### **Calculator review**

Below in this document are the handbooks for 2 common low-cost scientific calculators which one can buy in South Africa and Botswana. The handbooks supplied are flimsy and easily damaged or lost, so this duplication of their handbooks / user manuals hopefully will help people.

#### The calculators are:

- 1. From the Clicks chain of shops the Safeway SW82, which takes 2 x AA batteries (supplied but NOT working), and even works with rechargeable batteries. P30 or approx. US\$ 4
- 2. From the PEP chain of shops the KK1206E which takes 2 x AG13 (supplied and working) small and fiddley watch batteries. Pula 20 or approx. US\$ 3.

Comparison – both seem to offer exactly the same functionality. The KK has a much better sliding case and decent protection. The SW82 will need to be used

with one or two strong rubber bands (not supplied). The batteries in the SW82 were date expired and not functioning when the test calculator was purchased. The second functions on the SW82 were very readable whereas the KK's second functions – being pale red on grey – were difficult to see and read. The manual for the SW82 seems longer and more comprehensive, but the manuals to some extent are interchangeable anyway. The display on both seems the same and the decimal places and display length are the same. In fact I guess they use the same chip (IC) and maybe the same display.

I checked a few exp, In etc functions against excel – the same results came out of both calculators and my PC.

The SW82 handbook is 32 pages and is marked with a footer. The KK1206E handbook is 12 pages and was not really suitable for marking with a footer.

Summary – the choice is down to the batteries and the keyboard. I guess I would personally choose the SW82 since it is better on both those counts, although the KK

is more attractive case-wise and price-wise. If you buy the SW82, then open and switch it on before leaving the shop (Clicks) – then if like mine your batteries are expired they will hopefully replace for you free of charge (I didn't do this).

http://cd3wd.com alexweir1949@gmail.com +267 738 15632

Alex Weir, Plot 25500, Block 9, Gaborone, Botswana. Monday 23 January 2012

### Dear customer.

- -Thank you very much for purchasing our electronic calculator.
- To fully utilize its features no special training is required, but we suggest you study this operation manual to become familiar with many abilities
- To help ensure its longenty do not touch the inside of the calculator, avoid hard knocks and unduly strong key pressing. Extreme cold (BELOW 32° or 0°C), heat (above 104F or 40°C) and humidity may also affect the funcitions of the calculator. Never use volatile fluid such as lacpuer thinner, benzine, etc. when cleaning the unit. FOR servicing, contact your retailer or nearby dealer.

Before starting calculation, be suer to press the ON/C key and

to confirm that "O" is shown in the display

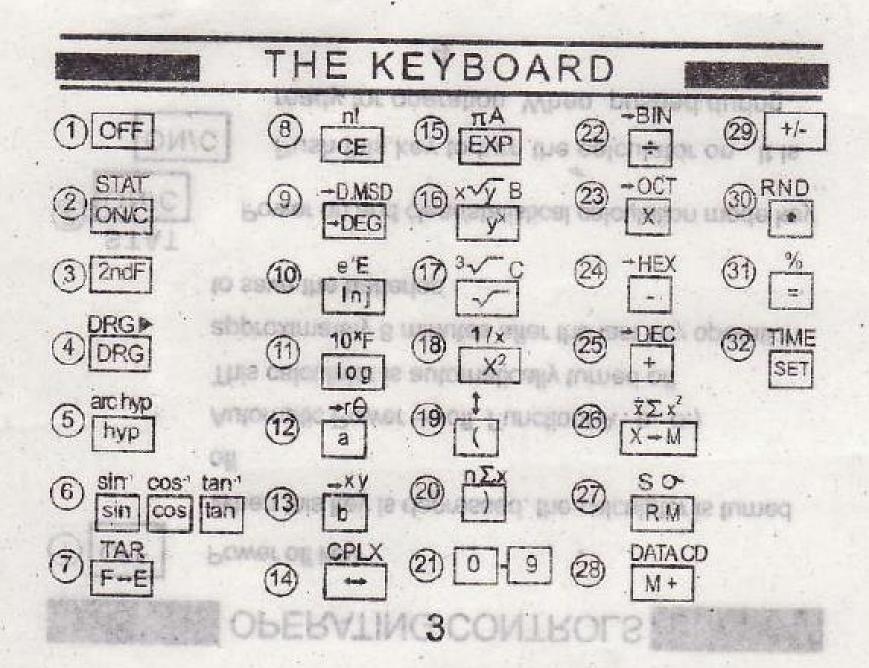
Special care should be taken not to damage the nuit by bending or
dropping. For example do not carry it in your hip packet.

with many abilities.

