

# WELCOME TO *BASYS POINT*

*"GET THE WHOLE PICTURE"*

The Basys Point Models 211, 311 and 411 are each a unique combination of the power incorporating the information output of a personal computer and the ease-of-use of a bond-trading calculator.

The program system has been designed to take advantage of a graphics display technology just like you have on your PC. Thus, you see all the input while evaluating the output. Many of the functions which are familiar to you on your current bond calculator work in a "standard" fashion, but you will soon notice that achieving basic results no longer requires redundant operations.

The calculator system has been designed around what is a familiar and quickly understood keyboard with very recognizable key legends. The location of the keys has been given extensive thought and planning to make your learning time very short.

You will very quickly see that many single key functions on the BASYS POINT invoke functions that require several key strokes on other present day bond calculators. Not only are the key functions simpler, but the display details the entire trade while allowing you to select adjunct functions which appear in non-obstructive windows.

Many new users of our product are quite amazed by the simplicity of operation, while at the same time, discovering that the BASYS POINT has features that make it revolutionary in the industry.

Welcome to the fast growing group of the Basys Point users and remember that at any time you need assistance just call us at

**1-800-360-DAYS.**

Thank you for choosing Basys Point

Will Jacobs  
President

# WELCOME TO *BASYS POINT*

## *SERIES 211, 311, 411*

### A couple of quick items for the new user

- When you plug in the *BASYS POINT*, you may want to re-set the time to your local time. It is very simple, just follow the instructions given on the screen and you'll have no problems.
- You may also want to adjust the contrast of your display. Press the <DISPLAY> and follow the instructions to *increase or decrease* the contrast. You can adjust the contrast at any time you choose.
- A new feature, just added, is the ability to set the beeper level to OFF/LOW/HIGH. You can also set the screen to have either BLUE or WHITE background. Press the <SETUP> or <SPCL FNCT> and <2> <2>, then select the feature.
- ***DO NOT CHANGE THE KEYBOARD MAPPING***

The <SETUP>/<SPCL FNCT> lists have been divided into sets of easy to use parameters which will help you customize the system. You may however, never use these functions but there worth a look, just in case.

**Remember that at any time you need assistance just call us at**

**1-800-360-DAYS.**

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## GENERAL OPERATIONS

### LET'S GET STARTED

Plug the *BASYS POINT* into the adapter and the wall outlet (of course). The *BASYS POINT* is ON. There's no on/off switch. The *BASYS POINT* turns off by itself when it's not being used. There is a "time out" option which you can adjust - -- later.

If the screen is off, touch a key, it's ON.

### Let's run this thing

See the CODE #, description and settlement date. You're ready to calculate an issue. Enter a coupon amount, the entry is shown on the ENTRY LINE (a clever name) - which is the last line on the display. Press <COUPON> (these little things < > mean a specific "KEY").

Enter a maturity date <MATURITY DATE> (the old fashion way - MM.DDYY). Notice the date - the century is displayed and so is the day of the week. Enter a yield and press <TO PRICE>

There you have it - **ALL OF IT!**

```
CODE 0 MUNI/CORP 30/360 SEMIANNUAL
SETTLEMENT DATE TUESDAY 01/20/1998
COUPON 5.125
MATURITY WED 12/01/2010
YIELD 4.800
PRICE TO MATURITY 103.086
```

<PRINCIPAL/INTEREST>

Enter a number of bonds (let's use 100 for starters)  
and press <PRINCIPAL/INTEREST>. A WINDOW opens.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
MATURITY	WED 12/01/2010
	YIELD 4.800
PRICE TO MATURITY	103.086
PRINCIPAL AND INTEREST	
100 BONDS ACCRUED 49 DAYS	
INTEREST COMPUTED FROM 12/01/1997	
PRINCIPAL	\$103,086.00
INTEREST	697.57
TOTAL	\$103,783.57

As you can see the Number of bonds and the days of Accrued Interest are displayed along with very readable dollar amounts. Could it get any easier?

Entering a Concession <CONC>, i.e. 0.25 <CONC>

CODE 0 MUNI/CORP 30/360 SEMIANNUAL			
SETTLEMENT DATE TUESDAY 01/20/1998			
COUPON	5.125		
MATURITY	WED 12/01/2010		
	YIELD	4.800	
PRICE TO MATURITY	103.086		
DOLLAR PRICE CONCESSION (LOWEST)			
PRICE	103.086	YIELD	4.800
CONC/BOND	-0.250	AMT/BOND	\$2.50
NET PRICE	102.836	NET YIELD	4.826

ENTER 100 BONDS <PRINCIPAL/INTEREST>

CODE 0 MUNI/CORP 30/360 SEMIANNUAL			
SETTLEMENT DATE TUESDAY 01/20/1998			
COUPON	5.125		
MATURITY	WED 12/01/2010		
	YIELD	4.800	
PRINCIPAL AND INTEREST			
100 BONDS ACCRUED 49 DAYS			
INTEREST COMPUTED FROM 12/01/1997			
PRINCIPAL		\$103,086.00	
LESS CONC		-250.00	
NET PRINCIPAL		\$102,836.00	
INTEREST		697.57	
TOTAL		\$103,533.57	
NET PRICE	102.836	NET YIELD	4.826

**A word on the use of a WINDOW:**

1. The <C/CE> will clear any WINDOW and return the screen to the status that existed before the function key opened the WINDOW. The <C/CE> is the clear key on the calculator pad.
2. Any other function key that opens a WINDOW will also close an existing WINDOW and present the new WINDOW data.

**<CALL DATE> and <CALL PRICE>**

Now, with the original Issue on the screen (previous WINDOW cleared <C/CE>.), let's add two CALLS. The 1st call date and price will be entered on the <1ST CALL DATE> (use 12.0100) and <1ST CALL PRICE> (use 102.000). A new line will be shown above the MATURITY DATE line. Enter a second call <2ND CALL DATE> (use 12.0108) and <2ND CALL PRICE> (use 100.000) All dates entered are shown in chronological order regardless of the order of entry.

If you enter an illegal date (a date before the SETTLEMENT DATE or a date after the MATURITY DATE, an error BEEP will be sounded and an error message will appear in a small window. The data will not be accepted.

After both the date and price are entered the new YIELD to PRICE calculations will occur automatically. Notice the lowest PRICE will be highlighted. And, hold onto your hats, if the PRICE TO EITHER CALL is lowest the YIELD TO MATURITY will be computed and displayed automatically in a WINDOW. We call this window the "kicker window".

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
1ST CALL	FRI 12/01/2000 @ 102.000
2ND CALL	MON 12/01/2008 @ 100.000
MATURITY	WED 12/01/2010
YIELD	4.800
PRICE TO 1ST CALL	102.599
PRICE TO 2ND CALL	102.720
PRICE TO MATURITY	103.086
IF PRICED TO 1ST CALL	
YIELD TO MATURITY IS 4.850	

The lowest price is used for the principal & interest extensions, Mark Up/Down, After Tax Yields, etc.

The calculator will use the lowest price or yield (depending upon which was the computed value) in any calculation performed after the Price/Yield computation. The calculator results can also be re-entered into the Bond Trader as a Price or Yield.

