

# Appendix

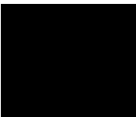
**Appendix A** Resetting the Calculator

**Appendix B** Power Supply

**Appendix C** Error Message Table

**Appendix D** Input Ranges

**Appendix E** Specifications



# Appendix A Resetting the Calculator



## Warning!

The procedure described here clears all memory contents. Never perform this operation unless you want to totally clear the memory of the calculator. If you need the data currently stored in memory, be sure to write it down somewhere before performing the RESET operation.

### •To reset the calculator

1. Highlight the **MEM** icon on the main menu and then press **[EXE]**, or press **[tan]<sup>F</sup>**.

```
Memory
Memory Usage
Reset

To Select:[↑][↓]
To Set   :[EXE]
```

2. Use **[▼]** to move the highlighting down to “Reset” and then press **[EXE]**.

```
*****
*      RESET      *
*****

RESET ALL MEMORIES?

[F1]                [F6]
YES  RESET ALL    NO

[F1]                [F6]
```

3. Press **[F1]** (YES) to reset the calculator or **[F6]** (NO) to abort the operation without resetting anything.

```
*****
*                *
*                *
*  MEMORY CLEARED!  *
*                *
*                *
*****
PRESS [MENU] KEY
```

4. Press **[MENU]**.

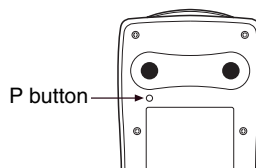
- If the display appears to dark or dim after you reset the calculator, adjust the contrast.



P.11



- If the calculator stops operating correctly for some reason, use a thin, pointed object to press the P button on the back of the calculator. This should make the RESET screen appear on the display. Perform the procedure to complete the RESET operation.



- Pressing the P button while an internal calculation is being performed will cause all data in memory to be deleted.

## Appendix B Power Supply

This calculator is powered by four AAA-size (LR03 (AM4) or R03 (UM-4)) batteries. In addition, it uses a single CR2032 lithium battery as a back up power supply for the memory.

If the following message appears on the display, immediately turn off the calculator and replace batteries.

```
*****  
*  
*  
*   Low battery!  
*  
*  
*  
*****
```

If you try to continue using the calculator, it will automatically turn off in order to protect memory contents. You will not be able to turn power back on until you replace batteries.

Be sure to replace the main batteries at least once every two years, no matter how much you use the calculator during that time.

The batteries that come with this calculator discharge slightly during shipment and storage. Because of this, they may require replacement sooner than the normal expected battery life.



### Warning!

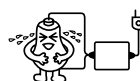
All memory contents will be deleted if you remove both the main power supply and the memory back up batteries at the same time. If you ever remove both batteries, correctly reload them and then perform the reset operation.

## Replacing Batteries

### Precautions:

Incorrectly using batteries can cause them to burst or leak, possibly damaging the interior of the calculator. Note the following precautions:

- Be sure that the positive (+) and negative (–) poles of each battery are facing in the proper directions.
- Never mix batteries of different types.
- Never mix old batteries and new ones.
- Never leave dead batteries in the battery compartment.
- Remove the batteries if you do not plan to use the calculator for long periods.
- Never try to recharge the batteries supplied with the calculator.
- Do not expose batteries to direct heat, let them become shorted, or try to take them apart.



(Should a battery leak, clean out the battery compartment of the calculator immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.)

Keep batteries out of the reach of small children. If swallowed, consult with a physician immediately.

### ● To replace the main power supply batteries



- \* Never remove the main power supply and the memory back up batteries from the calculator at the same time.
- \* Never turn on the calculator while the main power supply batteries are removed or not loaded correctly. Doing so can cause memory data to be deleted and malfunction of the calculator. If mishandling of batteries causes such problems, correctly load batteries and then perform the RESET operation to resume normal operation.
- \* Be sure to replace all four batteries with new ones.

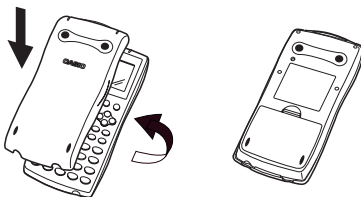
1. Press **SHIFT OFF** to turn off the calculator.



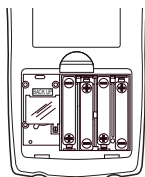
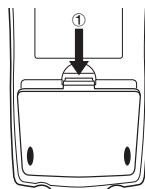
#### **Warning!**

- \* Be sure to turn the calculator off before replacing batteries. Replacing batteries with power on will cause data in memory to be deleted.

2. Making sure that you do not accidentally press the **AC/ON** key, attach the case to the calculator and then turn it over.



3. Remove the back cover from the calculator by pulling with your finger at the point marked ①.
4. Remove the four old batteries.
5. Load a new set of four batteries, making sure that their positive (+) and negative (-) ends are facing in the proper directions.
6. Replace the back cover.
7. Turn the calculator front side up and remove its case. Next, press **AC/ON** to turn on power.



- Power supplied by memory back up battery while the main power supply batteries are removed for replacement retains memory contents.
- Do not leave the calculator without main power supply batteries loaded for long periods. Doing so can cause deletion of data stored in memory.
- If the figures on the display appear too light and hard to see after you turn on power, adjust the contrast.

## ●To replace the memory back up battery



- \* Before replacing the memory back up battery, turn on the calculator and check to see if the “Low battery!” message appears on the display. If it does, replace the main power supply batteries before replacing the back up power supply battery.
- \* Never remove the main power supply and the memory back up batteries from the calculator at the same time.
- \* Be sure to replace the back up power supply battery at least once 2 years, regardless of how much you use the calculator during that time. Failure to do so can cause data in memory to be deleted.

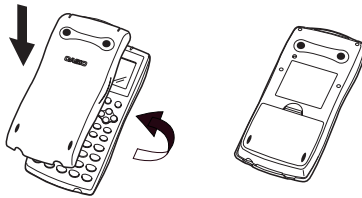
1. Press **[SHIFT] [OFF]** to turn off the calculator.



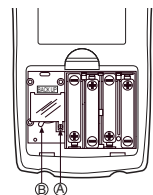
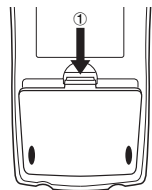
### Warning!

- \* Be sure to turn the calculator off before replacing batteries. Replacing batteries with power on will cause data in memory to be deleted.