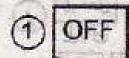
— To help ensure its tongenty do not teach the inside of the calculator, evoid hard knocks and unduly strong key pressing. Extreme cold (BELOW 32' or 0°C), heat (above 194F or 50°C) lend humidity may also affect the functions of the estruistor. Never use votable fluid such as tecpuer trianer, barraine, etc. when idearing the test FOR servicing contact.

— To fully ullibre its feetures no apacial training is required, but we suggest you study this operation manual to become familiar.

Dear customer, 5 --- Thank you very much for purchasing our electronic



# OPERATING CONTROLS



Power off key

When this key is depressed, the calculator is turned off

Automatic Power — off Function(A.p.o.)

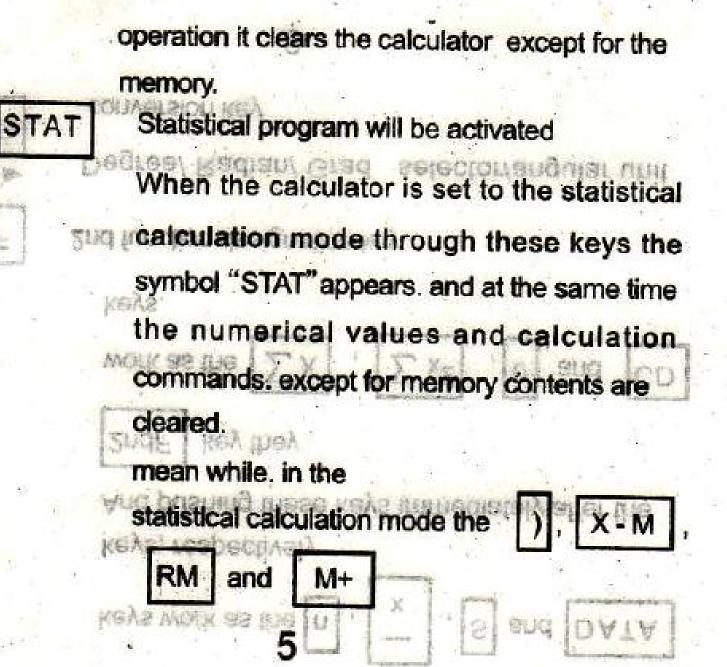
This calculator is automatically turned off approximately 8 minutes affer the last key operation to save the batteries