**<NUMBER OF DAYS> or Days between Dates**

Now, with the Issue plus Call data on the screen, let's see how many days there are between all the dates by pressing <NUMBER OF DAYS>. Any open WINDOW will be cleared automatically when the new WINDOW opens.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
1ST CALL	FRI 12/01/2000 @ 102.000
2ND CALL	MON 12/01/2008 @ 100.000
MATURITY	WED 12/01/2010
YIELD 4.800	
PRICE TO 1ST CALL 102.599	
PRICE TO 2ND CALL 102.720	
DAYS BETWEEN DATES	
PREVIOUS COUPON (MON 12/01/1997)	
TO SETTLEMENT 49 DAYS	
SETTLEMENT TO 1ST CALL 1,031 DAYS	
SETTLEMENT TO 2ND CALL 3,911 DAYS	
SETTLEMENT TO MATURITY 4,631 DAYS	

The data in this WINDOW are self-explanatory. Yes?

Close the WINDOW by pressing <C/CE> or try <MARK UP> without using the <C/CE>.

## <MARK UP>

Mark Up calculates new prices for changes in yield. A List of basys changes is stored in the Bond Trader which is used in performing this function when you press <MARK UP>. You can also enter the number of basys points and <MARK UP>.

First, try just <MARK UP> and the preset yield changes will compute up to 5 different prices, dollar price changes and dollar amounts for these changes.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL SETTLEMENT DATE TUESDAY 01/20/1998				
COUPON	5.125			
1ST CALL	FRI 12/01/2000	@	102.000	
2ND CALL	MON 12/01/2008	@	100.000	
MATURITY	WED 12/01/2010			
YIELD	4.800			
DOLLAR PRICE MARK-UP (LOWEST)				
BASYS	YIELD	PRICE	CHANGE	\$ AMT
	4.800	102.599		
1.0	4.790	102.627	0.027	\$0.27
2.0	4.780	102.654	0.054	\$0.54
3.0	4.770	102.681	0.081	\$0.81
4.0	4.760	102.708	0.108	\$1.08
5.0	4.750	102.735	0.135	\$1.35

"How did this happen?" you ask. Well, the Setup List has up to five (5) preset variables stored, one for each "basys" point level and yes, they are modifiable. (Series 211 has only 1 stored variable)

You can also do a "Mark Down". Press the <change sign> then the <Mark up>. This will reverse the direction of the calculation and give a set of mark downs with 5 basys point levels.

See the section on <SETUP/SPCL FNCT> for more information on setting this value.

See Page 7 for another example

Second, try <1> <MARK UP> and the YIELD will adjust by 1 (one) basys point.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL				
SETTLEMENT DATE TUESDAY 01/20/1998				
COUPON	5.125			
1ST CALL	FRI	12/01/2000	@	102.000
2ND CALL	MON	12/01/2008	@	100.000
MATURITY	WED	12/01/2010		
	YIELD	4.800		
PRICE TO 1ST CALL 102.599				
PRICE TO 2ND CALL 102.720				
PRICE TO MATURITY 103.086				
DOLLAR PRICE MARK-UP (LOWEST)				
BASYS	YIELD	PRICE	CHANGE	\$ AMT
	4.800	102.599		
1.0	4.790	102.627	0.027	\$0.27
5.0	4.750	102.735	0.135	\$1.35

“How did this happen?” you ask again. Well, in that Setup List with the preset variables there is a thing called a VARIANCE which computes what you entered (1 in this case) and adds the variance to it. Since the variance in this example was set to 4 basys points, the mark up is computed to 1 and 5 basys points, and yes, you can change it too. Of course, if your VARIANCE is set to zero then only the basys entered is shown.

See the section on <SETUP/SPCL FNCT> for more information on setting this value.

<CURRENT YIELD/DURATION/CONVEXITY>

Now, with an Issue on the screen, let's compute the Current Yield, Duration and Convexity. Once again hold onto your hats, because, we compute all these things to both 1st Call, 2nd Call, and Maturity.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL			
SETTLEMENT DATE TUESDAY 01/20/1998			
COUPON	5.125		
1ST CALL	FRI 12/01/2000	@	102.000
2ND CALL	MON 12/01/2008	@	100.000
MATURITY	WED 12/01/2010		
	YIELD	4.800	
PRICE TO 1ST CALL 102.599			
MACAULAY DURATION AND CONVEXITY			
	DURATION	MODIFIED	CONVEXITY
1ST CALL	2.685	2.622	8.44
2ND CALL	8.444	8.246	83.65
MATURITY	9.568	9.344	109.51
	CURRENT YIELD 4.995		

The Duration is displayed in YEARS (not periods).

<TO AFTER TAX YIELD>

This Issue is a discounted bond with a Capital Gains Rate of 20.0% and an Income Tax Rate of 0.0%. We compute the After Tax Yield. Once again if your not holding on to your hats - do so because, we compute the After Tax Yield to 1st Call, 2nd Call, and Maturity.

This Bond Trader is so smart that it remembers the last Tax Rates you entered even if you pulled the plug. ... You bet!

Let's see if the Rates we put in at the factory are still there. Well if we goofed, you can put them in now.

First, <DISPLAY> then, <INCOME TAX RATE> or <CAPITAL GAINS RATE> You can use either key for the same results. Both RATES are always displayed in the window.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.250
1ST CALL	WED 06/01/2005 @ 101.250
2ND CALL	FRI 06/01/2018 @ 100.000
MATURITY	MON 06/01/2020
	YIELD 5.500
PRICE TO 1ST CALL	99.334
PRICE TO 2ND CALL	96.953
PRICE TO MATURITY	96.798
TAX RATES	
INCOME TAX	0.0% CAPITAL GAINS 20.0%
AFTER TAX YIELD TO 1ST CALL	5.457
AFTER TAX YIELD TO 2ND CALL	5.483
AFTER TAX YIELD TO MATURITY	5.485

Rates may be changed at any time by entering a rate and pressing either Tax Rate key. These rates are stored in memory and will be retained until changed. **A zero rate must be entered for a 0.0% Tax Rate.**

If you want a Capital Gains Rate of say, 39.5% just enter 39.5 and press<CAPITAL GAINS RATE>. You can enter decimal value in the rate. Both rates appear in the same window when either is changed.

At any time the <TO AFTER TAX YIELD> can be pressed. Both rates appear in the ATY WINDOW as a confirmation of the rates used.

<TO AFTER TAX YIELD>

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.250
1ST CALL	WED 06/01/2005 @ 101.250
2ND CALL	FRI 06/01/2018 @ 100.000
MATURITY	MON 06/01/2020
	YIELD 5.500
PRICE TO 1ST CALL	99.334
PRICE TO 2ND CALL	96.953
PRICE TO MATURITY	96.798
TAX RATES	
INCOME TAX	0.0% CAPITAL GAINS 20.0%
AFTER TAX YIELD TO 1ST CALL	5.457
AFTER TAX YIELD TO 2ND CALL	5.483
AFTER TAX YIELD TO MATURITY	5.485

The After Tax Yield can also be entered to compute the Before Tax Price and Before Tax Yield. Enter the After Tax Yield and press <TO AFTER TAX YIELD>. Both the Before Tax Price and Yield are computed simultaneously.