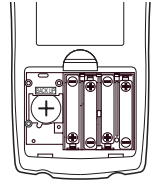
2. Making sure that you do not accidentally press the **[AC/ON]** key, attach the case to the calculator and then turn it over.



3. Remove the back cover from the calculator by pulling with your finger at the point marked ①.
4. Remove screw ② on the back of the calculator, and remove the back up battery compartment cover.
5. Insert a thin, pointed non-metal object (such as a toothpick) into the hole marked ③ and remove the old battery.



6. Wipe off the surfaces of a new battery with a soft, dry cloth. Load it into the calculator so that its positive (+) side is facing up.
7. Install the memory protection battery cover onto the calculator and secure it in place with the screw. Next, replace the back cover.
8. Turn the calculator front side up and remove its case. Next, press **AC/ON** to turn on power.



### ■ About the Auto Power Off Function

Calculator power turns off automatically if you do not perform any key operation for about 6 minutes. To restore power, press **AC/ON**.

## Appendix C Error Message Table

Message	Meaning	Countermeasure
Syn ERROR	<ul style="list-style-type: none"> <li>① Calculation formula contains an error.</li> <li>② Formula in a program contains an error.</li> </ul>	<ul style="list-style-type: none"> <li>① Use ◀ or ▶ to display the point where the error was generated and correct it.</li> <li>② Use ◀ or ▶ to display the point where the error was generated and then correct the program.</li> </ul>
Ma ERROR	<ul style="list-style-type: none"> <li>① Calculation result exceeds calculation range.</li> <li>② Calculation is outside the input range of a function.</li> <li>③ Illogical operation (division by zero, etc.)</li> <li>④ Poor precision in <math>\Sigma</math> calculation results.</li> <li>⑤ Poor precision in differential calculation results.</li> <li>⑥ Poor precision in integration calculation results.</li> <li>⑦ Cannot find results of equation calculations.</li> </ul>	<ul style="list-style-type: none"> <li>①②③④ Check the input numeric value and correct it. When using memories, check that the numeric values stored in memories are correct.</li> <li>⑤ Try using a smaller value for <math>\Delta x</math> (<math>x</math> increment/decrement).</li> <li>⑥ Try changing the tolerance "tol" when using Gauss-Kronrod Rule or the number of divisions "n" when using Simpson's Rule to another value.</li> <li>⑦ Check the coefficients of the equation.</li> </ul>
Go ERROR	<ul style="list-style-type: none"> <li>① No corresponding Lbl <math>n</math> for Goto <math>n</math>.</li> <li>② No program stored in program area Prog "file name".</li> </ul>	<ul style="list-style-type: none"> <li>① Correctly input a Lbl <math>n</math> to correspond to the Goto <math>n</math>, or delete the Goto <math>n</math> if not required.</li> <li>② Store a program in program area Prog "file name", or delete the Prog "file name" if not required.</li> </ul>
Ne ERROR	<ul style="list-style-type: none"> <li>• Nesting of subroutines by Prog "file name" exceeds 10 levels.</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure that Prog "file name" is not used to return from subroutines to main routine. If used, delete any unnecessary Prog "file name".</li> <li>• Trace the subroutine jump destinations and ensure that no jumps are made back to the original program area. Ensure that returns are made correctly.</li> </ul>



Message	Meaning	Countermeasure
Stk ERROR	<ul style="list-style-type: none"> <li>• Execution of calculations that exceed the capacity of the stack for numeric values or stack for commands.</li> </ul>	<ul style="list-style-type: none"> <li>• Simplify the formulas to keep stacks within 10 levels for the numeric values and 26 levels for the commands.</li> <li>• Divide the formula into two or more parts.</li> </ul>
Mem ERROR	<ul style="list-style-type: none"> <li>• Not enough memory to input a function into function memory.</li> <li>• Not enough memory to create a matrix using the specified dimension.</li> <li>• Not enough memory to hold matrix calculation result.</li> <li>• Not enough memory to store data in list function.</li> <li>• Not enough memory to input coefficient for equation.</li> <li>• Not enough memory to hold equation calculation result.</li> <li>• Not enough memory to hold function input in the Graph Mode for graph drawing.</li> <li>• Not enough memory to hold function input in the DYNA Mode for graph drawing.</li> <li>• Not enough memory to hold function or recursion input.</li> </ul>	<ul style="list-style-type: none"> <li>• Keep the number of variables you use for the operation within the number of variables currently available.</li> <li>• Simplify the data you are trying to store to keep it within the available memory capacity.</li> <li>• Delete no longer needed data to make room for the new data.</li> </ul>
Arg ERROR	<ul style="list-style-type: none"> <li>• Incorrect argument specification for a command that requires an argument.</li> </ul>	<ul style="list-style-type: none"> <li>• Correct the argument.</li> <li>• Lbl <math>n</math> , Goto <math>n</math> : <math>n</math> = integer from 0 through 9.</li> </ul>
Dim ERROR	<ul style="list-style-type: none"> <li>• Illegal dimension or list used during matrix calculations.</li> </ul>	<ul style="list-style-type: none"> <li>• Check matrix or list dimension.</li> </ul>
Com ERROR	<ul style="list-style-type: none"> <li>• Problem with cable connection or parameter setting during program data communications.</li> </ul>	<ul style="list-style-type: none"> <li>• Check cable connection.</li> </ul>
Transmit ERROR!	<ul style="list-style-type: none"> <li>• Problem with cable connection or parameter setting during data communications.</li> </ul>	<ul style="list-style-type: none"> <li>• Check cable connection.</li> </ul>
Receive ERROR!	<ul style="list-style-type: none"> <li>• Problem with cable connection or parameter setting during data communications.</li> </ul>	<ul style="list-style-type: none"> <li>• Check cable connection.</li> </ul>
Memory Full!	<ul style="list-style-type: none"> <li>• Memory of receiving unit became full during program data communications.</li> </ul>	<ul style="list-style-type: none"> <li>• Delete some data stored in the receiving unit and try again.</li> </ul>

