press Sub-Total
4. Press Cash/Tend key to print out a port allocation table.
(The following steps will teach you how to allocate port for KP-Kitchen Printer):
5. Press 80
6. Press Sub-Total
7. Press 5 (For Device Function)
8. Press X/TIME
9. Press 4 (To use RP-Remote Printer, which is going to be our Kitchen Printer)
10. Press 11
11. Press X/TIME
12. Press 8 (For Printer Type="Epson T-T88-2")
In this Example we are using Epson Printer so we have selected Epson printer on Printer Type, it depends which printer you going to use, so on printer type you have to select the printer name which printer you are going to use on your side.
13. Press Cash/Tend
14. Press Cash/Tend again to save the settings

After Allocating port for Printer connect your ER-420/420MF Machine with a PC using a Serial communication cable and then run a software utility and create a new store for "XYZ Fast Food" then use UpProgram first to upload from cash register to a software utility as you can see the steps on a following images:

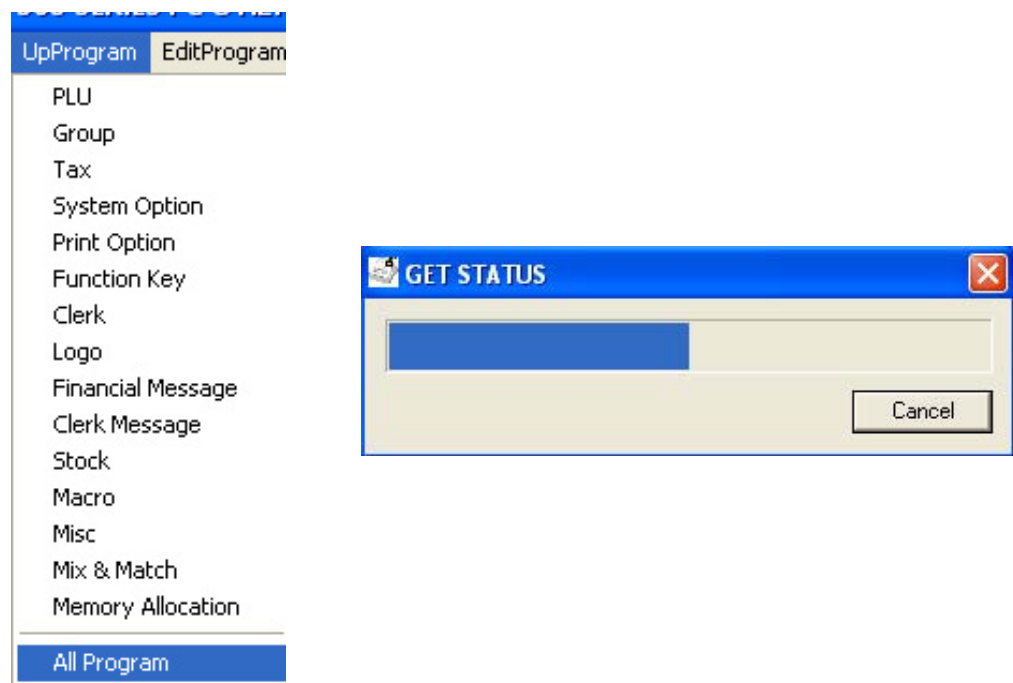
STEP-1: On your windows Click Start => All Programs => SHC PC Utility => 420PC



STEP-2: On your ER-420 PC utility Click Setup => Add Store and type XYZ_FAST_FOOD as a Store name and Click OK and Press Close on a Store Setting window.

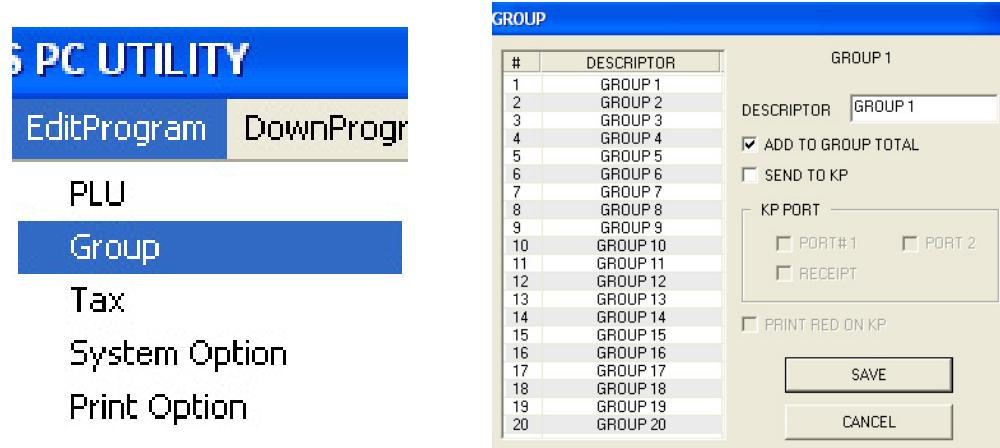


STEP-3: After creating a store you have to Click UpProgram => All Program to upload from a ER-420 Cash Register to a ER-420 PC Utility

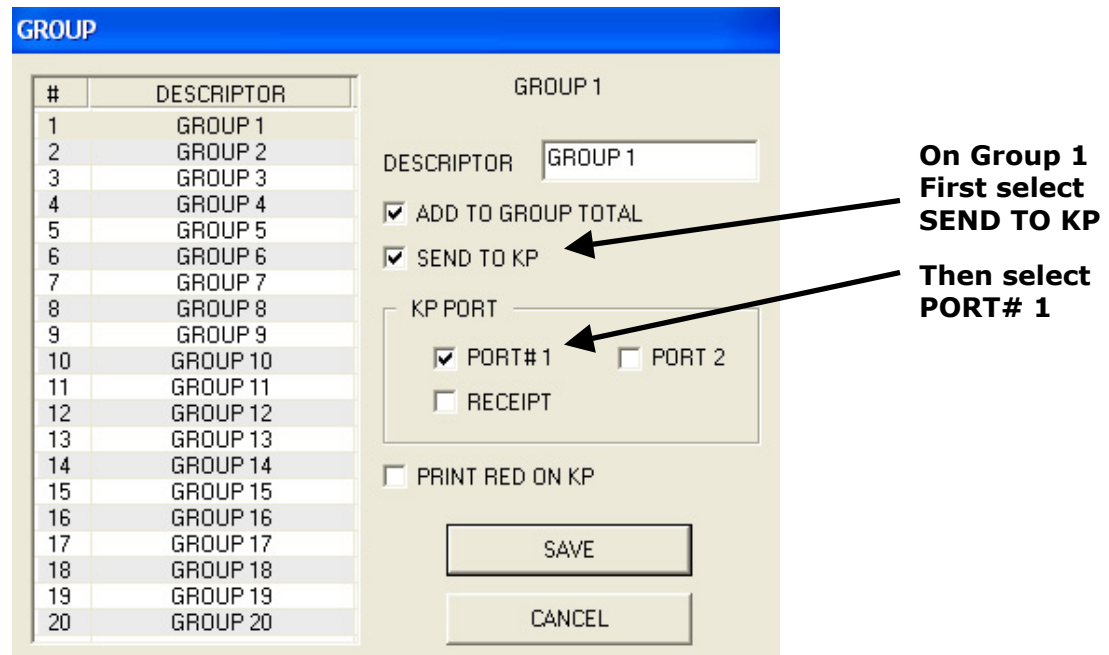


2) Configuring a Group1 and selecting Kitchen Printer (KP):

To Configure a Groups Click EditProgram => Group as you can see on the following image:



On a Group window select Group 1 and select Send to KP and then select Port#1 because we are using Printer on Port1. Once you finish configure port click save as you can see on the following image:



3) Creating a Complete PLU Program and linking Group1:

For creating a complete PLU Program Click on EditProgram => PLU as you can see on the following image:

The screenshot shows the 'PROGRAMMING PLU - Right click to delete an item.' window. On the left, a 'UTILITY' menu has 'EditProgram' selected, with a sub-menu showing 'PLU', 'Group', 'Tax', and 'System Option'. The main area contains a table with 12 rows, each representing a PLU item. The table has columns for CODE, DESCRIPTOR, and PRICE1. The right panel contains configuration options for the selected PLU.