Enter a value and press <TO AFTER TAX YIELD>

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.250
1ST CALL	WED 06/01/2005 @ 101.250
2ND CALL	FRI 06/01/2018 @ 100.000
MATURITY	MON 06/01/2020
	YIELD 5.500
PRICE TO 1ST CALL	99.334
TAX RATES	
INCOME TAX	0.0% CAPITAL GAINS 20.0%
AFTER TAX YIELD TO MATURITY	5.600
BEFORE TAX PRICE TO MATURITY	95.286
BEFORE TAX YIELD TO MATURITY	5.622
<ENTER> TO USE BEFORE TAX VALUES	
<C/CE> TO EXIT	

5.6

**<SAVE ISSUE>**

Let's SAVE this Issue so we can use it later in some other calculations and WINDOW features. Press <SAVE ISSUE>

It found a place in memory and a WINDOW opened to tell us where it is in memory. There are two hundred fifty (250) such places in the "411", ninety-nine (99) in the "311" and thirty (30) in the "211", to store Issues. Each Issue can be recalled by entering the Issue Location Number or displaying the entire List ...more on this later

CODE 0	MUNI/CORP	30/360	SEMIANNUAL
SETTLEMENT DATE	TUESDAY	01/20/1998	
COUPON	5.125		
1ST CALL	FRI 12/01/2000	@	102.000
2ND CALL	MON 12/01/2008	@	100.000
MATURITY	WED 12/01/2010		
	YIELD	5.500	
PRICE TO 1ST CALL	100.724		
PRICE TO 2ND CALL	96.956		
PRICE TO MATURITY	96.567		
SAVED AS ISSUE 12.0			

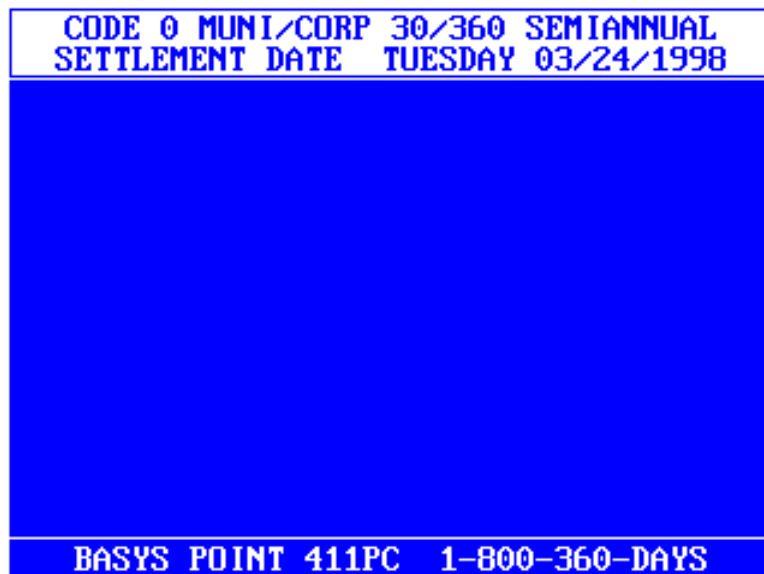
This Issue was saved in Location 12 in Group 0. The Series 411 can store Issues into ten (10) different groups. Each Group can store up to ninety-nine Issues (250 Issue maximum).

Let's move on to some other items and come back and use this Saved Issue later.

## <CLEAR ISSUE>

The <CLEAR ISSUE> does just that, it clears ALL the displayed data for the Issue at the time the key is pressed.

The Settlement Date is not affected by this function. So if the Settlement Date was reset to perhaps check an old ticket, the <CLEAR ISSUE> will NOT clear it. Therefore another calculation using this Settlement Date can be performed. The Settlement Date can be automatically reset to "today's" Settlement Date by <C/CE> <SETTLEMENT DATE>



"A COMMERCIAL TIME-OUT" --- Give your friends our NUMBER. It's always on the last line of the screen when you press <CLEAR ISSUE>

IF YOU HAVE ANY QUESTIONS, CONCERNS OR IDEAS REGARDING THE *BASYS POINT BOND TRADER* JUST CALL US TOLL FREE AT

**1-800-360-DAYS**

## <CODE> entry and Code List

Many users of bond calculators are accustomed to a listing of Codes either on the unit or in a manual (but where is my manual?). We stored the List in the memory of the *BASYS POINT 311* so you could easily DISPLAY CODES, so let's try it. Press <DISPLAY> <CODE> and see what happens. Voile!

CODE LIST	
CODE 0	MUNI/CORP 30/360 SEMIANNUAL
CODE 1	GOVERNMENT ACT/ACT SEMIANNUAL
CODE 2	NOTES 30/360
CODE 3	NOTES ACT/360
CODE 4	NOTES ACT/365
CODE 5	TREASURY BILLS ACT/360
CODE 6	STEPPED COUPON BONDS 30/360
CODE 7	MUNI/CORP 30/360 ANNUAL
CODE 8	AGENCY BONDS 30/360
CODE 9	CORPORATE ODD 1ST 30/360 SIA
CODE 10	CORPORATE PUT/CALL 30/360

<↑> OR <↓> TO SELECT CODE  
<ENTER> TO BEGIN SELECTED CODE  
N<CODE> TO BEGIN CODE N  
<C/CE> TO EXIT

Enter the Code Number and press <CODE>. Also, the ARROW <UP> or <DOWN> (on the <+> and <-> calculator keys) will move you through the List, highlight a selection and press <ENTER> (just above the <#9>). This entry will then return you to the Main screen with the selected Code displayed along with the proper Settlement Date for the selected Code.

Any Code can be entered at any time without the use of the List of Codes. Just enter any Code Number and press <CODE>. The Code Number, Description and Settlement Date will change appropriately

When a Code is changed from one number to another number, the data that may have been present on the Main screen will be cleared. Of course, like so many features of the Basys Point, you can modify this feature ... later.

## <SETTLEMENT DATE>

The Settlement Date can be entered at any time for an Issue. Certain rules must be observed. The Settlement Date will change when Codes are changed, it must be later than the Issue Date, and before any Call Date or Maturity Date. Just like the real world. But if the entries do not follow these simple rules, the Basys Point will BEEP. We're watching!

A WINDOW will appear advising that the Settlement Date has been changed.

In this example we changed the Code from "0" Muni/Corp to "1" Government. In other words from T+3 to T+1 or next day settlement.



<CODE> <1> and <32nds>

The Code List selection for Code 1 is Government Bonds Actual/Actual. Let's change Codes and see some new features.

Enter <1> <CODE>. Notice the heading and in particular, the Settlement Date. It has been changed and a message appears (see <SETTLEMENT DATE> above)

One main difference in this Code from the MUNI/CORP Code 0 is the use of 32nds in Price/Yield calculations.

Let's enter a Coupon and Maturity Date. Then enter a DOLLAR PRICE of 101.11 with the ".11" representing 11/32s. The <32nds> used, after this entry, will convert the ".11" to the decimal equivalent and display both numbers.