## Appendix D Input Ranges

Function	Input ranges	Internal digits	Accuracy	Notes
$\sin x$ $\cos x$ $\tan x$	(DEG) $ x  < 9 \times (10^9)^\circ$ (RAD) $ x  < 5 \times 10^7 \pi \text{rad}$ (GRA) $ x  < 1 \times 10^{10} \text{grad}$	15 digits	As a rule, accuracy is $\pm 1$ at the 10th digit.*	However, for $\tan x$ : $ x  \neq 90(2n+1)$ :DEG $ x  \neq \pi/2(2n+1)$ :RAD $ x  \neq 100(2n+1)$ :GRA
$\sin^{-1}x$ $\cos^{-1}x$	$ x  \leq 1$	"	"	
$\tan^{-1}x$	$ x  < 1 \times 10^{100}$	"	"	
$\sinh x$ $\cosh x$	$ x  \leq 230.2585092$	"	"	
$\tanh x$	$ x  < 1 \times 10^{100}$	"	"	
$\sinh^{-1}x$	$ x  < 5 \times 10^{99}$	"	"	
$\cosh^{-1}x$	$1 \leq x < 5 \times 10^{99}$	"	"	
$\tanh^{-1}x$	$ x  < 1$	"	"	
$\log x$ $\ln x$	$1 \times 10^{-99} \leq x < 1 \times 10^{100}$	"	"	
$10^x$	$-1 \times 10^{100} < x < 100$	"	"	
$e^x$	$-1 \times 10^{100}$ $< x \leq 230.2585092$	"	"	
$\sqrt{x}$	$0 \leq x < 1 \times 10^{100}$	"	"	
$x^2$	$ x  < 1 \times 10^{50}$	"	"	
$1/x$	$ x  < 1 \times 10^{100}, x \neq 0$	"	"	
$\sqrt[3]{x}$	$ x  < 1 \times 10^{100}$	"	"	
$x!$	$0 \leq x \leq 69$ (x is an integer)	"	"	
$nPr$ $nCr$	Result $< 1 \times 10^{100}$ $n, r$ (n and r are integers) $0 \leq r \leq n,$ $n < 1 \times 10^{10}$	"	"	
Pol (x, y)	$\sqrt{x^2 + y^2} < 1 \times 10^{100}$	"	"	

Function	Input ranges	Internal digits	Accuracy	Notes
Rec ( $r, \theta$ )	$ r  < 1 \times 10^{100}$ (DEG) $ \theta  < 9 \times (10^9)^\circ$ (RAD) $ \theta  < 5 \times 10^7 \pi$ rad (GRA) $ \theta  < 1 \times 10^{10}$ grad	15 digits	As a rule, accuracy is $\pm 1$ at the 10th digit.*	However, for $\tan \theta$ : $ \theta  \neq 90(2n+1)$ :DEG $ \theta  \neq \pi/2(2n+1)$ :RAD $ \theta  \neq 100(2n+1)$ :GRA
$\circ, \dots$  $\leftarrow$ $\circ, \dots$	$ a , b, c < 1 \times 10^{100}$ $0 \leq b, c$  $ x  < 1 \times 10^{100}$ Sexagesimal display: $ x  < 1 \times 10^7$	"	"	
$^{\wedge}(x^y)$	$x > 0$ : $-1 \times 10^{100} < y \log x < 100$ $x = 0 : y > 0$ $x < 0$ : $y = n, \frac{1}{2n+1}$ ( $n$ is an integer or a fraction) However; $-1 \times 10^{100} < y \log  x  < 100$	"	"	
$^x \sqrt{y}$	$y > 0 : x \neq 0$ $-1 \times 10^{100} < \frac{1}{x} \log y < 100$ $y = 0 : x > 0$ $y < 0 : x = 2n + 1, \frac{1}{n}$ ( $n \neq 0, n$ is an integer or a fraction) However; $-1 \times 10^{100} < \frac{1}{x} \log  y  < 100$	"	"	
$a^b/c$	Total of integer, numerator and denominator must be within 10 digits (includes division marks).	"	"	
STAT	$ x  < 1 \times 10^{50}$ $ y  < 1 \times 10^{50}$ $ n  < 1 \times 10^{100}$ $x\sigma_n, y\sigma_n, \bar{x}, \bar{y}, a, b, c, d, e, r$ : $n \neq 0$ $x\sigma_{n-1}, y\sigma_{n-1}: n \neq 0, 1$	"	"	

## Appendix D Input Ranges

Function	Input ranges
Binary, octal, decimal, hexadecimal calculation	Values fall within following ranges after conversion: DEC: $-2147483648 \leq x \leq 2147483647$ BIN: $1000000000000000 \leq x \leq 1111111111111111$ (negative) $0 \leq x \leq 0111111111111111$ (0, positive) OCT: $20000000000 \leq x \leq 37777777777$ (negative) $0 \leq x \leq 17777777777$ (0, positive) HEX: $80000000 \leq x \leq FFFFFFFF$ (negative) $0 \leq x \leq 7FFFFFFF$ (0, positive)

\* For a single calculation, calculation error is  $\pm 1$  at the 10th digit. (In the case of exponential display, calculation error is  $\pm 1$  at the last significant digit.) Errors are cumulative in the case of consecutive calculations, which can also cause them to become large. (This is also true of internal consecutive calculations that are performed in the case of  $\wedge(x^y)$ ,  $^x\sqrt{y}$ ,  $x!$ ,  $^3\sqrt{x}$ ,  $nPr$ ,  $nCr$ , etc.) In the vicinity of a function's singular point and point of inflection, errors are cumulative and may become large.

# Appendix E Specifications

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**Variables:** 28

**Calculation range:**

$\pm 1 \times 10^{-99}$  to  $\pm 9.999999999 \times 10^{99}$  and 0. Internal operations use 15-digit mantissa.

**Exponential display range:** Norm 1:  $10^{-2} > |x|, |x| \geq 10^{10}$

Norm 2:  $10^{-9} > |x|, |x| \geq 10^{10}$

**User memory capacity:**

fx-9750G PLUS	.....	28,000 bytes (max.)
CFX-9850G PLUS	.....	30,000 bytes (max.)
CFX-9850GB PLUS	.....	30,000 bytes (max.)
CFX-9850GC PLUS	.....	61,000 bytes (max.)
CFX-9950GB PLUS	.....	61,000 bytes (max.)