CODE	DESCRIPTOR	PRICE1
1	PLU1	0.00
2	PLU2	0.00
3	PLU3	0.00
4	PLU4	0.00
5	PLU5	0.00
6	PLU6	0.00
7	PLU7	0.00
8	PLU8	0.00
9	PLU9	0.00
10	PLU10	0.00
11	PLU11	0.00
12	PLU12	0.00

Configuration panel (TOTAL PLU#: 12):

- PLU CODE: 1
- DESCRIPTOR: PLU1
- GROUP: 1 0 0
- PRICE1: 0.00
- PRICE2: 0.00
- PRESET: ☒ PRESET OVERRIDE: ☒
- TAXABLE BY: 1 ☐ 2 ☐ 3 ☐ 4 ☐
- FOOD STAMP ELIGIBLE: ☐ HASH ITEM: ☐ NON ADD # COMP.: ☐ INVENTORY ITEM: ☐ SCALABLE: ☐ CONDIMENT ITEM: ☐ PRINT ON RECEIPT: ☒
- NEGATIVE ITEM: ☐ SINGLE ITEM: ☐ GALLONAGE ITEM: ☐ DISABLE: ☐ AUTO SCALE: ☐ CONDIMENT COMP.: ☐ PRINT ON CHECK: ☒
- DISABLE PROMO: ☐ PRINT PRICE ON CHECK: ☒ COUNTER NOT RESET: ☐ PRESET OVERRIDE IN MGR MODE: ☐
- LINK PLU CODE: 0
- AUTO TARE: 0
- MIX & MATCH #: 0

Buttons: SAVE & EXIT, SAVE & NEW, CANCEL

On a PLU window select PLU's and put a descriptor and a Price of that item and then make sure that all the PLU is linked to Group1 because we have selected KP on Group1. Once you programmed all your items on PLU windows click save and exit as you can see on following image.

The screenshot shows the 'PROGRAMMING PLU - Right click to delete an item.' window with the configuration panel. The 'Burger' item is selected with a price of 10.00.

Configuration panel (TOTAL PLU#: 12):

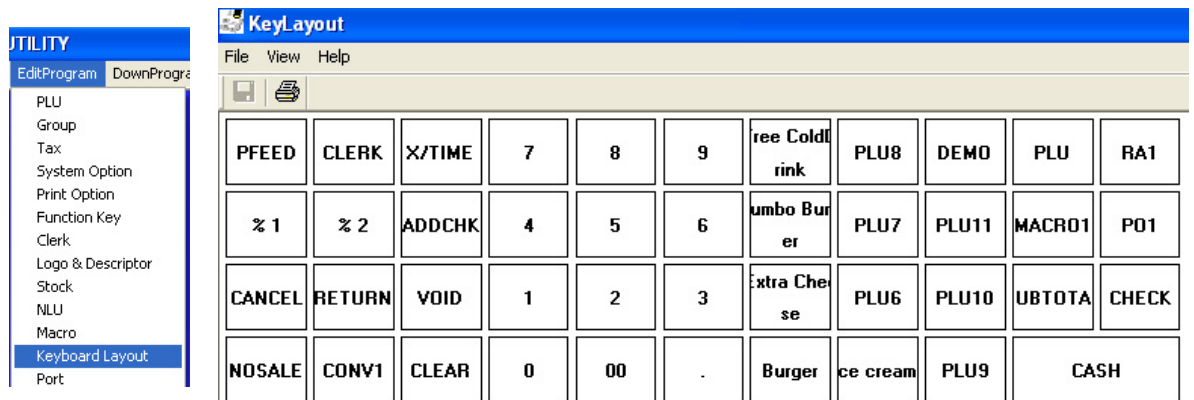
- PLU CODE: 1
- DESCRIPTOR: Burger
- GROUP: 1 0 0
- PRICE1: 10.00
- PRICE2: 0.00
- PRESET: ☒ PRESET OVERRIDE: ☒
- TAXABLE BY: 1 ☐ 2 ☐ 3 ☐ 4 ☐

Buttons: SAVE & EXIT, SAVE & NEW, CANCEL

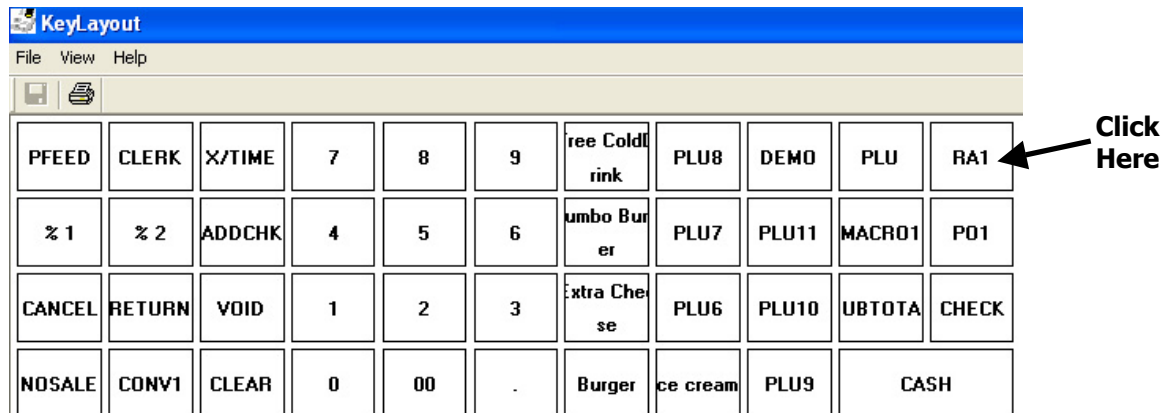
4) Allocating Keys for Eat-In, Take-Away and Drive-Thru:

The following steps going to show how to allocate keys for Eat-In, Take Away and Drive-Thru:

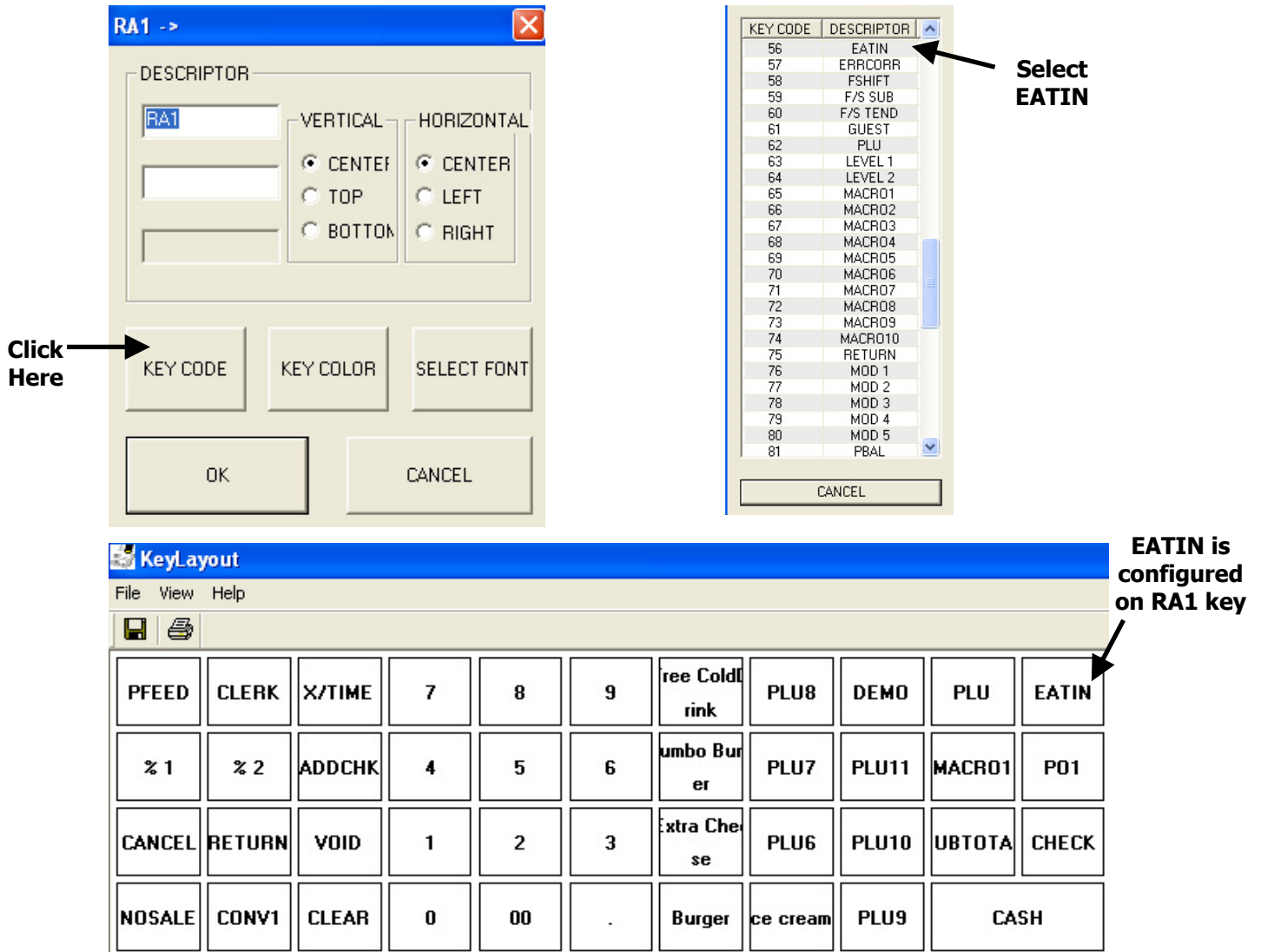
STEP-1: Click EditProgram => Keyboard Layout as you can see on the following image:



STEP-2: Click RA1 Key on Keyboard Layout as you can see on the following image:



STEP-3: After clicking on the RA1 Key on Keyboard Layout the RA1 windows going to appear then click KEY CODE and select EATIN and then click OK as you can see on the following image:



STEP-4: After allocating key for EATIN we need to allocate key for TAKE-OUT also so in the following example we are going to allocate TAKE-OUT key on PO1-Paid out key.

KeyLayout
File View Help

PFEED	CLERK	X/TIME	7	8	9	Free Cold Drink	PLU8	DEMO	PLU	EATIN
% 1	% 2	ADDCHK	4	5	6	Jumbo Burger	PLU7	PLU11	MACRO1	P01
CANCEL	RETURN	VOID	1	2	3	Extra Cheese	PLU6	PLU10	UBTOTA	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Burger	Ice cream	PLU9	CASH	

Click Here

P01 ->

DESCRIPTOR

PAID

OUT

VERTICAL

☒ CENTER

☐ TOP

☐ BOTTOM

HORIZONTAL

☒ CENTER

☐ LEFT

☐ RIGHT

KEY CODE

KEY COLOR

SELECT FONT

OK

CANCEL

Click Here

P01 ->

KEY CODE	DESCRIPTOR
84	P03
85	PFEED
86	PRINT CHK
87	PROMO
88	RA1
89	RA2
90	RA3
91	SUBTOTAL
92	SCALE
93	SERVICE
94	TABLE
95	TARE
96	TKOUT
97	TAXEXMT
98	TAX1
99	TAX2
100	TAX3
101	TAX4
102	TIP
103	VOID
104	WASTE
105	VALIDATION
106	PAYMENT
107	RCPT ON/O...
108	INACTIVE
109	NONADD #

CANCEL

Select Tkout

KeyLayout
File View Help

PFEED	CLERK	X/TIME	7	8	9	Free Cold Drink	PLU8	DEMO	PLU	EATIN
% 1	% 2	ADDCHK	4	5	6	Jumbo Burger	PLU7	PLU11	MACRO1	TKOUT
CANCEL	RETURN	VOID	1	2	3	Extra Cheese	PLU6	PLU10	UBTOTA	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Burger	Ice cream	PLU9	CASH	

TAKE-OUT is configured on P01 key

STEP-5: After allocating key for TAKE-OUT we need to allocate key for DRIVE-THRU also so in the following example we are going to allocate DRIVE-THRU key on CHECK key.

KeyLayout
File View Help

PFEED	CLERK	X/TIME	7	8	9	Free Cold Drink	PLU8	DEMO	PLU	EATIN
% 1	% 2	ADDCHK	4	5	6	umbo Burger	PLU7	PLU11	MACR01	P01
CANCEL	RETURN	VOID	1	2	3	Extra Cheese	PLU6	PLU10	UBTOTA	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Burger	ice cream	PLU9	CASH	