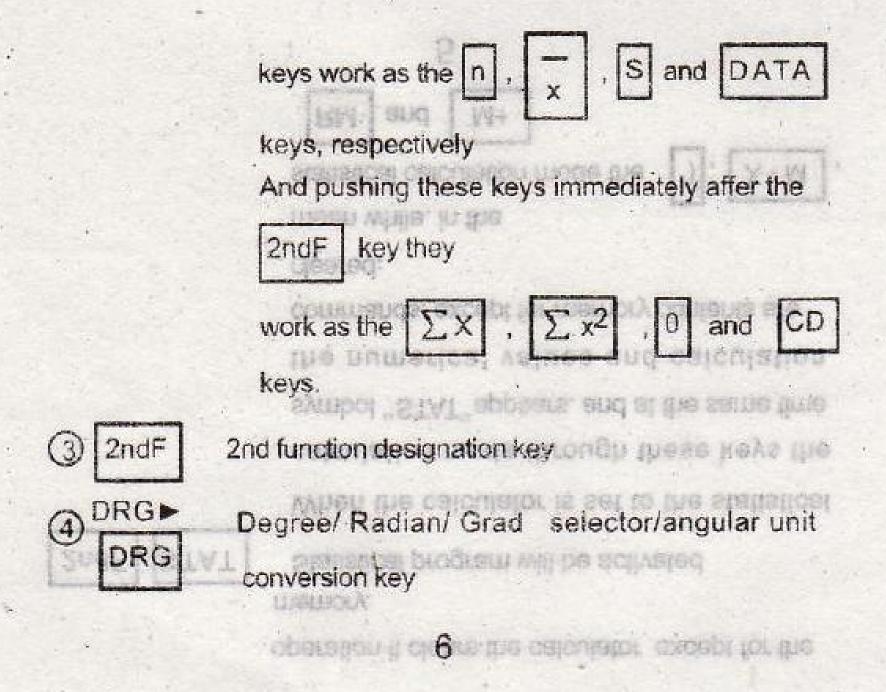


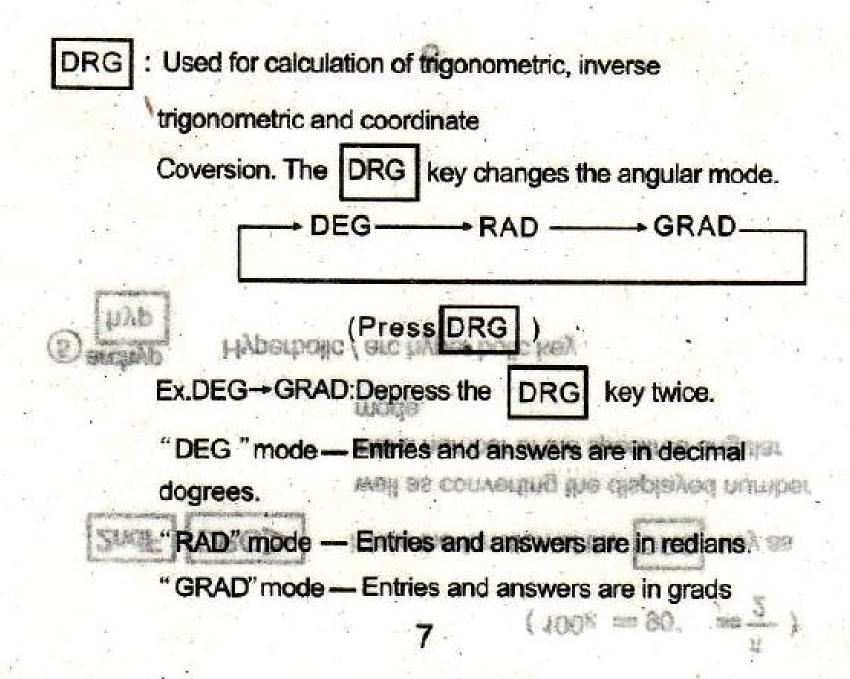
Power on and clear/statistical calculation mode key

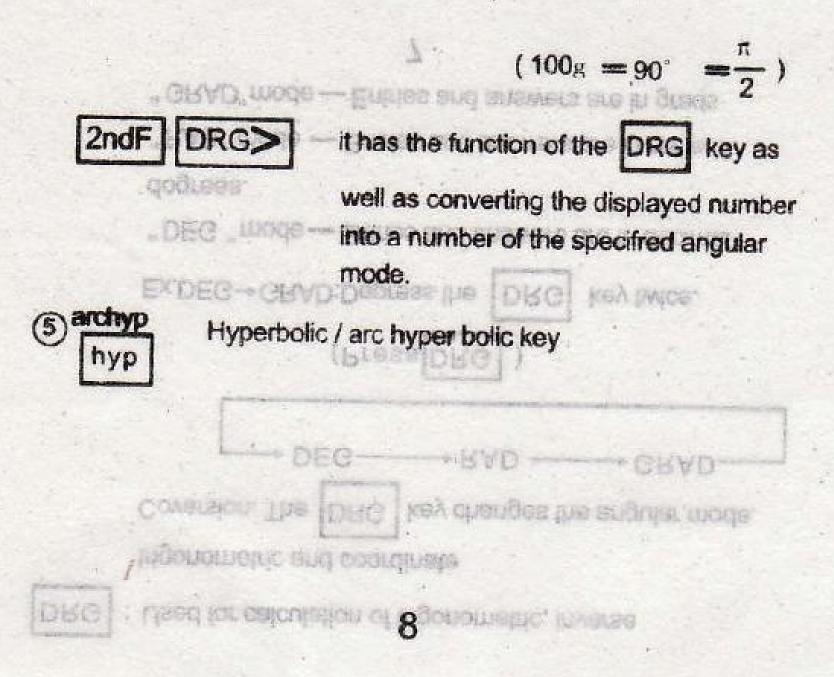
ON/C

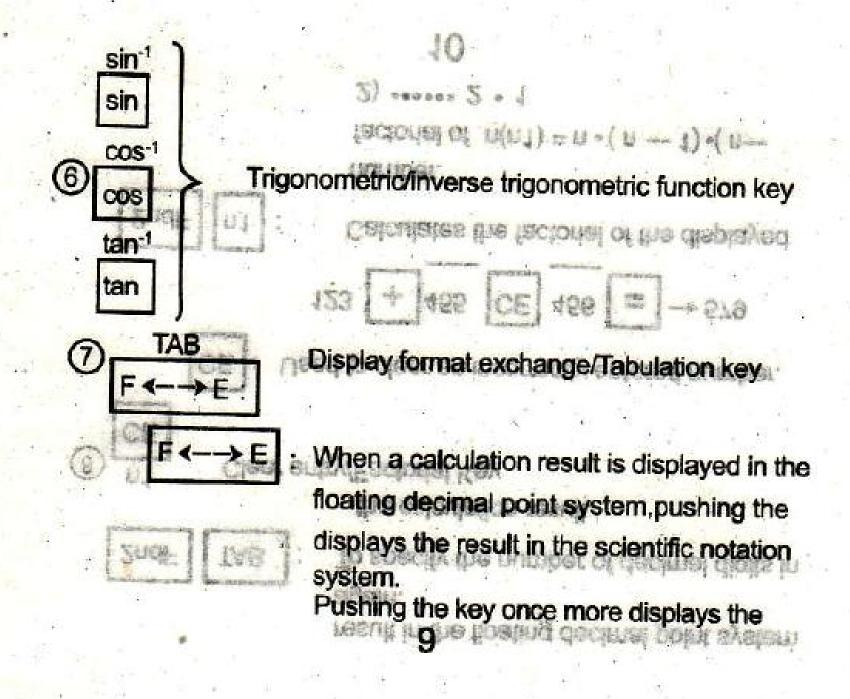
Push this key to turn the calculator on . it is ready for operation. When pushed during