**Power supply:**

**Main:** Four AAA-size batteries (LR03 (AM4) or R03 (UM-4))

**Back-up:** One CR2032 lithium battery

**Power consumption:** 0.06W

**Approximate battery life**

**Main (fx-9750G PLUS):**

LR03 (AM4): 420 hours (continuous display of main menu)  
350 hours continuous operation (5 minutes calculation, 55 minutes display)

R03 (UM-4): 240 hours (continuous display of main menu)  
200 hours continuous operation (5 minutes calculation, 55 minutes display)

**Main (CFX-9850G PLUS / CFX-9850GB PLUS / CFX-9850GC PLUS / CFX-9950GB PLUS):**

LR03 (AM4): 320 hours (continuous display of main menu)  
280 hours continuous operation (5 minutes calculation, 55 minutes display)

R03 (UM-4): 180 hours (continuous display of main menu)  
160 hours continuous operation (5 minutes calculation, 55 minutes display)

**Back-up:** 2 years

**Auto power off:**

Power is automatically turned off approximately 6 minutes after last operation except when drawing dynamic graphs.

The calculator automatically turns off if it is left for about 60 minutes with a calculation stopped by an output command (▲), which is indicated by the “-Disp-” message on the display.

**Ambient temperature range:** 0°C to 40°C

**Dimensions:** 24.5 mm (H) × 90.0 mm (W) × 182.5 mm (D)  
 $1\frac{5}{16}$ " (H) ×  $3\frac{9}{16}$ " (W) ×  $7\frac{3}{16}$ " (D)

**Weight:** 215g (7.58 oz) (including batteries)

### Data Communications

**Functions:**

Program contents and file names; function memory data; matrix memory data; list data; variable data; Table & Graph data; graph functions; equation calculation coefficients

**Method:** Start-stop (asynchronous), half-duplex

**Transmission speed (BPS):** 9600 bits/second

**Parity:** none

**Bit length:** 8 bits

**Stop bit:**

Send: 3 bits

Receive: 2 bits

X ON/X OFF Control: None

# Index

## Symbols

$\Delta$ List .....	242
$\Sigma$ calculation .....	65
$\Sigma$ display .....	7, 224
$\chi^2$ Test .....	276, 289

## A

Absolute value .....	69, 96
Active screen .....	168
Amortization of a loan .....	341
Analysis of variance .....	292
Analyzing a function graph .....	145
And .....	78
Angle unit .....	5, 14, 44
Annual percentage rate .....	345
ANOVA .....	277, 292
Answer Function .....	39
Argument .....	69
Arithmetic calculations .....	36
Asymptotes .....	202
Auto power off function .....	435
Auto View Window .....	135
Axis of symmetry .....	202

## B

Backup data .....	407
Bar Graph .....	257
Binary, octal, decimal, or hexadecimal calculation .....	74
Binomial distribution .....	313
Bitwise operations .....	78
Borrowing power .....	335
Box zoom .....	133
BPS .....	403
Broken line graph .....	259
Bug .....	358

Built in function .....	123, 194
-------------------------	----------

## C

Calculation execution indicator .....	10
Calculation priority sequence .....	16
Carriage return .....	373
Cell .....	233
Center .....	200
Central difference .....	56
Chi-square distribution .....	310
Clear commands .....	382
Coefficient of determination .....	261
Color tint .....	11
Combination .....	48
Comment text .....	164
Communications parameter .....	403
Complex numbers .....	67
Compound interest calculations .....	326
Conditional jump relational operators ....	387
Confidence interval .....	294
Confidence level .....	294
Conic section .....	194
CONICS Mode .....	194
Conjugate complex number .....	70
Connect type .....	128
Constant term .....	261
Continuous calculations .....	39
Contrast .....	11
Convergence .....	225
Conversion .....	345
Coordinate .....	149
Coordinate conversion .....	44, 48
Coordinate rounding .....	136
Copying a table column to a list .....	216
Correlation coefficient .....	261
Cost .....	347
Count jump .....	380

# Index

Cubic equation .....	104
Cubic regression .....	262
Cumulative frequency .....	241

## D

Data communications .....	399
Data transfer operation .....	404
Day/Date calculations .....	349
Debugging .....	358
Degrees .....	14
Derivative in conic section graph .....	7
Derivative value .....	5, 129, 209
Determinant .....	93
Differential calculations .....	55
Differential numeric table .....	209
Dimension .....	80
Directrix .....	202
Display .....	8
Display colors .....	8
Display commands .....	383
Display format .....	6, 14
Distribution .....	304
Distribution probability .....	304
Divergence .....	225
Drawing a circle .....	162
Drawing a line .....	160
Drawing vertical and horizontal lines .....	163
Dual screen .....	7, 168, 176, 215
DYNA Mode .....	182
Dynamic graph .....	181
Dynamic graph locus .....	7, 188
Dynamic graph type .....	7, 186

## E

Editing calculations .....	20
Editing list values .....	233
Effective interest rate .....	336, 345

Ellipse .....	197
Eng .....	15
Engineering notation .....	15, 44, 50
EQUA Mode .....	100
Error message .....	436
Errors .....	19
Estimated values .....	272
Exponential display .....	9, 15, 37
Exponential function .....	46
Exponential regression graph .....	263

## F

<i>F</i> distribution .....	312
<i>F</i> Test .....	277, 290
Factor zoom .....	134
Fibonacci series .....	220
File name .....	353
Financial calculations .....	321
First quartile .....	260
Fix .....	14, 37
Focus .....	197
Fraction .....	10, 49
Fraction part .....	96
Freehand drawing .....	163
Frequency .....	253
Function memory .....	23
Function menu .....	43

## G

Gauss-Kronrod rule .....	60
Gaussian plane .....	69
Generating a table .....	208
Geometric distribution .....	317
Grads .....	14
Graph axis .....	6, 121
Graph axis labels .....	6, 121
Graph background .....	6, 140



Graph drawing type .....	5, 128
Graph function display .....	6, 187
Graph function menu .....	112
Graph gridlines .....	6, 121
Graph memory .....	122
GRAPH Mode .....	112, 168, 176
Graph pointer coordinates .....	6, 130
Graph range adjustment .....	136
Graph solve .....	143
Graphic display .....	20
Graphing in a specific range .....	131

## H

Hexadecimal values .....	10
Histogram .....	257
Hyperbola .....	196
Hyperbolic function .....	27, 46

## I

Icon .....	3
Identity matrix .....	93
Imaginary part .....	70
Inactive screen .....	168
Inequality .....	118
Input command .....	372
Input, output and operation limitations .....	18
Input/output commands .....	385
Input ranges .....	438
Inputting calculations .....	16
Installment savings .....	329
Integer function .....	137
Integer part .....	96
Integral .....	150
Integration calculation .....	6, 60
Integration graph .....	127
Interest rate .....	334
Inverse hyperbolic function .....	46