CHECK ->

DESCRIPTOR
CHECK

VERTICAL
☐ CENTER
☐ TOP
☐ BOTTOM

HORIZONTAL
☐ CENTER
☐ LEFT
☐ RIGHT

KEY CODE KEY COLOR SELECT FONT

OK CANCEL

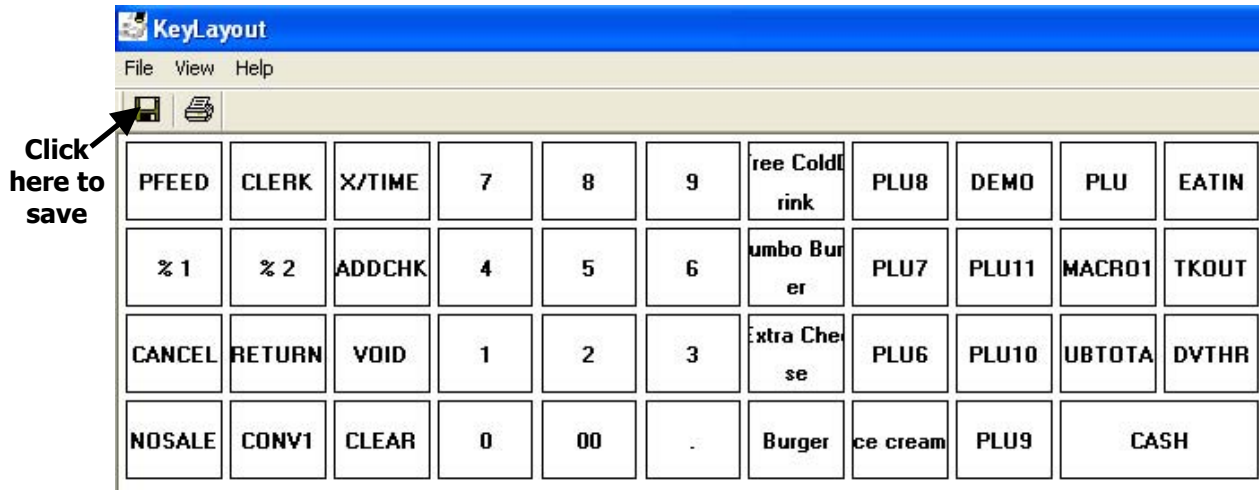
KEY CODE	DESCRIPTOR
48	CHECK #
49	CLEAR
50	CLERK
51	CONV1
52	CONV2
53	CONV3
54	CONV4
55	DVTHRU
56	EATIN
57	ERRCORR
58	FSHIFT
59	F/S SUB
60	F/S TEND
61	GUEST
62	PLU
63	LEVEL 1
64	LEVEL 2
65	MACR01
66	MACR02
67	MACR03
68	MACR04
69	MACR05
70	MACR06
71	MACR07
72	MACR08
73	MACR09

CANCEL

KeyLayout
File View Help

PFEED	CLERK	X/TIME	7	8	9	Free Cold Drink	PLU8	DEMO	PLU	EATIN
% 1	% 2	ADDCHK	4	5	6	umbo Burger	PLU7	PLU11	MACR01	TKOUT
CANCEL	RETURN	VOID	1	2	3	Extra Cheese	PLU6	PLU10	UBTOTA	DVTHRU
NOSALE	CONV1	CLEAR	0	00	.	Burger	ice cream	PLU9	CASH	

Once you allocate the key for EAT-IN, TAKE-OUT and DRIVE-THRU then you have to save the settings as you can see on the following image.



Once you configured everything according to their needs, then you have to use DownProgram => AllProgram to download every settings which you did on a PC Utility to ER-420/420MF Machine.

Next we are going to learn from the following examples, how we are going to use the machine when any customer comes to the shop.

Example-1:

The Customer came to the XYZ Fast Food and ordered one Combo Burger and he wanted to Eat-In:

1. Turn the Mode switch to Register Mode (R or REG.) position.
2. Press PLU3 (because he ordered Combo Burger)
3. Press Eat-In key (because he wanted to eat in a shop)
4. Press Cash/Tend

(It is going to print a slip and also a order goes to the kitchen Printer giving EAT-IN instruction and to prepare 1 x Combo Burger)

Example-2:

The Customer came to the XYZ Fast Food and ordered one Combo Burger and he wanted a Take-Away:

1. Turn the Mode switch to Register Mode (R or REG.) position.
2. Press PLU3 (because he ordered Combo Burger)
3. Press Eat-Out key (because he wanted Take-Away)
4. Press Cash/Tend

(It is going to print a slip and also a order goes to the kitchen Printer giving EAT-OUT instruction and to prepare 1 x Combo Burger)

Restaurant Solution

(and Table Tracking)

XYZ Restaurant got a Food Place and a Bar. They are making all types of food items like Burgers, Sandwiches, Curries, Platters, Meals, Grill etc. etc. and they got a kitchen also where they prepare the food according to the order. Plus they got a bar also where customers can order drinks. So they wanted a cash register, which can handle the food services with Table Tracking Tables and Memory Billing and two kitchen printer also one is going to be resides in a kitchen and one is in a Bar side.

Task:

For XYZ Restaurant we need to configure the ER-420/420MF Machine to meet their requirements. We need to allocate port for Printers first because they are going to use Kitchen Printers. One Printer they are going to use in kitchen and one printer will be installed in a bar. Then we are going to use PC-Utility to configure the ER-420/420MF Machine. First we have to configure two Groups one Group is for Food & Beverages and we going to select KP Port#1 which is going to be in a Kitchen and second Group is for Bar and we going to select KP Port#2 which is going to be in a Bar.

Then we have to configure all the PLU and link the items to their respective group all the food items going to be linked with Group1, which is Food & Beverages and all the alcohols going to be linked with Group2, which is Bar.

After configuring all the items we need to allocate keys for Table Tracking and Memory Billing also, which is Table, Check#, Service, and Tips.

Procedure:

1. Allocating Ports for a Kitchen Printer on ER-420MF Machine.
2. Configuring Groups and selecting Kitchen Printer (KP).
3. Creating a Complete PLU Program and linking Groups.
4. Allocating keys for Table, Check#, Service and Tips.

Solutions:

1) Allocating Ports for a Kitchen Printer on ER-420MF Machine:

(Allocating Port1 for Printer that is going to be resides in a Kitchen)

1. Turn the Mode switch to Service Mode (S) position.
2. Press 80 (For Serial Port# 1 on ER-420MF Machine)
3. Press Sub-Total
4. Press Cash/Tend key to print out a port allocation table.
(The following steps will teach you how to allocate port for KP-Kitchen Printer):
5. Press 80
6. Press Sub-Total

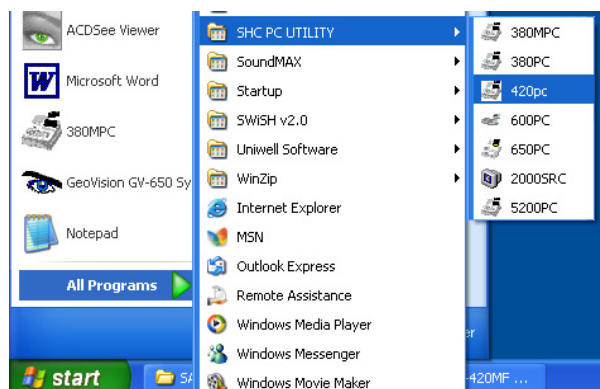
7. Press 5 (For Device Function)
8. Press X/TIME
9. Press 4 (To use RP-Remote Printer, which is going to be in a Kitchen)
10. Press 11
11. Press X/TIME
12. Press 8 (For Printer Type="Epson T-T88-2")
In this Example we are using Epson Printer so we have selected Epson printer on Printer Type, it depends which printer you going to use, so on printer type you have to select the printer name which printer you are going to use on your side.
13. Press Cash/Tend
14. Press Cash/Tend again to save the settings

(Allocating Port2 for Printer that is going to be resides in a Bar)