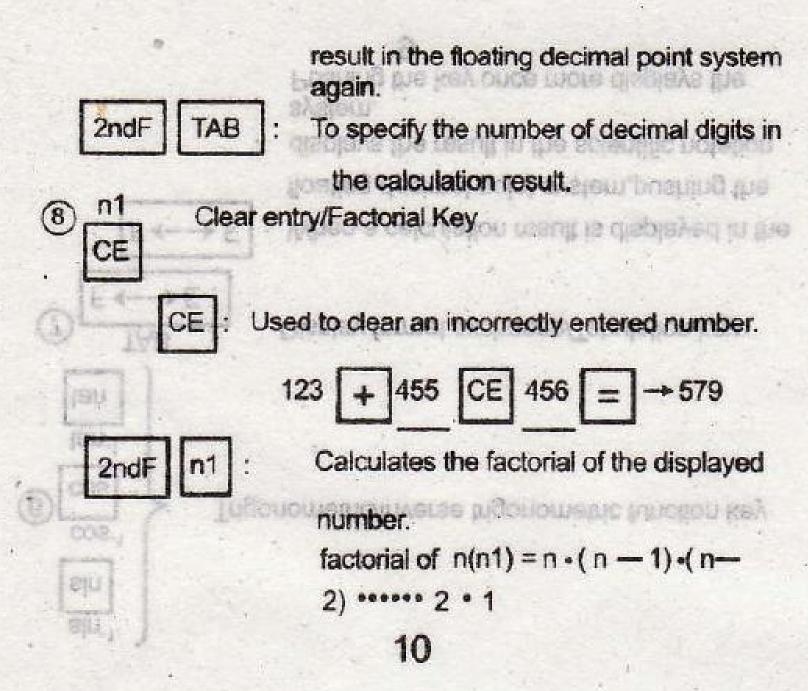


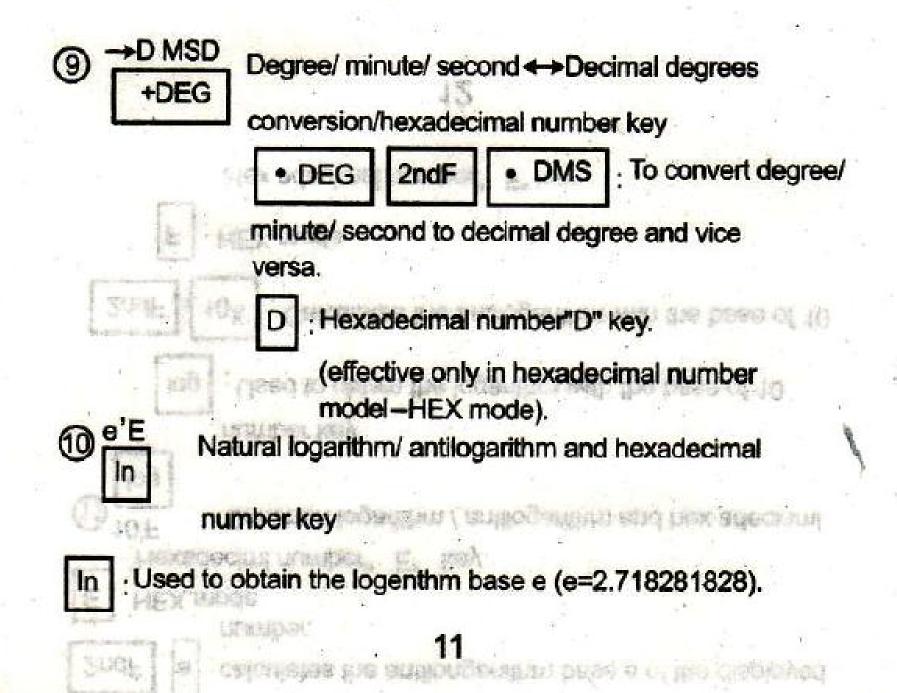


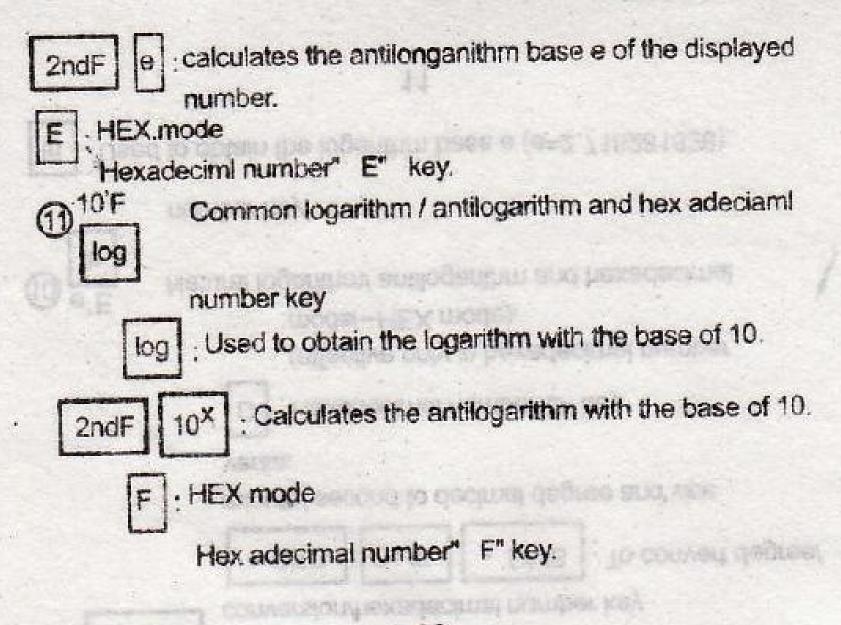


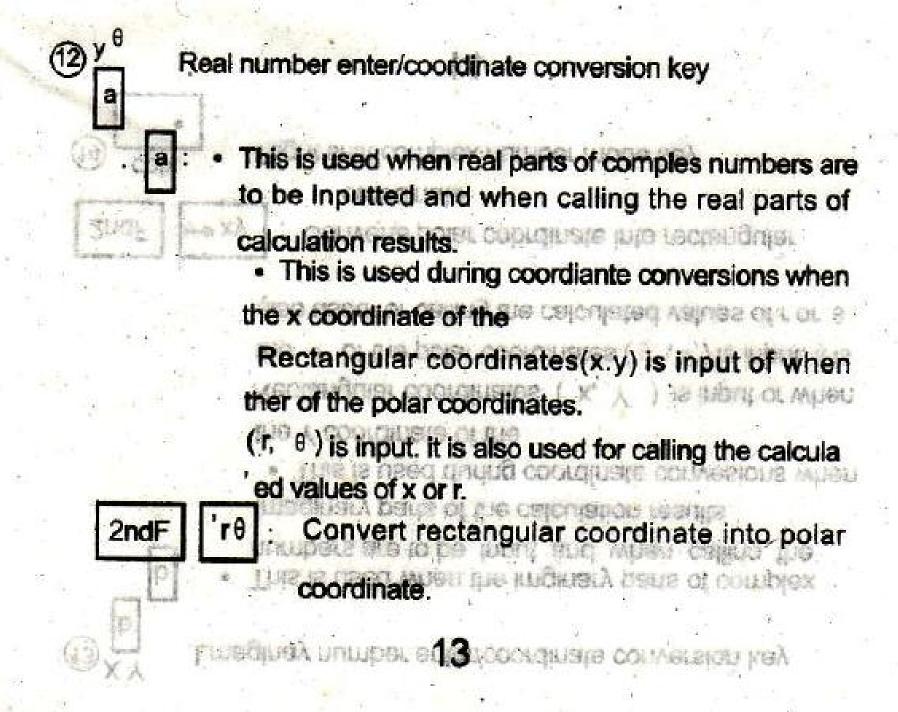


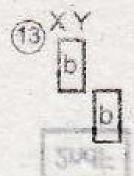








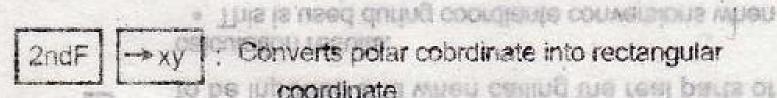




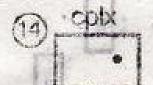
Lmaginay number enter/coordinate conversion key

- This is used when the imginary parts of complex numbers are to be input and when calling the imaginary parts of the calculation results.
  - This is used during coordinate convesions when the Y coordinate of the