Enter 101.11  
Press <32nds>

```
CODE 1 GOVERNMENT ACT/ACT SEMIANNUAL
SETTLEMENT DATE THURSDAY 01/15/1998
COUPON 5.500
MATURITY WED 04/15/1998

101' 11.000 = 101.34375
```

The entry of 101.11 for 101 and 11/32nds was converted into the decimal equivalent. The entry is now shown with an apostrophe 101'11.000

Entries may be made in any fractional amount of 32nds such as 101 and 12 1/8 32nds which is entered as 101.12125. It's easier done than said.

The entry will appear as 101'12.125 = 101.37890625

The apostrophe before the number means 32nds.

When the <TO YIELD> is computed the entered DOLLAR PRICE is shown in decimals as entered. Also, the number of 32nds (decimal portion of the Dollar Price) is displayed to the right of the entered or computed Dollar Price.

A picture is still worth a thousand words! The VALUE of 1/32 is also computed and displayed..... Not bad!

```
CODE 1 GOVERNMENT ACT/ACT SEMIANNUAL
SETTLEMENT DATE THURSDAY 01/15/1998
COUPON 5.500
MATURITY THU 02/15/2001
PRICE 101.343750 ' 11.000
YIELD TO MATURITY 5.023
VALUE OF 1/32 IS 1.1 BASYS POINTS
```

<DISPLAY> <32NDS> will convert a decimal number back into a 32nds format, i.e. 101.734023 <DISPLAY> <32NDS> will result in 101'23.5

Enter any decimal value and Press <DISPLAY> <32NDS>.

If a Yield is entered and the <TO PRICE> is computed, the resulting DOLLAR PRICE is displayed and automatically converted to 32nds (to the right of the Price).

You can also set the number of decimals in the displayed value of 32nds. See the section on SETUP/SPCL FNCT.

**<CODE 6> STEPPED COUPON BONDS**  
(early software versions allowed only one call)

Units with Series 411 Version 2.07 or higher can use two calls

Let's run the following example for the Series 411.

Enter <6> <CODE>

You must enter the Conversion Date and the Conversion Rate on the <ENTER>. Call details (1st or 2nd) are entered in the normal manner. When Code 6 is selected, a message appears explaining the entry method.

Press <ENTER> and a window opens for entry of the 2nd Coupon (or Conversion Rate) and the Conversion Date. Enter each item and press <ENTER>. Changes to either of these two items can be made. First press <ENTER> to open the window and then make the changes.

CODE 6 STEPPED COUPON BONDS 30/360		
SETTLEMENT DATE TUESDAY 01/20/1998		
COUPONS	1ST 5.625	2ND
CONVERSION COUPON/DATE		
2ND COUPON 8.875		
CONVERT [REDACTED]		
MM.DDYY<ENTER> TO SET CONVERT DATE		
<C/CE> TO ENTER LATER		
		12.012000

After data is entered in this window, the Main Screen will show a line with the Conversion Rate as the "2nd COUPON". The line with CONVERT shows the Conversion Date.

The next page has a sample of a completed Code 6 issue.

Code 6 allows for the calculation of two CALLS between the Settlement Date and the Maturity Date. Either CALL can, therefore, be on, before or after the Conversion Date.

This example has a Call on the Conversion Date. It is also priced lowest to the 1st Call.

CODE 6 STEPPED COUPON BONDS 30/360	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPONS	1ST 5.625 2ND 8.875
CONVERT	THU 06/01/2000
1ST CALL	THU 06/01/2000 @ 102.625
2ND CALL	TUE 06/01/2010 @ 100.000
MATURITY	FRI 06/01/2012
	YIELD 7.221
PRICE TO 1ST CALL	98.797
PRICE TO 2ND CALL	106.418
PRICE TO MATURITY	107.678
IF PRICED TO 1ST CALL	
YIELD TO MATURITY IS 8.197	

The use of <ENTER> for the Conversion detail can be performed at any time prior to the calculation of Price or Yield.

## <SAVE ISSUE> & <RECALL ISSUE>

Issues are saved in “places” in the memory of the Basys Point and will remain Saved until they are cleared or replaced with a new Issue. This memory is non-volatile --- that means Issues Stored will not be erased by loss of power or unplugging the unit. There are two hundred fifty (250) such places in the “411”, ninety-nine (99) in the “311” and thirty (30) in the “211”. We saved an Issue earlier on page 11

The Series 411 allows for Issues to be Stored in ten (10) different Groups. Each Group can store up to ninety-nine (99) Issues (maximum for all Groups is 250 issues). The Group Numbers are “.0” to “.9”. Note that a decimal point always appears before the Group Number.

The Series 211 & 311 has only one Group and that Group Number is always Group zero “.0”.

When each Issue is saved, it is assigned an Issue Location Number. This number has two parts. One part, the integer part (left of the decimal) is the Issue Number and the other part, the decimal part, is the Group Number. An example of Issue 20 in Group .4 is shown below.

The Issue Number can be assigned by you, or automatically by the Basys Point. This is accomplished several ways:

1. Just press <SAVE ISSUE> and the next available slot will be assigned.
2. Input a number, say “20” and press <SAVE ISSUE>. This Issue will be assigned to Issue #20

Both method #1 & #2 above will save the Issue in Group “.0” automatically.

3. Input a number say “20.4” and press <SAVE ISSUE>. This Issue will be assigned to Issue #20 in Group Number “.4” (Series 411 only).

If an Issue exists in any location previously assigned to another Issue, you can either over-write the existing Issue or assign a different location. A prompt will appear and request an “over-write” or “clear” to assign another place. The prompt is “OVERWRITE ISSUE 20.4”?

The next page shows two examples of Saved Issues.



Let's RECALL the Issue we SAVED earlier on page 11. The Basys Point requires Issues to be present in order access <RECALL ISSUE>. So, if you have no Issues stored, SAVE some now. See Page 19 on <SAVE ISSUE> for more detail on how Issues are assigned "places" in memory.

Issues can be RECALLED several ways:

First, the Series 211 & 311 (which has only one Group of Issues)

1. Input a number, say "1" and press <RECALL ISSUE>. Issue #1 will be RECALLED from memory.
2. Just press <RECALL ISSUE> and a List of Issues will appear. Then use the arrow up/down keys (see the <+> & <->) to select the Issue and press <RECALL ISSUE> again. The selected Issue is now ready to be used.

Second, the Series 411 (which has 10 Groups)

1. Input a number, say "1" and press <RECALL ISSUE>. Issue #1 will be recalled from memory.
2. Input a number say "20.4" and press <RECALL ISSUE>. Issue #20 from Group Number ".4" will be Recalled (of course, an Issue must be in this Location or an "error window" will appear).
3. Just press <RECALL ISSUE> and a List of Groups will appear. The Groups are number ".0" through ".9". The number of Issues in each Group will also be noted. Use the arrow up/down keys to select the Group and press <RECALL ISSUE> again. The selected Group is now displayed. Select the Issue and press <RECALL ISSUE> again. The selected Issue is now ready to be used.

When the Issue is recalled several different functions occur depending upon the Setup criteria selected by you. (See <SETUP/SPCL FNCT>)

Factory settings allow for:

1. The Code of the Saved Issue to be recalled and the Settlement Date to be reset for the Code of this Issue automatically.
2. All Dates, Prices and the Number of Bonds are available immediately.