Inverse trigonometric function .....	45
Investment appraisal .....	337

## J

Jump commands .....	380
---------------------	-----

## K

Key markings .....	2
--------------------	---

## L

Latus rectum .....	200
Line graph color .....	6
Line menu .....	160
Line normal to a curve .....	156
Linear equations with two to six unknowns .....	101
Linear recursion between three terms ...	218
Linear recursion between two terms .....	218
Linear regression graph .....	261
LinearReg $t$ Test .....	287
LINK Mode .....	403
List .....	229
List file specification .....	7, 248
LIST Mode .....	231
Loans .....	329
Local maximum values and local minimum values .....	146
Logarithmic function .....	46
Logarithmic regression graph .....	263
Logical operator .....	51
Logistic regression graph .....	265
Low battery .....	12

## M

Main power supply batteries .....	433
Main routine .....	378

# Index

Making corrections .....	41
Margin .....	348
MAT Mode .....	80
Matrix answer memory .....	80
Matrix arithmetic operation .....	92
Matrix cell operation .....	83
Matrix data input format .....	88
Matrix inversion .....	95
Matrix row operation .....	85, 389
Matrix transposition .....	94
Maximum .....	260
Maximum integer .....	96
Maximum value in a list .....	239
Maximum/minimum value calculation .....	63
Mean .....	240
Mean of data .....	259
Mean-box graph .....	258
Med-box graph .....	257
Med-Med graph .....	261
Median .....	240, 260
Memory .....	22
Memory back up battery .....	434
Memory capacity .....	19
Memory status .....	24
Menu item .....	8
Minimum value in a list .....	239
Mode .....	260
Modifying matrices .....	90
Multiplication operation .....	17
Multi-statement command .....	373
Multistatements .....	41

## N

Negation .....	78
Newton's method .....	108, 328
Norm .....	15, 37
Normal distribution .....	305

Normal distribution curve .....	258
Normal probability graphing .....	275
Normal probability plot .....	255
Normal probability distribution calculations .....	273
Normalized variate .....	273
Not .....	78
Number of bytes .....	359
Number of days per year setting .....	7, 324, 349
Number system .....	76
Numeric calculations .....	43

## O

Option (OPTN) menu .....	27
Or .....	78
Outliers .....	258
Output command .....	372
Overflow .....	19
Overwrite .....	131

## P

Paired-variable statistics .....	251
Parabola .....	197
Parametric function .....	118, 191
Parentheses .....	36
Parity .....	403
Password .....	360
Payment period setting .....	7, 328
Percentage .....	242
Permutation .....	48
Picture memory .....	139
Pixel .....	165
Plot graph color .....	6
Plot type .....	128
Pointer .....	128
Points of intersection for two graphs .....	148

Poisson distribution .....	316
Polar coordinate function .....	117
Population standard deviation .....	259
Power regression graph .....	264
PRGM Mode .....	352
Principal .....	331
Probability density .....	304
Probability/distribution calculations .....	43
Product of values .....	241
Program (PRGM) menu .....	34, 369
Program commands .....	373
Program control commands .....	378
Programming .....	351

## Q

Quadratic differential calculation .....	58
Quadratic equation .....	104
Quadratic regression .....	262
Quartic regression .....	262

## R

Radians .....	14
Radius .....	200
Raising a matrix to a power .....	96
Real part .....	70
Rectangular coordinate function .....	117
RECUR Mode .....	218
Recursion table & graph function ..	218, 393
Regression coefficient .....	261
Regression formula parameter .....	256
Relational operator .....	370
Replacing batteries .....	432
Replay function .....	40
RESET operation .....	12, 430
Residual calculation .....	6, 267
Root .....	145
Row swapping .....	83

RUN Mode .....	4
----------------	---

## S

Sample standard deviation .....	259
Savings .....	328, 331
Scalar multiplication .....	93
Scatter diagram .....	251
Sci .....	15
Scroll .....	130
Secret function .....	360
Selling price .....	348
Sequence .....	218
Set up screen .....	4
Sexagesimal operations .....	44
Sexagesimal values .....	10
Significant digits .....	15, 36
Simple interest calculations .....	324
Simpson's rule .....	60
Simultaneous graphing .....	7
Sine regression graph .....	264
Single-variable statistics .....	257
Sketch menu .....	154
Solve calculation .....	107, 394
Sorting list values .....	234
Squaring a matrix .....	96
Stacks .....	18
STAT Mode .....	250
Statistical data list .....	250
Statistical graph view window setting .....	6, 251
Statistical graphs and calculations .....	249, 395
Student- <i>t</i> distribution .....	308
Subroutine .....	378
Sum .....	241
Sum of data .....	259
Sum of squares .....	259
Symbol “[ ]” .....	21

# Index

## T

$t$ confidence interval .....	300
$t$ Test .....	276, 283
Table & graph .....	205
Table generation and graph draw settings .....	7, 208
TABLE Mode .....	206
Table range .....	207
Tangent .....	155
Tests .....	276
Text display .....	20, 388
Third quartile .....	260
Trace .....	128
Trigonometric function .....	45
TVM Mode .....	323
Type A functions .....	16
Type B functions .....	16

## V

Variable .....	22, 38
Variable data (VARS) menu .....	28
Vertex .....	197
View Window .....	113

## W

WEB graph .....	225
Whiskers .....	257

## X

$X = \text{constant expression}$ .....	118
Xnor .....	78
Xor .....	78
$xy$ line graph .....	255

## Y

$y$ -intercepts .....	147
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





## Z

Z confidence interval .....	295
Z Test .....	276, 277
Zoom .....	132



















# Command Index

Break .....	378
CirGraph .....	382
CirList .....	382
CirText .....	382
DispF-Tbl, DispR-Tbl .....	383
Do~LpWhile .....	377
DrawDyna .....	383
DrawFTG-Con, DrawFTG-Plt .....	383
DrawGraph .....	383
DrawR-Con, DrawR-Plt .....	384
DrawR $\Sigma$ -Con, DrawR $\Sigma$ -Plt .....	384
DrawStat .....	384
DrawWeb .....	384
Dsz .....	380
For~To~Next .....	375
For~To~Step~Next .....	376
Getkey .....	385
Goto~Lbl .....	380
If~Then .....	373
If~Then~Else .....	374
If~Then~Else~IfEnd .....	375
If~Then~IfEnd .....	374
Isz .....	381
Locate .....	385
Prog .....	378
Receive ( .....	386
Return .....	379
Send ( .....	387
Stop .....	379
While~WhileEnd .....	377
? (Input Command) .....	372
▲ (Output Command) .....	372
: (Multi-statement Command) .....	373
↵ (Carriage Return) .....	373
⇒ (Jump Code) .....	381
=, ≠, >, <, ≥, ≤ (Relational Operators) .....	387




