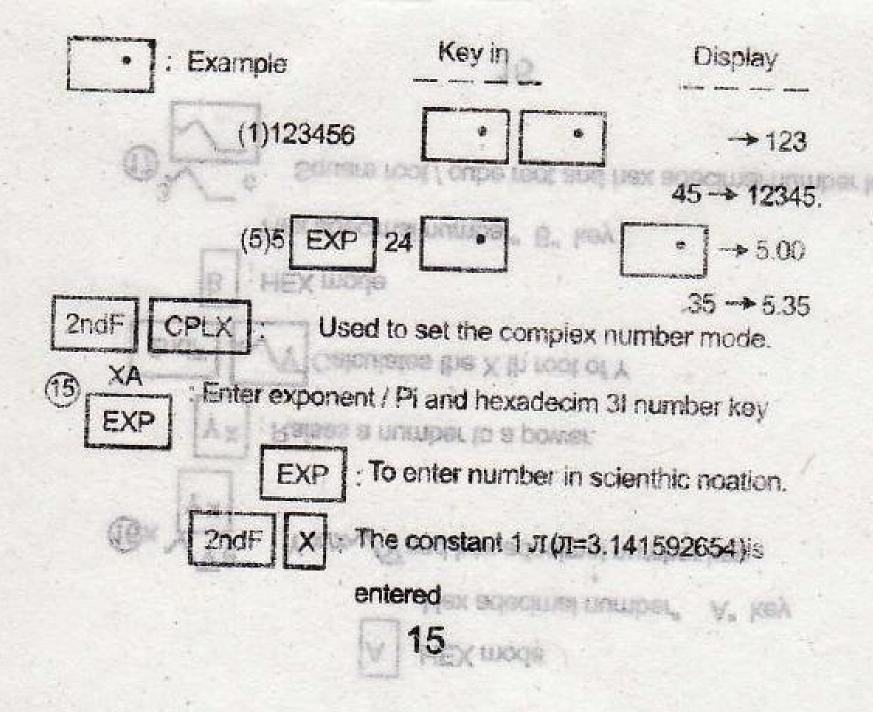
Rectangular coordinates (x, Y) is input or when the e of the polar coordinates (y, 3) is input. It is also used for calling the calculated values of r or 8