The user (you) may also change certain criteria and allow for:

1. The original Settlement Date to be recalled with the issue thus bypassing the resetting of this Date.  
and/or
2. The original Price/Yield to be recalled with the issue

In either case, just enter the new Price or Yield and compute a new result.

Below are two samples of <RECALL ISSUE>

1. Issue #5 in Group #.0 is selected (when highlighted).

SAVED ISSUES FOR GROUP .0			
#	CODE	COUPON	MAT DATE
1	5	- .---	12/01/98
2	1	5.000	12/01/10 *
3	0	5.000	06/15/20 *
4	0	5.375	06/15/12 *
5	0	6.750	07/15/22 *
6	4	5.300	12/15/99
7	0	5.750	01/01/25 *
8	0	6.125	07/01/19 *

<↑>/<↓>/<×>/<⇄>	TO MOVE UP OR DOWN
<RECALL ISSUE>	TO RECALL ISSUE
<CLEAR ISSUE>	TO DELETE ISSUE
<EXTND FNCT>	TO SHOW AVERAGES
<C/CE>	TO EXIT

2. List of Issues with Group #.0 selected (when highlighted). Note, the Issue column showing the number of Issues in each Group.

SAVED ISSUE GROUPS	
GROUP	ISSUES
.0	14
.1	7
.2	1
.3	7
.4	11
.5	2
.6	6
.7	7
.8	24

<↑>/<↓>/<×>/<⇄>	TO MOVE UP OR DOWN
<EXTND FNCT>	TO SHOW AVERAGES
<RECALL ISSUE>	TO LIST ISSUES
<C/CE>	TO EXIT

**<EXTND FNCT> or <BEGIN PRODUCTION/SWAP>**

The Extended Function <extnd fnct> (older units will have this key labeled <production/swap begin>). These two functions are the same key but, labeled differently on different keyboards. It is the upper right most key on the keyboard.

The <extnd fnct> allows for certain extended functions to be selected. These functions vary with the Series of software installed on each unit.

The Series 211 does not have any Extended Functions. The 211 or 311 can be upgraded to have 411 features at any time your needs require. For upgrade policy and cost, call Basys Point.

The Series 311 allows for the calculation of AVERAGES on a list of Saved issues (production).

The Series 411 additionally allows for the calculation of AVERAGES on two groups of Saved issues simultaneously (swap).

Both the Series 311 & 411 allow for the Re-pricing of issues without requiring the Recall of a Saved issue.

<b>CODE 0 MUNI/CORP 30/360 SEMIANNUAL</b>	
<b>SETTLEMENT DATE TUESDAY 01/20/1998</b>	
<b>COUPON</b>	<b>5.125</b>
<b>1ST CALL</b>	<b>FRI 12/01/2000 @ 102.000</b>
<b>2ND CALL</b>	<b>MON 12/01/2008 @ 100.000</b>
<b>MATURITY</b>	<b>WED 12/01/2010</b>
	<b>YIELD 4.800</b>
<b>PRICE TO 1ST CALL</b>	<b>102.599</b>
<b>PRICE TO 2ND CALL</b>	<b>102.720</b>
<b>PRICE TO MATURITY</b>	<b>103.086</b>
<b>SELECT EXTENDED FUNCTION</b>	
<b>&lt;1&gt;</b>	<b>REPRICE GROUP ISSUES</b>
<b>&lt;2&gt;</b>	<b>DISPLAY AVERAGES FOR 1 GROUP</b>
<b>&lt;3&gt;</b>	<b>DISPLAY AVERAGES FOR 2 GROUPS</b>
	<b>&lt;C/CE&gt; TO EXIT</b>

The examples below will refer to this function key as “extended function” only and is noted as <>. The number following the <function> is a menu selection.

<><1>

This function allows for the Re-pricing of Saved Issues. Each issue can be re-priced and extended by a new number of bonds. A new Number of Bonds can be entered on the <PRINCIPAL/INTEREST>. A new Price or Yield can be entered on either the <TO PRICE> or the <TO YIELD>.

The arrow up/down will scroll through the list of Issues in the Group.

The Series 411 will first require that the Group Number to be entered before re-pricing.

The following is an example of RE-PRICING in Group “.0”. The Issue being re-priced is Issue #14.

REPRICE GROUP .0 ISSUES		
ISSUE 14		CODE 0
COUPON 5.000		100 BONDS
MATURITY RDMP WED 12/01/2010		
YIELD 5.250		
PRICE TO RDMP 97.698		
<↑> OR <↓> TO SELECT ISSUE		
N<PRINCIPAL> TO CHANGE BONDS		
N.NN<TO PRICE> TO CHANGE PRICE		
N.NN<TO YIELD> TO CHANGE YIELD		
<EXTND FNCT> TO SHOW AVERAGES		
<RECALL ISSUE> TO RECALL ISSUE		
<C/CE> TO EXIT		

If (EXTND FNCT> is pressed from this screen, all AVERAGES (production) will be displayed. In other words, you can re-price Issues and immediately display a new production.

**<extnd fnct><2>**

This function allows for the Averaging of Saved Issues. Each issue in the Group selected will be averaged if:

1. The Issue is a periodic Bond, i.e. Muni/Corp, Government (no Notes or Bills or Stepped Coupons)
2. The Issue was SAVED with the Number of Bonds.

Note:

- a. When the Issue was saved with the Number of Bonds an asterisk appears to the right of each Issue.
- b. If no asterisk appears, it means either the Issue is not eligible to be used in the Average or the Number of Bonds was not entered before it was Saved.
- c. Issues that are in a Group but have no asterisk are excluded from the Averages.

Issues can be removed from any Group by Recalling the List, selecting the Issue and <CLEAR ISSUE> for the Issue(s) to be deleted from the List.

This function can be accessed directly from either the Re-pricing function or the List of Issues.

The following is an example of AVERAGES (production) for Group “.0”.

AVERAGES FOR GROUP .0	
TOTAL # OF BONDS	5,950
AVERAGE COUPON	5.700
AVERAGE REDEMP YEARS	24.393
AVERAGE REDEMP DATE	08/16/22
AVERAGE YIELD	5.911
AVERAGE PRICE	97.278
AVERAGE CURRENT YIELD	6.077
COUPON INCOME/YEAR	\$339,156
TOTAL COUPON INCOME	\$8,409,078
TOTAL PURCHASE PRICE	\$5,788,040
CAP GAIN @ REDEMP	\$161,960
CAP GAIN + COUPON	\$8,571,038

<C/CE> TO CONTINUE

**<extnd fnct><3>**

This function allows for the Averaging of Saved Issues for two different Groups. Issues in both Groups selected will be averaged if:

1. The Issue is a periodic Bond, i.e. Muni/Corp, Government (no Notes or Bills or Stepped Coupons)
2. The Issue was SAVED with the Number of Bonds.

Note:

- a. When the Issue was saved with the Number of Bonds an asterisk appears to the right of each Issue.
- b. If no asterisk appears, it means either the Issue is not eligible to be used in the Average or the Number of Bonds was not entered before it was Saved.
- c. Issues that are in a Group but have no asterisk are excluded from the Averages.

Issues can be removed from any Group by Recalling the List, selecting the Issue and <CLEAR ISSUE> for the Issue(s) to be deleted from the List.