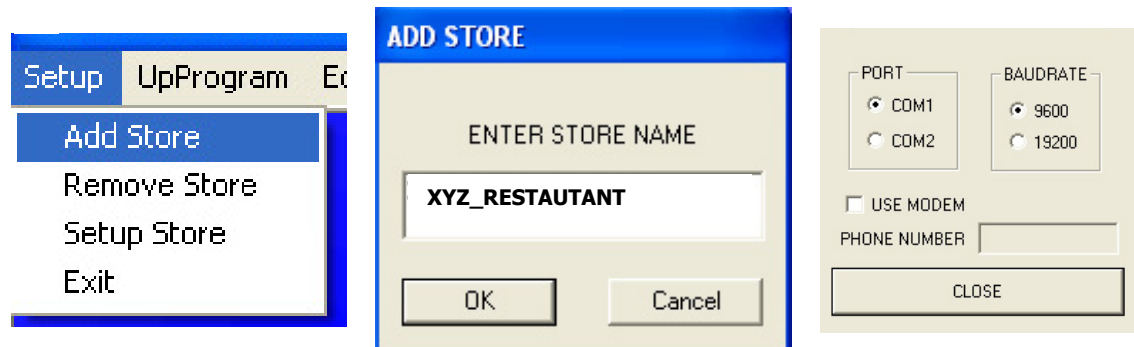
1. Press 81
2. Press Sub-Total
3. Press 5 (For Device Function)
4. Press X/TIME
5. Press 4 (To use RP-Remote Printer, which is going to be in a Bar)
6. Press 11
7. Press X/TIME
8. Press 8 (For Printer Type="Epson T-T88-2")
In this Example we are using Epson Printer so we have selected Epson printer on Printer Type, it depends which printer you going to use, so on printer type you have to select the printer name which printer you are going to use on your side.
9. Press Cash/Tend
10. Press Cash/Tend again to save the settings

After Allocating port for Printers connect your ER-420/420MF Machine with a PC using a Serial communication cable and then run a software utility and create a new store for "XYZ RESTAURANT" then use UpProgram first to upload from cash register to a software utility as you can see the steps on a following images:

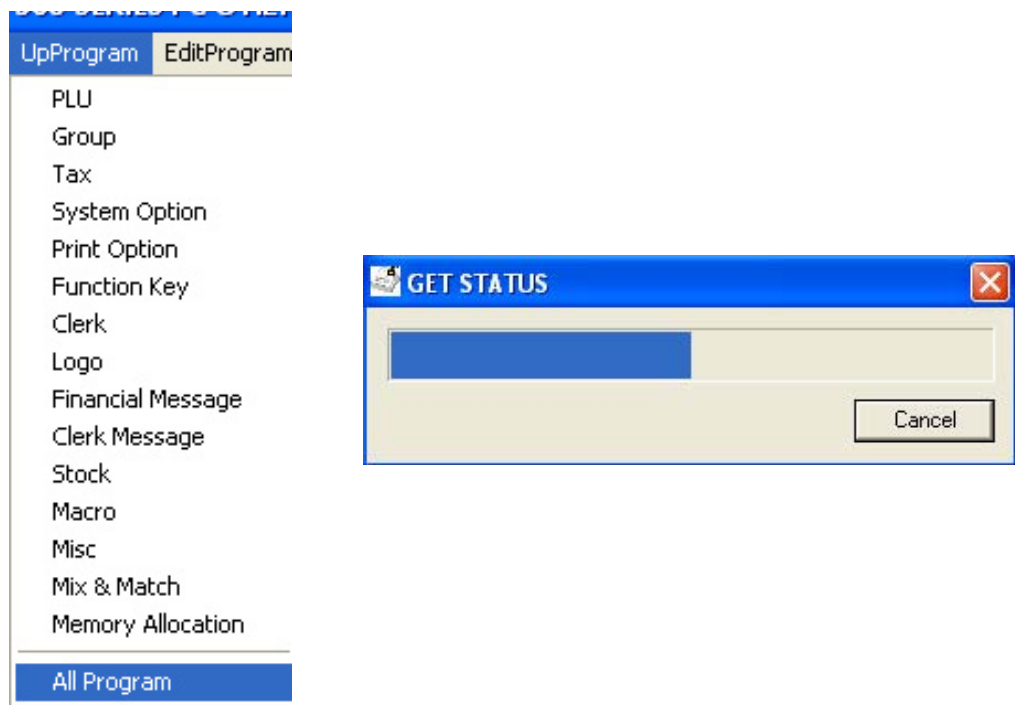
STEP-1: On your windows Click Start => All Programs => SHC PC Utility => 420PC



STEP-2: On your ER-420 PC utility Click Setup => Add Store and type XYZ_RESTAURANT as a Store name and Click OK and Press Close on a Store Setting window.

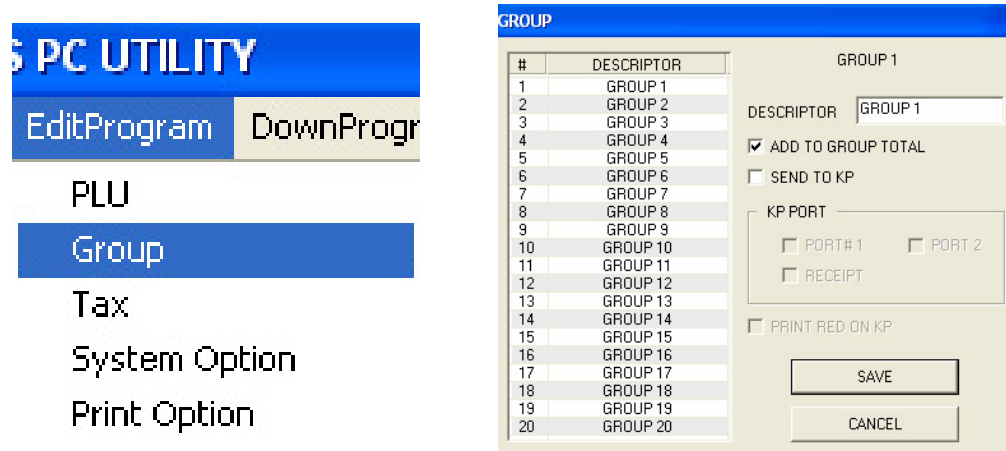


STEP-3: After creating a store you have to Click UpProgram => All Program to upload from a ER-420 Cash Register to a ER-420 PC Utility