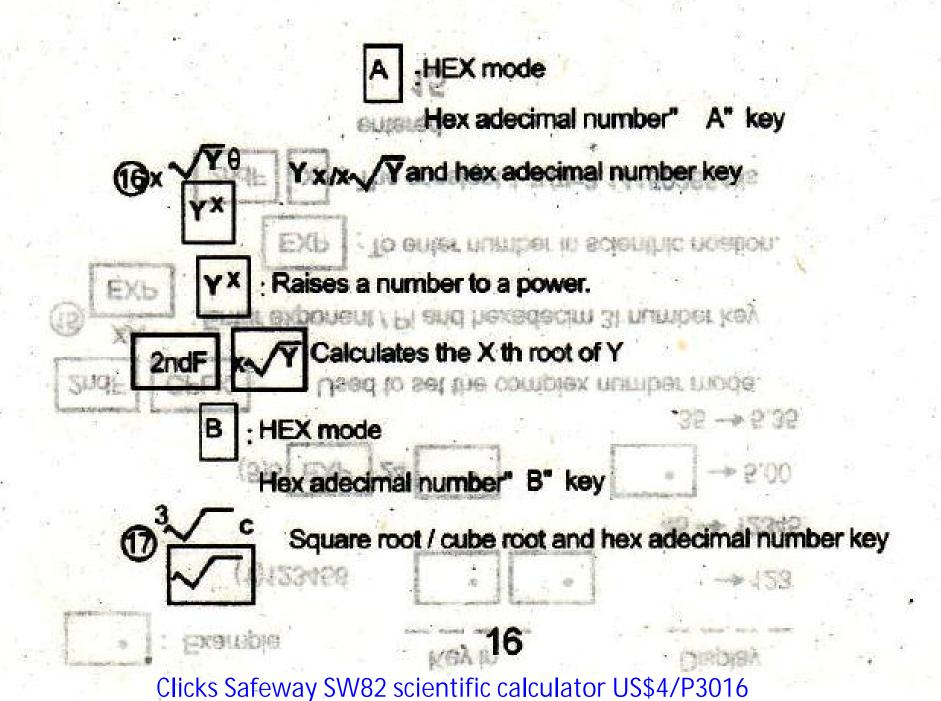


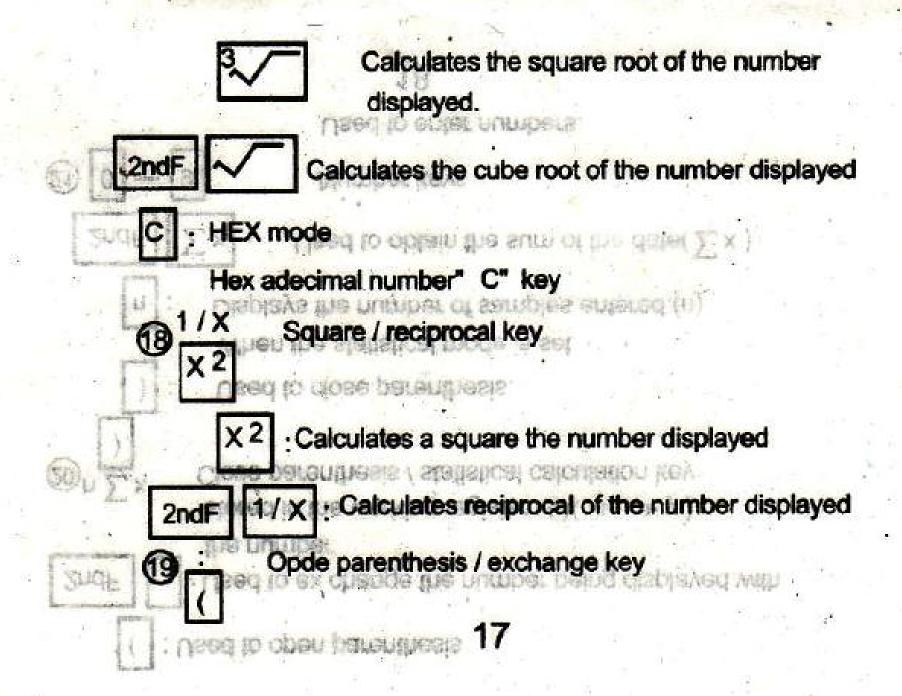
: Converts polar coordinate into rectangular Coordinate when calling the real parts of