The following is an example of AVERAGES (swap) for Group “.1” and Group “.3”.

AVERAGES FOR			GROUP .1	GROUP .3
TOTL # BONDS		4,450		4,900
AVE COUPON		5.674		5.000
AVE RDMP YEARS		25.345		22.225
AVE RDMP DATE		07/30/23		06/15/20
AVE YIELD		6.000		5.250
AVE PRICE		96.120		96.730
AVE CUR YIELD		6.242		5.427
CPN INC/YEAR		\$252,500		\$245,000
TOTL CPN INC		\$6,502,500		\$5,512,500
TOTL PUR PRCE		\$4,277,318		\$4,739,770
CAP GN @ RDMP		\$172,682		\$160,230
CAP GN + CPN		\$6,675,182		\$5,672,730
<C/CE> TO CONTINUE				



TIME AND DATE SETTINGS <SETUP> or <SPCL FNCT> <1>,<1>

TIME/DATE SETTINGS	
DATE FORMAT IS	MM/DD/YY
TODAY'S DATE IS	01/14/98
LOCAL TIME IS (00:00-23:00)	15:42
DISPLAY ACTIVE TIME (MIN)	10

<↑> OR <↓> TO SELECT ITEM  
MM.DDYY<ENTER> TO CHANGE VALUE  
<C/CE> TO EXIT

1. "DATE FORMAT IS"

- MM/DD/YY is (MM.DDYY AND MM.DDYYYY)
- DD/MM/YY is (DD.MMY Y AND DD.MMY YYY)
- YY/MM/DD is (YY.MMDD AND YYYY.MMDD)
- YY/DD/MM is (YY.DDMM AND YYYY.DDMM)

2. "TODAY'S DATE IS"

- a) MONTH (MM) is one or two digits (1-12) or (01-12)
- b) DAY is two digits (01-31)
- c) YEAR (YYYY) is two or four digits (1995, 95, or 2094)

3. "LOCAL TIME IS"

- TIME is set to military time.
- 0.01 for 00:01 minute (1 minute after midnight)
- TO
- 24.0 is for 24:00 hours (midnight)

4. "DISPLAY ACTIVE TIME"

The screen will remain ON for an "Active Time" after any key is pressed. Time-ON may be from 10 to 600 minutes

## CALCULATOR SETTINGS

<SETUP> or <SPCL FNCT> <1>,<2>

CALCULATOR SETTINGS	
CALCULATOR VALUES WILL	ROUND OFF
CALCULATOR DECIMAL SETTING	4
CALCULATOR MEMORIES	TEN
CLEAR CALCULATOR ON EXIT	NO
BOND DISPLAY INPUT	LOW RESLT
CONCESSION DISPLAY INPUT	NET PRICE
P&I DISPLAY INPUT	PRINCIPAL
ENTRY LINE 32NDS DISPLAY	ON
32NDS DISPLAY DECIMALS	3

<↑> OR <↓> TO SELECT ITEM  
<=> TO CHANGE SETTING  
<C/CE> TO EXIT

1. "Calculator DECIMAL RESULTS will"  
ROUND OFF or TRUNCATE
2. "CALCULATOR DECIMAL SETTING"  
0 to 9 places
3. "CALCULATOR MEMORIES (1 OR 10)  
ONE OR TEN
  - a) Calculator Memories can be set to 1 memory which requires NO entry of a Memory number (n) <SAVE MEMORY (n)>.
  - b) Calculator Memories can be set to 10 memories which requires entry of a Memory Number (n) <SAVE MEMORY (n)>.  
If 10 memories are selected, (n) has a range of 0 through 9
4. "CLEAR CALCULATOR ON EXIT"  
YES OR NO  
If NO - Calculator will not clear when returning to Bond Calculator
5. "BOND DISPLAY INPUT"  
LOW RESULT, or LOW PRICE, or LOW YIELD  
Calculator will accept selected "lowest" from Bond calculation
6. "CONCESSION DISPLAY INPUT"  
NET PRICE or NET YIELD"  
Calculator will accept selected option from Bond calculation

7. "P&I DISPLAY INPUT"

PRINCIPAL, or NET PRICE, or INTEREST, or TOTAL AMOUNT  
Calculator will accept selected option from Bond calculation

8. "CALCULATOR 32NDS DISPLAY"

ON or OFF

The calculator will display decimals converted into 32nds on  
the Entry line

9. "32NDS DISPLAY DECIMALS"

1, or 2, or 3 decimals

32nds will be displayed with 1, 2, or 3 decimals

YIELD DISPLAY SETTINGS <SETUP> or <SPCL FNCT> <1>,<3>

YIELD DISPLAY SETTINGS	
YIELD VALUES WILL	ROUND OFF
YIELD DECIMAL SETTING	3
VALUE OF 1/32 DECIMAL SETTING	1
INCLUDE CAPITAL LOSS IN ATY	YES

<↑> OR <↓> TO SELECT ITEM  
<=> TO CHANGE SETTING  
<C/CE> TO EXIT

1. "YIELD VALUES WILL"  
ROUND OFF or TRUNCATE  
The Yield results of a Dollar Price <TO YIELD> calculation will follow this parameter.
- 2 "YIELD DECIMAL SETTINGS"  
1, or 2, or 3, or 4 decimals  
The Yield results of a Dollar Price <TO YIELD> calculation will be displayed in 1, 2, 3, or 4 decimal places.
3. "VALUE OF 1/32 DECIMAL SETTING"  
1, or 2, or 3, or 4 decimals  
The Value of 1/32 will display in 1, 2, 3, or 4 decimal places.
4. "INCLUDE CAPITAL LOSS IN ATY"  
YES or NO  
If YES, <After Tax Yield> will included any Capital Loss

YIELD DISPLAY SETTINGS <SETUP> or <SPCL FNCT> <1>,<3>

YIELD DISPLAY SETTINGS	
YIELD VALUES WILL	ROUND OFF
YIELD DECIMAL SETTING	3
VALUE OF 1/32 DECIMAL SETTING	1
INCLUDE CAPITAL LOSS IN ATY	YES

<↑> OR <↓> TO SELECT ITEM  
<=> TO CHANGE SETTING  
<C/CE> TO EXIT

1. "YIELD VALUES WILL"  
ROUND OFF or TRUNCATE  
The Yield results of a Dollar Price <TO YIELD> calculation will follow this parameter.
- 2 "YIELD DECIMAL SETTINGS"  
1, or 2, or 3, or 4 decimals  
The Yield results of a Dollar Price <TO YIELD> calculation will be displayed in 1, 2, 3, or 4 decimal places.
3. "VALUE OF 1/32 DECIMAL SETTING"  
1, or 2, or 3, or 4 decimals  
The Value of 1/32 will display in 1, 2, 3, or 4 decimal places.
4. "INCLUDE CAPITAL LOSS IN ATY"  
YES or NO  
If YES, <After Tax Yield> will included any Capital Loss