# Key Index

Key	Primary Function	combined with 	combined with 
Trace 	Turns trace function on/off. Selects 1st function menu item.		
Zoom 	Turns zoom function on. Selects 2nd function menu item.		
V-Window 	Displays View Window parameter input screen. Select 3rd function menu item.		
Sketch 	Displays sketch menu. Selects 4th function menu item.		
G-Solv 	Displays graph solve menu. Selects 5th function menu item.		
G ↔ T 	Switches display between graph & text screens. Selects 6th function menu item.		
	Activates shift functions of other keys and function menus.		
	Displays option menu.		
PRGM 	Displays the variable data menu.	Displays program command menu.	
SET UP 	Returns to the Main Menu.	Shows the set up display.	
 	Allows entry of alphanumeric characters shown in red.	Locks/Unlocks entry of alphanumeric characters.	
$\sqrt{\quad}$ 	Press after entering value to calculate square.	Press before entering value to calculate square root.	Enters character $r$ .
$\sqrt[\quad]{\quad}$ 	Press between two values to make second value exponent of first.	Press between entering values for X & Y to show $x$ th root of $y$ .	Enters character $\theta$ .
QUIT 	Backsteps to the previous menu.	Returns directly to initial screen of the mode.	
	Moves cursor upward. Scrolls screen.	Switches to previous function in trace mode.	
	Moves cursor downward. Scrolls screen.	Switches to next function in trace mode.	
	Moves cursor to left. Scrolls screen. Press after EXE to display calculation from end.		

# Key Index

Key	Primary Function	combined with 	combined with 
	Moves cursor to right. Scrolls screen. Press after EXE to display calculation from beginning.		
<sup>A</sup> 	Allows input of variable X, $\theta$ , and T.		Enters letter A.
<sup>10<sup>x</sup></sup> B 	Press before entering value to calculate common logarithm.	Press before entering exponent value of 10.	Enters letter B.
<sup>e<sup>x</sup></sup> C 	Press before entering value to calculate natural logarithm.	Press before entering exponent value of e.	Enters letter C.
<sup>sin<sup>-1</sup></sup> D 	Press before entering value to calculate sine.	Press before entering value to calculate inverse sine.	Enters letter D.
<sup>cos<sup>-1</sup></sup> E 	Press before entering value to calculate cosine.	Press before entering value to calculate inverse cosine.	Enters letter E.
<sup>tan<sup>-1</sup></sup> F 	Press before entering value to calculate tangent.	Press before entering value to calculate inverse tangent.	Enters letter F.
<sup>d/c</sup> G 	Press between entering fraction values. Converts fraction to decimal.	Displays improper fractions.	Enters letter G.
<sup>H</sup> 	Converts a fraction to a decimal value or a decimal value to a fraction. Sends a shot of the current screen to a connected device.		Enters letter H.
<sup>∛</sup> I 	Enters open parenthesis in formula.	Press before entering value to calculate cube root.	Enters letter I.
<sup>x<sup>-1</sup></sup> J 	Enters close parenthesis in formula.	Press after entering value to calculate reciprocal.	Enters letter J.
<sup>K</sup> 	Enters comma.		Enters letter K.
<sup>L</sup> 	Assigns value to a value memory name.		Enters letter L.
<sup>M</sup> 	Enters number 7.		Enters letter M.
<sup>N</sup> 	Enters number 8.		Enters letter N.
<sup>O</sup> 	Enters number 9.		Enters letter O.

# Key Index

Key	Primary Function	combined with 	combined with 
	Deletes character at current cursor location.	Allows insertion of characters at cursor location.	
	Turns power on. Clears the display.	Turns power off.	
	Enters number 4.		Enters letter P.
	Enters number 5.		Enters letter Q.
	Enters number 6.		Enters letter R.
	Multiplication function.	Enters open curly bracket.	Enters letter S.
	Division function.	Enters close curly bracket.	Enters letter T.
	Enters number 1.		Enters letter U.
	Enters number 2.		Enters letter V.
	Enters number 3.		Enters letter W.
	Addition function. Specifies positive value.	Enters open bracket.	Enters letter X.
	Subtraction function. Specifies negative value.	Enters close bracket.	Enters letter Y.
	Enters number 0.		Enters letter Z.
	Enters decimal point.	Enters character =.	Enters a blank space.
	Allows entry of exponent.	Inputs value of pi. Enters pi symbol.	
	Enter before value to specify as negative.	Recalls most recent calculation result.	
	Displays result of calculation.	Inputs a new line.	



# Program Mode Command List

[SETUP] key				
Level 1	Level 2	Level 3	Command	
ANGL	Deg		Deg	
	Rad		Rad	
	Gra		Gra	
COORD	On		CoordOn	
	Off		CoordOff	
GRID	On		GridOn	
	Off		GridOff	
AXES	On		AxesOn	
	Off		AxesOff	
LABL	On		LabelOn	
	Off		LabelOff	
DISP	Fix		Fix	
	Sci		Sci	
	Norm		Norm	
	Eng		Eng	
P/L	Blue		P/L-Blue	
	Orng		P/L-Orange	
	Grn		P/L-Green	
DRAW	Con		G-Connect	
	Plot		G-Plot	
DERV	On		DerivOn	
	Off		DerivOff	
BACK	None		BG-None	
	Pict		BG-Pict	
FUNC	On		FuncOn	
	Off		FuncOff	
SIML	On		SimulOn	
	Off		SimulOff	
S-WIN	Auto		S-WindAuto	
	Man		S-WindMan	
LIST	File1		File1	
	File2		File2	
	File3		File3	
	File4		File4	
	File5		File5	
	File6		File6	
LOCS	On		LocusOn	
	Off		LocusOff	
T-VAR	Rang		VarRange	
	LIST	List1		VarList1
		List2		VarList2
		List3		VarList3
		List4		VarList4
		List5		VarList5
		List6		VarList6
Σ DSP	On		Σ dispOn	
	Off		Σ dispOff	
RESID	None		Resid-None	
	List		Resid-List	