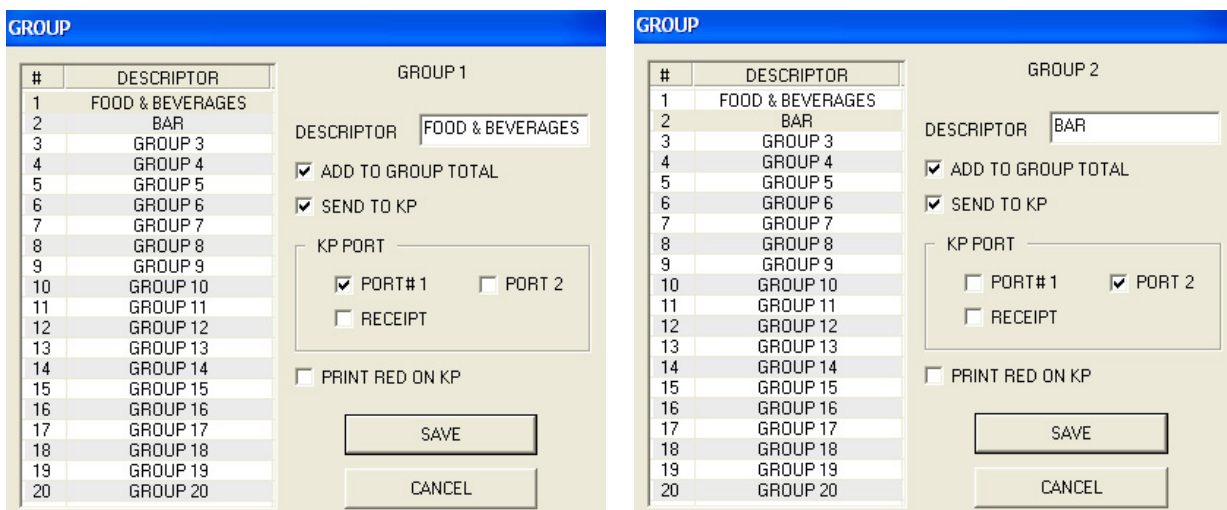


2) Configuring Groups and selecting Kitchen Printer (KP):

To Configure a Groups Click EditProgram => Group as you can see on the following image:



On a Group window select Group 1 and put Descriptor as FOOD & BEVERAGES and select Send to KP and then select Port#1 because we are going to use Printer on Port1 which is going to be in a Kitchen and then select Group 2 and put Descriptor as BAR and select Send to KP and then select Port#2 because we are going to use Printer on Port2 which is going to be in a Bar. Once you finish configure port click save as you can see on the following image:



3) Creating a Complete PLU Program and linking Groups:

For creating a complete PLU Program Click on EditProgram => PLU as you can see on the following image:

The screenshot shows the 'PROGRAMMING PLU' window. On the left, a 'UTILITY' menu has 'EditProgram' selected, which has opened a sub-menu with 'PLU' highlighted. The main window contains a table with 12 rows, each representing a PLU item. The table has columns for CODE, DESCRIPTOR, and PRICE1. The first 12 rows are pre-filled with codes 1 through 12 and descriptors PLU1 through PLU12, all with a price of 0.00. To the right of the table is a configuration panel for the selected PLU (PLU1). This panel includes fields for PLU CODE, DESCRIPTOR, GROUP, PRICE1, and PRICE2. It also has checkboxes for PRESET, PRESET OVERRIDE, TAXABLE BY, and various item flags like FOOD STAMP ELIGIBLE, HASH ITEM, etc. At the bottom right, there are buttons for 'SAVE & EXIT', 'SAVE & NEW', and 'CANCEL'.

CODE	DESCRIPTOR	PRICE1
1	PLU1	0.00
2	PLU2	0.00
3	PLU3	0.00
4	PLU4	0.00
5	PLU5	0.00
6	PLU6	0.00
7	PLU7	0.00
8	PLU8	0.00
9	PLU9	0.00
10	PLU10	0.00
11	PLU11	0.00
12	PLU12	0.00

On a PLU window First Program all your food items and Beverages. To Program select PLU's and put a Descriptor and a Price of that item and then make sure that all these PLU's is linked to Group1 because on a Group1, which is "Food & Beverages" we have selected Printer on Port#1 that is going to the kitchen.

Next, On a PLU windows Program all your alcohols, spirits, beers etc. etc. To Program select PLU's and put a Descriptor and a Price of that item and then make sure that all these PLU's is linked to Group2 because on a Group2, which is "Food & Beverages" we have selected Printer on Port#2 that is going to the Bar.

Once you programmed all your items on PLU windows click save and exit as you can see on following image.

em.

TOTAL PLU# : 12

PLU CODE

4

DESCRIPTOR

Grilled Chicken

GROUP

1

0

0

PRICE1

15.00

PRICE2

0.00

PRESET ☒

PRESET OVERRIDE ☒

TAXABLE BY

1 ☐ 2 ☐ 3 ☐ 4 ☐

FOOD STAMP ELIGIBLE ☐

NON ADD # COMP. ☐

INVENTORY ITEM ☐

SCALABLE ☐

CONDIMENT ITEM ☐

PRINT ON RECEIPT ☒

PRINT PRICE ON RECEIPT ☒

DISABLE PROMO ☐

NEGATIVE ITEM ☐

SINGLE ITEM ☐

GALLONAGE ITEM ☐

DISABLE ☐

AUTO SCALE ☐

CONDIMENT COMP. ☐

PRINT ON CHECK ☒

PRINT PRICE ON CHECK ☒

COUNTER NOT RESET ☐

PRESET OVERRIDE IN MGR MODE ☐

SAVE & EXIT

SAVE & NEW

CANCEL

All Food items are grouped to Group1

em.

TOTAL PLU# : 12

PLU CODE

10

DESCRIPTOR

Castle

GROUP

2

0

0

PRICE1

9.50

PRICE2

0.00

PRESET ☒

PRESET OVERRIDE ☒

TAXABLE BY

1 ☐ 2 ☐ 3 ☐ 4 ☐

FOOD STAMP ELIGIBLE ☐

NON ADD # COMP. ☐

INVENTORY ITEM ☐

SCALABLE ☐

CONDIMENT ITEM ☐

PRINT ON RECEIPT ☒

PRINT PRICE ON RECEIPT ☒

DISABLE PROMO ☐

NEGATIVE ITEM ☐

SINGLE ITEM ☐

GALLONAGE ITEM ☐

DISABLE ☐

AUTO SCALE ☐

CONDIMENT COMP. ☐

PRINT ON CHECK ☒

PRINT PRICE ON CHECK ☒

COUNTER NOT RESET ☐

PRESET OVERRIDE IN MGR MODE ☐

SAVE & EXIT

SAVE & NEW

CANCEL

All Alcohols are grouped to Group2

4) Allocating keys for Table, Service, Check# and Tips:

The following steps going to show how to allocate keys for Table, Service, Check# and Tips:

STEP-1: Click EditProgram => Keyboard Layout as you can see on the following image:

UTILITY

EditProgram

DownProgram

PLU

Group

Tax

System Option

Print Option

Function Key

Clerk

Logo & Descriptor

Stock

NLU

Macro

Keyboard Layout

Port

KeyLayout

File View Help

PFEED

CLERK

X/TIME

7

8

9

ree Cold drink

PLU8

DEMO

PLU

RA1

% 1

% 2

ADDCHK

4

5

6

umbo Burger

PLU7

PLU11

MACRO1

P01

CANCEL

RETURN

VOID

1

2

3

Extra Cheese

PLU6

PLU10

UBTOTA

CHECK

NOSALE

CONV1

CLEAR

0

00

.