**DOLLAR PRICE DISPLAYED IN 32NDS BY CODE**  
**<SETUP> or <SPCL FNCT> <1>,<5>**

PRICE 32NDS DISPLAY					
CODE 0	PRICE	32NDS	DISPLAY	IS	<del>OFF</del>
CODE 1	PRICE	32NDS	DISPLAY	IS	ON
CODE 2	PRICE	32NDS	DISPLAY	IS	OFF
CODE 3	PRICE	32NDS	DISPLAY	IS	OFF
CODE 4	PRICE	32NDS	DISPLAY	IS	OFF
CODE 5	PRICE	32NDS	DISPLAY	IS	OFF
CODE 6	PRICE	32NDS	DISPLAY	IS	OFF
CODE 7	PRICE	32NDS	DISPLAY	IS	OFF
CODE 8	PRICE	32NDS	DISPLAY	IS	ON
CODE 9	PRICE	32NDS	DISPLAY	IS	OFF
CODE 10	PRICE	32NDS	DISPLAY	IS	OFF
CODE 11	PRICE	32NDS	DISPLAY	IS	OFF

<↑> OR <↓> TO SELECT ITEM  
 <=> TO CHANGE SETTING  
 <C/CE> TO EXIT

**DOLLAR PRICE IN 32NDS**  
**ON or OFF**

Dollar Price will always be shown in decimals but it can also be automatically converted into 32nds.

The display will show 32nds with an apostrophe before the number, i.e. 101'15.500 for a 101 15/32+

The number of decimals can also be modified from 1 to 3 places (see <SETUP>/<SPCL FNCT> <1> <2> CALCULATOR SETTINGS.

MARK UP/DOWN SETTINGS <SETUP> or <SPCL FNCT> <1>,<6>

MARK UP/DOWN SETTINGS	
MARK UP/DOWN ENTRY VARIANCE	4.0
MARK UP DEFAULT BASYS #1	1.0
MARK UP DEFAULT BASYS #2	2.0
MARK UP DEFAULT BASYS #3	3.0
MARK UP DEFAULT BASYS #4	4.0
MARK UP DEFAULT BASYS #5	5.0
MARK DOWN DEFAULT BASYS #1	1.0
MARK DOWN DEFAULT BASYS #2	2.0
MARK DOWN DEFAULT BASYS #3	3.0
MARK DOWN DEFAULT BASYS #4	4.0
MARK DOWN DEFAULT BASYS #5	5.0

<↑> OR <↓> TO SELECT ITEM  
 NN.NN<ENTER> TO CHANGE VALUE  
 <C/CE> TO EXIT

1. "MARK UP/DOWN ENTRY VARIANCE"

0 to 99.9 Basys Points

The Value of the Basys Point change entered before <MARK UP> will also be shown with the Variance added and displayed as a second result. If the Variance is set to zero, it will not display a result.

2. "MARK UP"

0 to 99.9 Basys Points

PRICE is increased (MARK UP) by reducing the YIELD value by a selected number of BASYS POINTS, i.e. 5 basis points reduces the YIELD by .05.

3. "MARK DOWN"

0 to 99.9 Basys Points

PRICE is decreased (MARK DOWN) by increasing the YIELD value by the selected number of BASYS POINTS, i.e. 5 basis points increases the YIELD by .05.

Press the <MARK UP> with no entry and the Window will show up to 5 DOLLAR PRICE changes. These 5 lines can be reduced to 4, 3 or 2 lines by setting any line value to zero

**DAYS FROM TRADE DATE TO SETTLEMENT DATE (T+DAYS)**  
**<SETUP> <SPCL FNCT> <1>,<7>**

<b>DAYS FROM TRADE TO SETTLEMENT</b>			
<b>CODE 0</b>	<b>3 DAYS</b>	<b>CODE 1</b>	<b>1 DAYS</b>
<b>CODE 2</b>	<b>3 DAYS</b>	<b>CODE 3</b>	<b>3 DAYS</b>
<b>CODE 4</b>	<b>3 DAYS</b>	<b>CODE 5</b>	<b>1 DAYS</b>
<b>CODE 6</b>	<b>3 DAYS</b>	<b>CODE 7</b>	<b>3 DAYS</b>
<b>CODE 8</b>	<b>3 DAYS</b>	<b>CODE 9</b>	<b>3 DAYS</b>
<b>CODE 10</b>	<b>3 DAYS</b>	<b>CODE 11</b>	<b>3 DAYS</b>
<b>CODE 12</b>	<b>0 DAYS</b>	<b>CODE 13</b>	<b>3 DAYS</b>
<b>CODE 14</b>	<b>1 DAYS</b>	<b>CODE 15</b>	<b>3 DAYS</b>
<b>CODE 16</b>	<b>3 DAYS</b>	<b>CODE 17</b>	<b>3 DAYS</b>
<b>CODE 18</b>	<b>3 DAYS</b>	<b>CODE 19</b>	<b>3 DAYS</b>

**<↑> OR <↓> TO SELECT ITEM**  
**N<ENTER> TO CHANGE VALUE**  
**<C/CE> TO EXIT**

**DAYS FROM TRADE DATE TO SETTLEMENT DATE**

0-9 days

Each Code has a unique setting for the Number of DAYS from  
DAY of TRADE DATE to SETTLEMENT DATE

If industry standards change, as they did from T+5 to T+3 days in June 1995, you  
can modify these parameters as needed.

TRADE DATE TO SETTLEMENT DATE WITH HOLIDAYS  
 <SETUP> <SPCL FNCT> <1>,<8>

SETTLEMENT DATE HOLIDAYS		
NEW YEARS DAY	ON	01/01/1999
MARTIN L. KING	ON	01/19/1998
PRESIDENTS DAY	ON	02/16/1998
MEMORIAL DAY	ON	05/25/1998
INDEPENDENCE DAY	ON	07/03/1998
LABOR DAY	ON	09/07/1998
COLUMBUS DAY	ON	10/12/1998
VETERANS DAY	ON	11/11/1998
THANKSGIVING	ON	11/26/1998
CHRISTMAS	ON	12/25/1998
EXTRA HOLIDAY 1	OFF	
EXTRA HOLIDAY 2	OFF	

<↑> OR <↓> TO SELECT ITEM  
 <=> TO CHANGE SETTING  
 <C/CE> TO EXIT

HOLIDAYS USED IN CALCULATION OF SETTLEMENT DATE  
 ON or OFF

Any or all holidays may be turned ON or OFF at any time.

All holidays will reset to the next year holiday date after the holiday is passed.  
 You DO NOT have to reset any of these standard dates.

There are also four (4) EXTRA HOLIDAY setting which allow for the setting of any 1 to 4 different holidays. This allows you to customize this List at any time if a new holiday is required in the calculation of the Settlement Date. These date are reset manually as need and exist for one year only.

**ISSUE SAVE/RECALL SETTINGS**  
<SETUP> or <SPCL FNCT> <1>,<9>

ISSUE SAVE/RECALL SETTINGS	
<b>SORT ISSUE DISPLAY BY</b>	<b>ISSUE #</b>
RECALL SETTLEMENT DATE	NO
RECALL ENTERED PRICE/YIELD	NO

<↑> OR <↓> TO SELECT ITEM  
<=> TO CHANGE SETTING  
<C/CE> TO EXIT

1. "SORT ISSUE DISPLAY BY"  
ISSUE #, CODE, COUPON, MATURITY  
The Issues Saved can be sorted in an ascending order by any one of the following:  
ISSUE NUMBER  
CODE/TYPE  
COUPON  
MATURITY
- 2 "RECALL SETTLEMENT DATE"  
YES or NO  
The Settlement Date is always saved when <SAVE ISSUE> is used.  
This date can be recalled with <RECALL ISSUE> if option is YES  
The option is set to NO as a factory default.
3. "RECALL ENTERED PRICE/YIELD"  
YES or NO  
The Price or Yield is always saved when <SAVE ISSUE> is used.  
This value can be recalled with <RECALL ISSUE> if option is YES  
The option is set to NO as a factory default.