[VARS] key				
Level 1	Level 2	Level 3	Command	
V-WIN	X	min	Xmin	
		max	Xmax	
		scal	Xscal	
		Y	min	Ymin
			max	Ymax
			scal	Yscal
	T, θ	min	Tθ min	
		max	Tθ max	
		ptch	Tθ ptch	
	R-X	min	RightXmin	
		max	RightXmax	
		scal	RightXscal	
	R-Y	min	RightYmin	
		max	RightYmax	
		scal	RightYscal	
	R-T, θ	min	RightTθ min	
		max	RightTθ max	
		ptch	RightTθ ptch	
FACT	Xfct		Xfct	
	Yfct		Yfct	
STAT	X	n	n	
		$\bar{x}$	$\bar{x}$	
		$\Sigma x$	$\Sigma x$	
		$\Sigma x^2$	$\Sigma x^2$	
		$x_{cn}$	$x_{cn}$	
		$x_{cn-1}$	$x_{cn-1}$	
		minX	minX	
		maxX	maxX	
		Y	$\bar{y}$	$\bar{y}$
	$\Sigma y$		$\Sigma y$	
	$\Sigma y^2$		$\Sigma y^2$	
	$\Sigma xy$		$\Sigma xy$	
	$y_{cn}$		$y_{cn}$	
	$y_{cn-1}$		$y_{cn-1}$	
	GRPH	minY	minY	
maxY		maxY		
a		a		
b		b		
c		c		
d		d		
GRPH	e	e		
	r	r		
	Q1	Q1		
	Med	Med		
	Q3	Q3		
	Mod	Mod		
	Strt	H_Start		
Pitch	H_pitch			

PTS	x1	x1	
	y1	y1	
	x2	x2	
	y2	y2	
	x3	x3	
	y3	y3	
	TEST	n	n
		$\bar{x}$	$\bar{x}$
		$x_{cn-1}$	$x_{cn-1}$
		n1	n1
		n2	n2
		$\bar{x}_1$	$\bar{x}_1$
		$\bar{x}_2$	$\bar{x}_2$
		$x_{1\sigma}$	$x_{1\sigma-1}$
		$x_{2\sigma}$	$x_{2\sigma-1}$
$x_{p\sigma}$		$x_{p\sigma-1}$	
F		F	
Fdf		Fdf	
SS		SS	
MS		MS	
RESLT		Edf	Edf
	SSE	SSE	
	MSe	MSe	
	p	p	
	z	z	
	t	t	
	Chi	$\chi^2$	
	F	F	
	Left	Left	
	Right	Right	
	$\hat{p}$	$\hat{p}$	
	$\hat{p}_1$	$\hat{p}_1$	
	$\hat{p}_2$	$\hat{p}_2$	
	df	df	
	s	s	
r	r		
r <sup>2</sup>	r <sup>2</sup>		
GRPH	Y	Y	
	r	r	
	Xt	Xt	
	Yt	Yt	
	X	X	
DYNA	Strt	D_Start	
	End	D_End	
	Pitch	D_pitch	
TABL	Strt	F_Start	
	End	F_End	
	Pitch	F_pitch	
	Reslt	F_Result	

RECR	FORM	an	an
		an+1	an+1
		an+2	an+2
		bn	bn
		bn+1	bn+1
	bn+2	bn+2	
	RANG	Strt	R_Start
		End	R_End
		a0	a0
		a1	a1
a2		a2	
EQUA	b0	b0	
	b1	b1	
	b2	b2	
	anSt	anStart	
	bnSt	bnStart	
TVM	Result	R_Result	
	S-Rlt	Sim_Result	
	S-Cof	Sim_Coef	
	P-Rlt	Ply_Result	
	P-Cof	Ply_Coef	
TVM	n	n	
	I%	I%	
	PV	PV	
	PMT	PMT	
	FV	FV	
P/Y	P/Y		
C/Y	C/Y		

[PRGM] key			
Level 1	Level 2	Level 3	Command
COM	If	If_	
	Then	Then_	
	Else	Else_	
	I-End	IFEnd	
	For	For_	
	To	To_	
	Step	Step_	
	Next	Next	
	While	While_	
	WEnd	WhileEnd	
	Do	Do	
	Lp-W	LpWhite_	
CTL	Prog	Prog_	
	Rtrn	Return	
	Brk	Break	
	Stop	Stop	
	?	?	
JUMP	Lbl	Lbl_	
	Goto	Goto_	
	=>	=>	
	Isz	Isz_	
	Dsz	Dsz_	
?	?		
CLR	Text	ClrText	
	Grph	ClrGraph	
	List	ClrList	
DISP	Stat	DrawStat	
	Grph	DrawGraph	
	Dyna	DrawDyna	
	F-Tbl	Tabl DispF-Tbl	
		G-Con DrawFTG-Con	
		G-Pit DrawFTG-Pit	
	R-Tbl	Tabl DispR-Tbl	
		Web DrawWeb_	
		an-Cn DrawR-Con	
		Σa-Cn DrawR Σ-Con	
	an-Pi DrawR-Pit		
	Σa-Pi DrawR Σ -Pit		
REL	=	=	
	≠	≠	
	>	>	
	<	<	
	≥	≥	
I/O	Lcte	Locate	
	Gtky	GetKey	
	Send	Send(	
	Recv	Receive(	
	:	:	

[SHIFT] key			
Level 1	Level 2	Level 3	Command
ZOOM	Fact	Factor_	
	V-Win	V-Win	ViewWindow_
	Sto	StoV-Win	
V-WIN	Rcl	RclV-Win	
	Clc	Clc	
	Tang	Tangent	
SKTCH	Norm	Normal_	
	Inv	Inverse	
	GRPH	Y= Graph_Y=	
	r= Graph_r=		
	Parm Graph(X,Y)=(		
	X=c Graph_X=		
	G-/dx Graph_ /		
	Y> Graph_Y>		
	Y< Graph_Y<		
	Y≥ Graph_Y≥		
	Y≤ Graph_Y≤		
PLOT	Plot	Plot	
	Pl-On	PlotOn_	
	Pl-Off	PlotOff_	
	Pl-Chg	PlotChg_	
LINE	Line	Line	
	F-Line	F-Line_	
Crcl	Circle		
Vert	Vertical		
Hztl	Horizontal		
Text	Text		
PIXL	On	PxlOn_	
	Off	PxlOff_	
	Chg	PxlChg_	
Test		PxlTest	