Burger

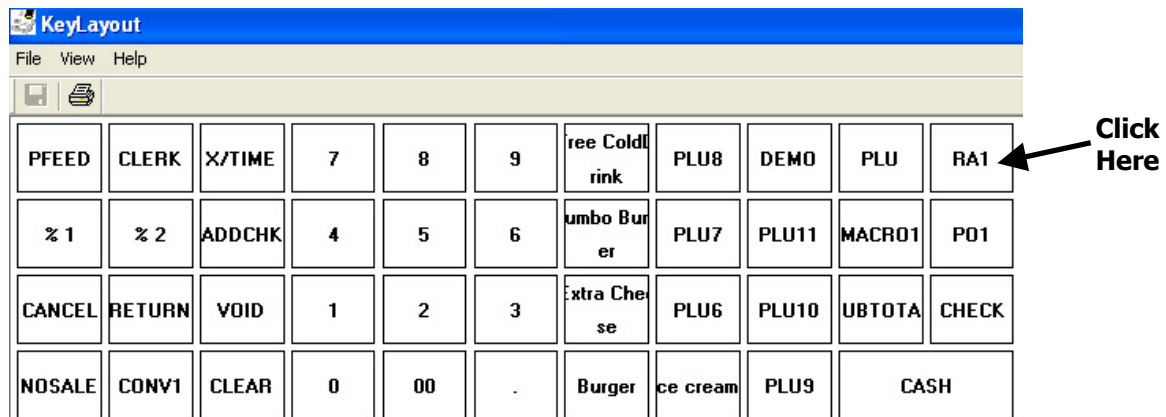
ice cream

PLU9

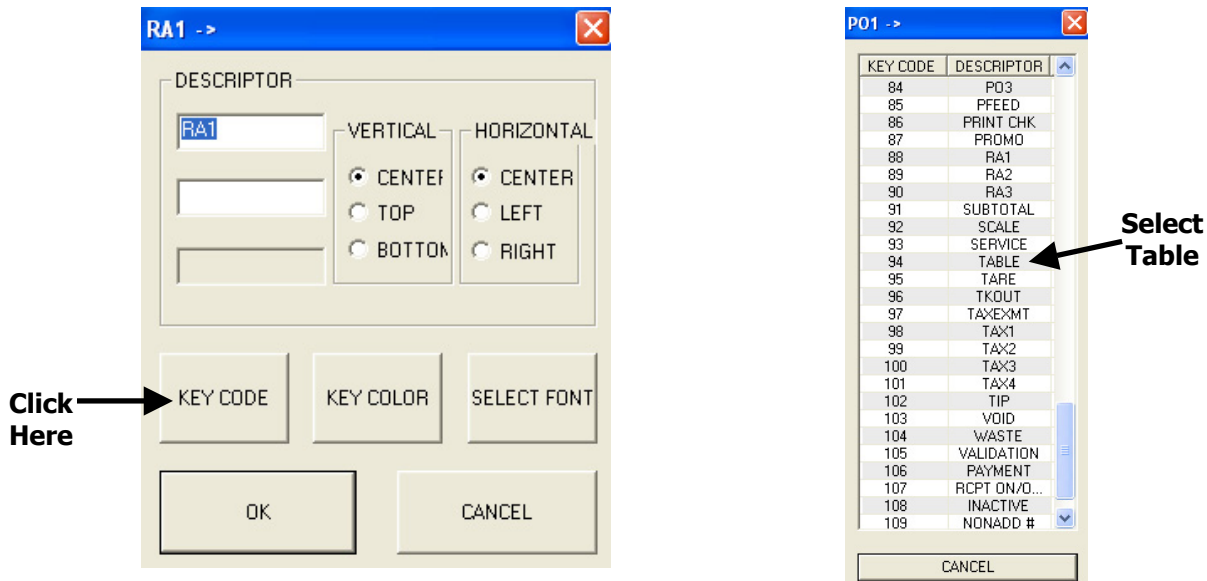
CASH

57

STEP-2: Click RA1 Key on Keyboard Layout as you can see on the following image:



STEP-3: After clicking on the RA1 Key on Keyboard Layout the RA1 windows going to appear then click KEY CODE and select TABLE and then click OK as you can see on the following image:



STEP-4: After allocating key for TABLE we need to allocate key for SERVICE also so in the following example we are going to allocate SERVICE key on PO1-Paid out key.

The image shows the KeyLayout software interface with three main components: the main keypad, a configuration dialog for the PO1 key, and a list of available keys.

Main Keypad: A 4x10 grid of keys. The 'TABLE' key in the first row, tenth column is highlighted with an arrow and the text 'Click Here'.

PO1 -> Configuration Dialog: A dialog box for configuring the PO1 key. It has a 'DESCRIPTOR' section with 'PAID' and 'OUT' entered. Below this are 'VERTICAL' and 'HORIZONTAL' orientation options, each with 'CENTER', 'TOP', 'BOTTOM', 'LEFT', and 'RIGHT' sub-options. At the bottom, there are buttons for 'KEY CODE', 'KEY COLOR', 'SELECT FONT', 'OK', and 'CANCEL'. An arrow points to the 'KEY CODE' button with the text 'Click Here'.

Key List: A list of keys with 'KEY CODE' and 'DESCRIPTOR' columns. The list includes keys 84 through 109. The 'SERVICE' key (code 93) is highlighted with an arrow and the text 'Select Service'.

Updated Main Keypad: The same 4x10 grid as before, but now the 'SERVICE' key is assigned to the 'PO1' position (second row, tenth column). An arrow points to this key with the text 'SERVICE is configured on PO1 key'.

STEP-5: After allocating key for SERVICE we need to allocate key for Check# also so in the following example we are going to allocate Check# key on Check key.

KeyLayout
File View Help

PFEED	CLERK	X/TIME	7	8	9	Grilled Chicken	/veg. Curry	Hansa	PLU	TABLE
% 1	% 2	ADDCHK	4	5	6	umbo Burger	Chicken Curry	Hunters D	MACRO1	SERVICE
CANCEL	RETURN	VOID	1	2	3	Chi. Cheese Burger	Grilled Lamb	Castle	UBTOTAL	CHECK
NOSALE	CONV1	CLEAR	0	00	.	Beef Burger	Grilled Beef	Lamb Curry	CASH	

Click Here

CHECK ->

DESCRIPTOR

CHECK

VERTICAL HORIZONTAL

☒ CENTER ☒ CENTER

☐ TOP ☐ LEFT

☐ BOTTOM ☐ RIGHT

KEY CODE KEY COLOR SELECT FONT

OK CANCEL

Click Here

KEY CODE	DESCRIPTOR
48	CHECK #
49	CLEAR
50	CLERK
51	CONV1
52	CONV2
53	CONV3
54	CONV4
55	DVTHR
56	EATIN
57	ERRCORR
58	FSHIFT
59	F/S SUB
60	F/S TEND
61	GUEST
62	PLU
63	LEVEL 1
64	LEVEL 2
65	MACRO1
66	MACRO2
67	MACRO3
68	MACRO4
69	MACRO5
70	MACRO6
71	MACRO7
72	MACRO8
73	MACRO9