## MAINTENANCE FUNCTIONS

KEY HISTORY DISPLAY <SETUP> <SPCL FNCT> <2>,<1>

All keys strokes used in the calculator (up to 1000 strokes) can be displayed in the sequence of entry.

INITIAL UNIT SETUP <SETUP> <SPCL FNCT> <2>,<2>

INITIAL UNIT SETUP	
CODE CHANGE CLEARS ISSUE	YES
ENTRY BEEPER OUTPUT	LOW
NORMAL DISPLAY BACKGROUND	BLUE
KEYBOARD MAPPING	MAP-2

<↑> OR <↓> TO SELECT ITEM  
<=> TO CHANGE SETTING  
<C/CE> TO EXIT

CODE CHANGE CLEARS DATA"

YES or NO

When the CODE is changed and some date had been entered prior to the change, the data will clear if option is set to YES

**UNIT INFORMATION** <SETUP> <SPCL FNCT> <2>,<3>

This feature will display the Unit Serial Number, Firmware Version and Date of last update.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL SETTLEMENT DATE TUESDAY 01/20/1998
UNIT SERIAL NUMBER 15517100 FIRMWARE SERIES 411PC V2.08 LOADED FEBRUARY 25, 1998 <C/CE> TO EXIT
BASYS POINT 411PC 1-800-360-DAYS

**OPTION INFORMATION <SETUP> <SPCL FNCT> <2>,<4>**

List of all options are available on the Basys Point. Highlighted items are in effect. There are currently 152 options, all of which are included in the Series 411.

These options vary with the Series of software purchased with the Basys Point. These Series are 211, 311, 411 and some custom configurations. The Series Number appears on the last line of the display when <CLEAR ISSUE> is pressed.

Basys Point will upgrade all units currently covered by the Extended Software and Hardware Warranty at a nominal cost. Other units can also be upgraded at the purchase price differential and a service charge.

OPTION INFORMATION	
000	CODE 0 MUNI/CORP 30/360 SEMIANNUAL
001	CODE 1 GOVT ACT/ACT SEMIANNUAL
002	CODE 2 NOTES 30/360
003	CODE 3 NOTES ACT/360
004	CODE 4 NOTES ACT/365
005	CODE 5 TREASURY BILLS ACT/360
006	CODE 6 STEP COUPON BONDS 30/360
007	CODE 7 MUNI/CORP 30/360 ANNUAL
008	CODE 8 AGENCY BONDS 30/360
009	CODE 9 CORP ODD 1ST 30/360 SIA
010	CODE 10 CORP PUT/CALL 30/360
011	CODE 11 MUNI/CORP 30/360 MONTHLY
012	CODE 12 COMM PAPER ACT/360
<↑>/<↓>/<×>/<⇒> TO MOVE UP OR DOWN	
<C/CE> TO EXIT	

## CALCULATOR FUNCTIONS

The calculator will function as a calculator that uses algebraic functions. That is to say "A plus B minus C divided by D times E = F". The following examples show simple addition and subtraction

### 1. Addition and Subtraction with a running Subtotal, "ST"

CODE 0 MUNI/CORP 30/360 SEMIANNUAL SETTLEMENT DATE TUESDAY 01/20/1998	
CALCULATOR	
123.2500	+
145.4500	-
65.3250	+
45.5600	-
248.9350	ST

### 2. Addition and Subtraction with a Total, "TOTAL"

CODE 0 MUNI/CORP 30/360 SEMIANNUAL SETTLEMENT DATE TUESDAY 01/20/1998	
CALCULATOR	
123.2500	+
145.4500	-
65.3250	+
45.5600	-
45.8890	=
203.0460	TOTAL

203.046

Other examples are provided to show use of the calculator with:

1. a Dollar Price plus some value added
2. a Principal amount less a "commission"
3. an adjusted Principal amount divided by 1,000 and then used as a Dollar Price to compute a Yield after adjustment.
4. a Yield amount minus some value

1a. The Dollar Price is computed.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
1ST CALL	FRI 12/01/2000 @ 102.000
2ND CALL	MON 12/01/2008 @ 100.000
MATURITY	WED 12/01/2010
YIELD	4.800
PRICE TO 1ST CALL	102.599
PRICE TO 2ND CALL	102.720
PRICE TO MATURITY	103.086
IF PRICED TO 1ST CALL	
YIELD TO MATURITY IS 4.850	

1b. press <-> (minus) the Dollar Price moves into the calculator window.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
1ST CALL	FRI 12/01/2000 @ 102.000
2ND CALL	MON 12/01/2008 @ 100.000
MATURITY	WED 12/01/2010
YIELD	4.800
CALCULATOR	
	102.5990 -
	102.5990 ST

1c. Enter the value to be subtracted and press <=> The Dollar Price less the value is the "Total".

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
1ST CALL	FRI 12/01/2000 @ 102.000
2ND CALL	MON 12/01/2008 @ 100.000
MATURITY	WED 12/01/2010
YIELD	4.800
CALCULATOR	
	102.5990 -
	0.5000 =
	102.0990 TOTAL
	102.099

1d. An additional calculation can be performed by pressing <TO YIELD> thus calculating the Yield after the value was subtracted from the Dollar Price.

2a. After a Principal amount is extended press <->

CODE 0 MUNI/CORP 30/360 SEMIANNUAL SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
MATURITY	WED 12/01/2010
YIELD	4.800
PRICE TO MATURITY	103.086
CALCULATOR	
103.086.0000	-
103.086.0000	ST

2b. Enter a value and press <=>

CODE 0 MUNI/CORP 30/360 SEMIANNUAL SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
MATURITY	WED 12/01/2010
YIELD	4.800
PRICE TO MATURITY	103.086
CALCULATOR	
103.086.0000	-
150.0000	=
102.936.0000	TOTAL
	102,936

The next page will show the net price converted into a Dollar Price and a net Yield computed.

2c. The net amount was divided by 1,000 to "convert" it into a Dollar Price.

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
MATURITY	WED 12/01/2010
YIELD	4.800
PRICE TO MATURITY	103.086
CALCULATOR	
102.936.0000	÷
1,000.0000	=
102.9360	TOTAL
	102.936

2d. The "net" Price was then used to compute a "net" Yield

CODE 0 MUNI/CORP 30/360 SEMIANNUAL	
SETTLEMENT DATE TUESDAY 01/20/1998	
COUPON	5.125
MATURITY	WED 12/01/2010
PRICE	102.936
YIELD TO MATURITY	4.816

These and many more variations can be performed using the calculator. Many of these functions can be customized to fit your needs. See the Section on <SETUP> for more information on setting new criteria.