[F4](MENU) key			
Level 1	Level 2	Level 3	Command
STAT	DRAW	On	DrawOn
		Off	DrawOff
	GRPH	GPH1	S-Gph1_
GPH2		S-Gph2_	
GPH3		S-Gph3_	
Scat		Scatter	
xy		xyLine	
Hist		Hist	
Box		MedBox	
Box		MeanBox	
N-Dis		N-Dist	
Brkn		Broken	
X		Linear	
Med		Med-Med	
X^2		Quad	
X^3		Cubic	
X^4		Quart	
Log		Log	
Exp		Exp	
Pwr		Power	
Sin		Sinusoidal	
NPP		NPPlot	
Lgst	Logistic		
LIST	List1	List1	
	List2	List2	
	List3	List3	
	List4	List4	
	List5	List5	
MARK	List6	List6	
	□	Square	
	×	Cross	
	•	Dot	
COLR	Blue	Blue_	
	Orng	Orange	
	Grn	Green	
CALC	1VAR	1-Variable_	
	2VAR	2-Variable_	
	X	LinearReg_	
	Med	Med-MedLine	
	X^2	QuadReg_	
	X^3	CubicReg_	
	X^4	QuartReg_	
	Log	LogReg_	
	Exp	ExpReg_	
	Pwr	PowerReg_	
Sin	SinReg_		
Lgst	LogisticReg_		
MAT	Swap	Swap_	
	×Rw	*Row_	
	×Rw+	*Row+_	
	Rw+	Row+_	

LIST	Srt-A	SortA(	
	Srt-D	SortD(	
GRPH	SEL	On G_SelOn_	
		Off G_SelOff_	
	TYPE	Y=	Y=Type
		r=	r=Type
		Parm	ParamType
		X=c	X=cType
		Y>	Y>Type
		Y<	Y<Type
	Y≥	Y≥Type	
	Y≤	Y≤Type	
COLR	Blue	BlueG	
	Orng	OrangeG	
		GreenG	
GMEM	Sto	StoGMEM_	
	Rcl	RclGMEM_	
DYNA	On	D_SelOn	
	Off	D_SelOff_	
	Var	D_Var_	
	TYPE	Y= Y=Type	
	r= r=Type		
	Parm ParamType		
TABL	On	T_SelOn_	
	Off	T_SelOff_	
	TYPE	Y= Y=Type	
		r= r=Type	
		Parm ParamType	
RECR	Blue	BlueG	
	Orng	OrangeG	
	Grn	GreenG	
	SEL+C	On R_SelOn	
		Off R_SelOff_	
		Blue BlueG	
		Orng OrangeG	
		Grn GreenG	
	SEL (b-97506 PLUS)	On R_SelOn	
		Off R_SelOff_	
TYPE	an anType		
	an+1 an+1Type		
	an+2 an+2Type		
n.an.	n n		
	an an		
	an+1 an+1		
	bn bn		
	bn+1 bn+1		

[F6](SYBL) key			
Level 1	Level 2	Level 3	Command
'			'
"			"
~			~
*			*
/			/
#			#

[ALPHA] key			
Level 1	Level 2	Level 3	Command
'			'
"			"
~			~

[OPTN] key				
Level 1	Level 2	Level 3	Command	
LIST	List		List_	
	L→M		List→Mat(	
	Dim		Dim_	
	Fill		Fill(	
	Seq		Seq(	
	Min		Min(	
	Max		Max(	
	Mean		Mean(	
	Med		Median(	
	Sum		Sum_	
	Prod		Prod_	
	Cuml		Cuml_	
	%		Percent_	
	Δ		ΔList_	
	MAT	Mat		Mat_
		M→L		Mat→List(
		Det		Det_
Trn			Trn_	
Aug			Augment(	
Iden			Identity_	
Dim			Dim_	
Fill			Fill(	
CPLX	i		i_	
	Abs		Abs_	
	Arg		Arg_	
	Conj		Conjg_	
	ReP		ReP_	
	ImP		ImP_	
CALC	Solve		Solve(	
	d/dx		d/dx(	
	d²/dx²		d²/dx²(	
	∫ dx		∫(	
	FMin		FMin(	
	FMax		FMax(	
	Σ(		Σ(	
STAT	$\bar{x}$		$\bar{x}$	
	$\bar{y}$		$\bar{y}$	
COLR ↕	Orng		Orange_	
	Grn		Green_	
HYP	sinh		sinh_	
	cosh		cosh_	
	tanh		tanh_	
	sinh <sup>-1</sup>		sinh <sup>-1</sup> _	
	cosh <sup>-1</sup>		cosh <sup>-1</sup> _	
	tanh <sup>-1</sup>		tanh <sup>-1</sup> _	

PROB	X!		!
	nPr		P
	nCr		C
	Ran#		Ran#
	P(		P(
NUM	Q(		Q(
	R(		R(
	t(		t(
	Abs		Abs_
	Int		Int_
ANGL	Frac		Frac_
	Rnd		Rnd
	Intg		Intg_
	°		°
	r		r
ESYM	g		g
	° "		□
	Pol(		Pol(
	Rec(		Rec(
	m		m
PICT	μ		μ
	n		n
	p		p
	f		f
	k		k
	M		M
	G		G
	T		T
	P		P
	E		E
FMEM	Sto		StoPict_
	Rcl		RclPict_
	fn	f1	f1
		f2	f2
		f3	f3
		f4	f4
LOGIC		f5	f5
		f6	f6
	And		And_
Or		Or_	
Not		Not_	



**GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).**

## **NOTICE**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **FCC WARNING**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Proper connectors must be used for connection to host computer and/or peripherals in order to meet FCC emission limits.

Connector SB-62  
Connector FA-123

Power Graphic Unit to Power Graphic Unit  
Power Graphic Unit to PC for IBM/Macintosh Machine

## **Declaration of Conformity**

Model Number: fx-9750G PLUS/CFX-9850G PLUS/CFX-9850GB PLUS/CFX-9950GB PLUS  
Trade Name: CASIO COMPUTER CO., LTD.  
Responsible party: CASIO, INC.  
Address: 570 MT. PLEASANT AVENUE, DOVER, NEW JERSEY 07801  
Telephone number: 973-361-5400

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**CASIO®**

**CASIO COMPUTER CO., LTD.**

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