CANCEL

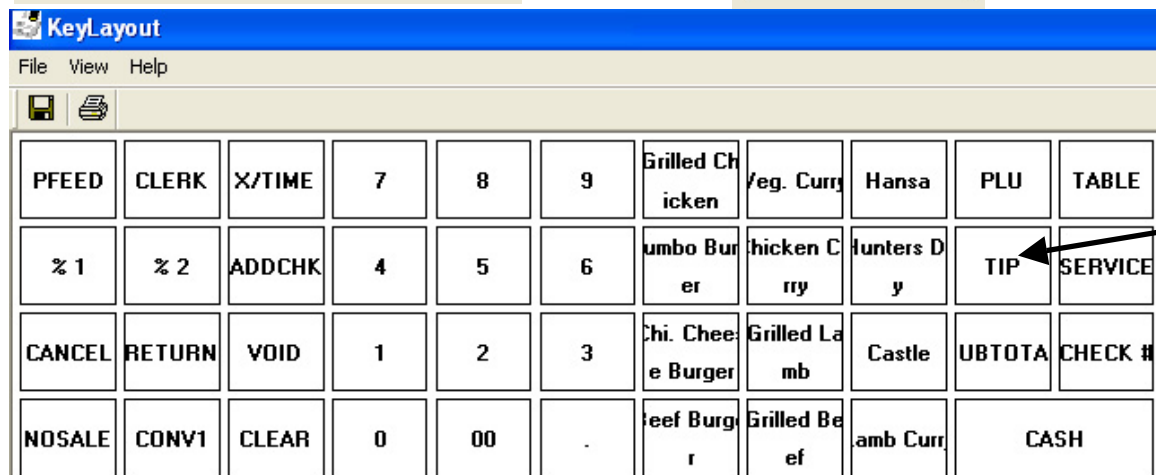
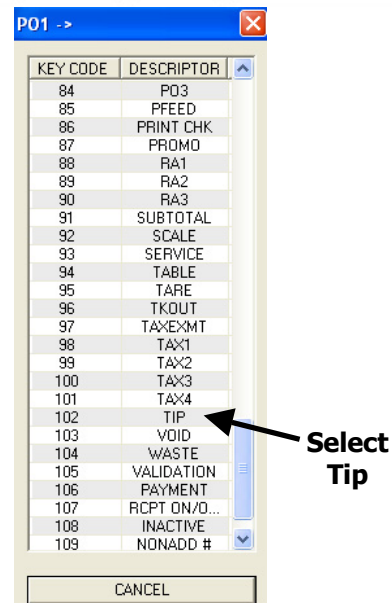
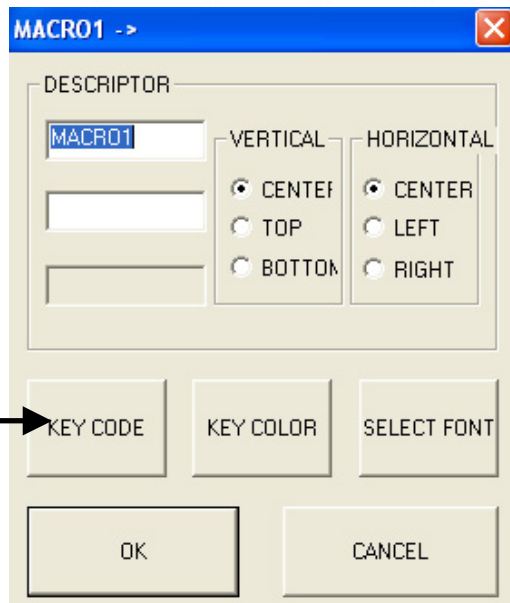
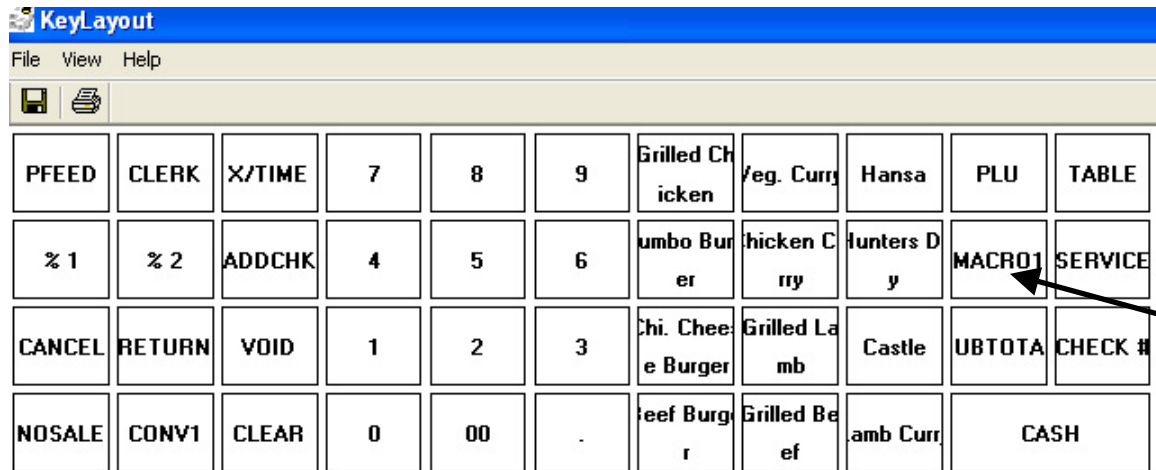
Select Check#

KeyLayout
File View Help

PFEED	CLERK	X/TIME	7	8	9	Grilled Chicken	/veg. Curry	Hansa	PLU	TABLE
% 1	% 2	ADDCHK	4	5	6	umbo Burger	Chicken Curry	Hunters D	MACRO1	SERVICE
CANCEL	RETURN	VOID	1	2	3	Chi. Cheese Burger	Grilled Lamb	Castle	UBTOTAL	CHECK #
NOSALE	CONV1	CLEAR	0	00	.	Beef Burger	Grilled Beef	Lamb Curry	CASH	

CHECK# is configured on CHECK

STEP-6: After allocating key for Check# we need to allocate key for TIP also so in the following example we are going to allocate TIP key on Macro1 key.



Once you allocate the key for TABLE, SERVICE, CHECK# and TIP then you have to save the settings as you can see on the following image.



Once you configured everything according to their needs, then you have to use DownProgram => AllProgram to download every settings which you did on a PC Utility to ER-420/420MF Machine.

Next we are going to learn from the following example, how we are going to use the machine when any customer comes to the shop.

Example:

A family booked a table for three persons came to the XYZ Restaurant and ordered one Beef Burger, One Grilled Chicken, one Vegetable Curry and three Castle:

1. Turn the Mode switch to Register Mode (R or REG.) position.
2. Press 1
3. Press Table Key (Opening Table-1)
4. Press 1
5. Press Check# key (Open Check# for Track Billing)
6. Press PLU1 (For Beef Burger)
7. Press PLU4 (For Grilled Chicken)
8. Press PLU8 (For Veg. Curry)
9. Press 3
10. Press X/TIMES
11. Press PLU10 (For three Castle)
12. Press Service Key
(When service key is pressed the order for food goes to kitchen (Printer) and order for drinks goes to Bar (Printer), because the ER-420MF machine got 2 printer one is in kitchen and one is at Bar.)
Then again they wanted two Castle then,
13. Press 1
14. Press Table key (Its going to show you a Previous Balance for Table 1)
15. Press 2
16. Press X/TIME
17. Press PLU10 (For two Castle)
18. Press Service (the order will goes to the Bar printer)
Next they wanted to pay and putting R10.00 as a TIP
19. Press 1 => Table, Press Sub-Total and then Press 10.00 => Press TIP Key
20. Press Cash/Tend (Its going to Print a slip for Table1)