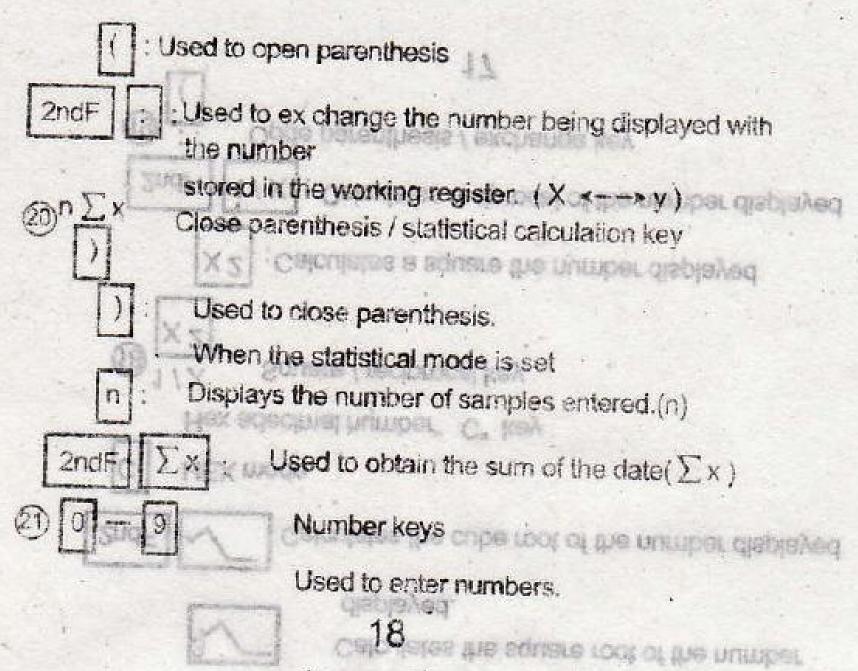


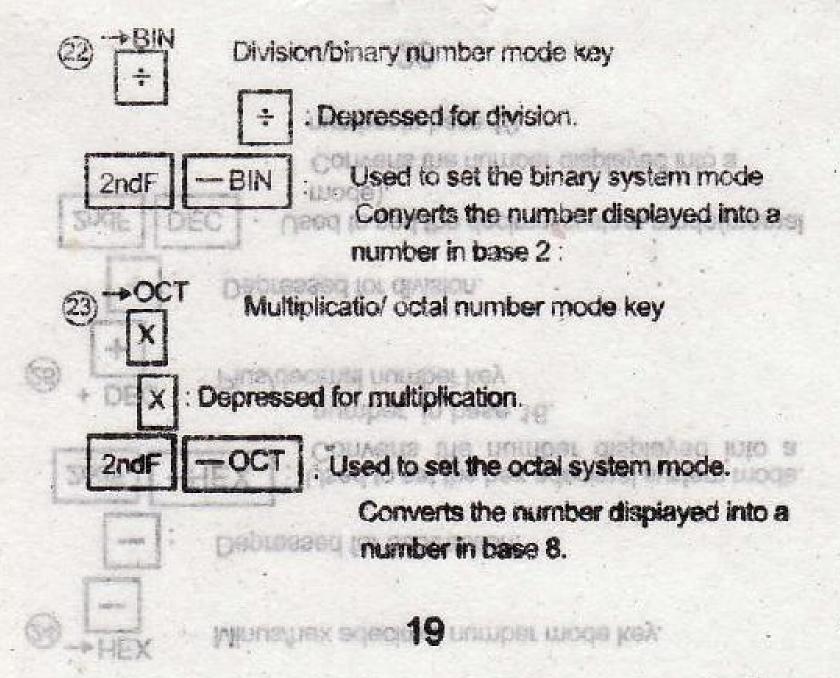
Right shift/complex number mode key

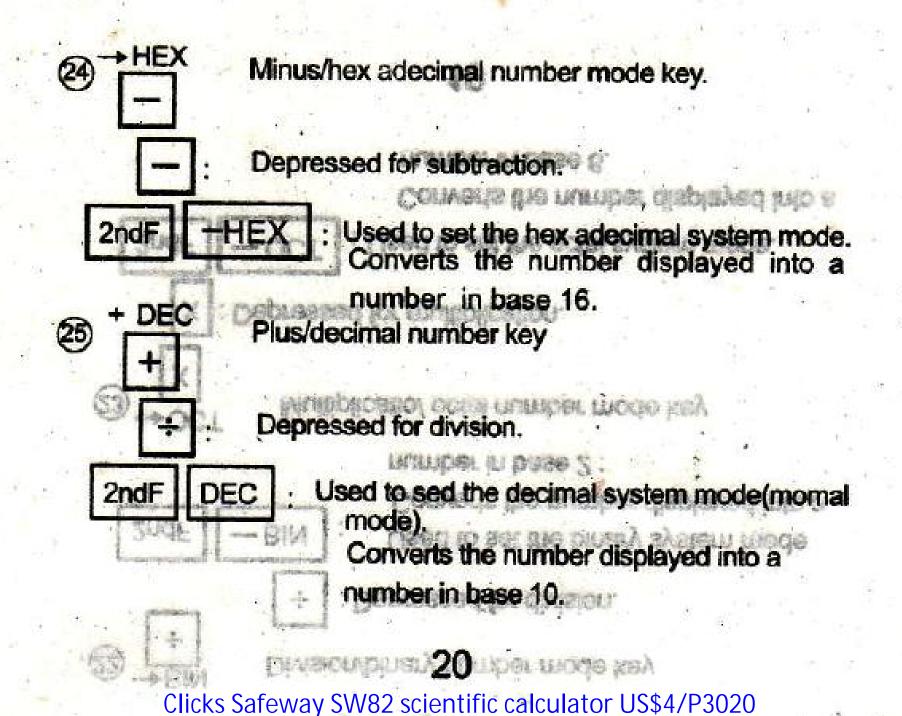


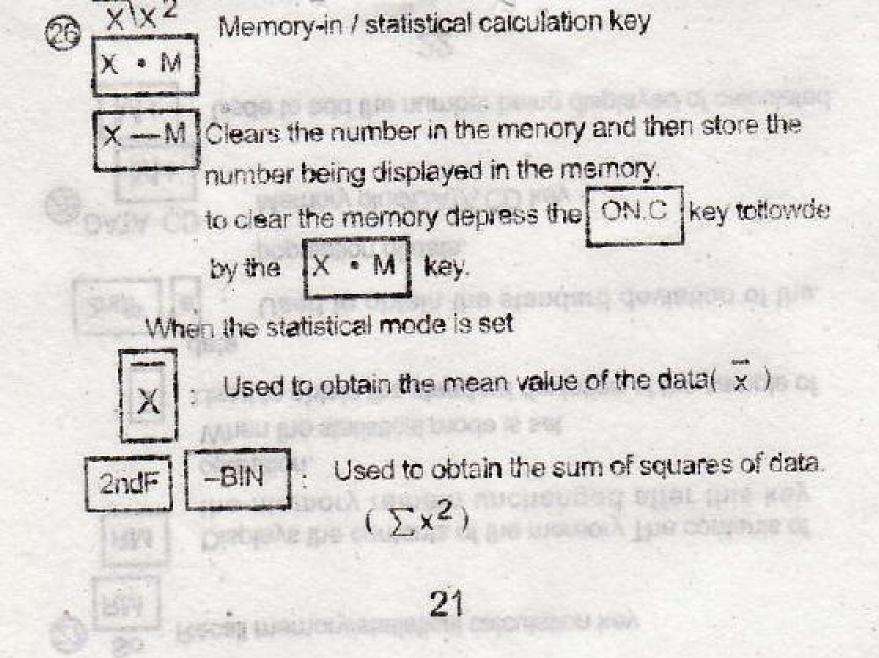


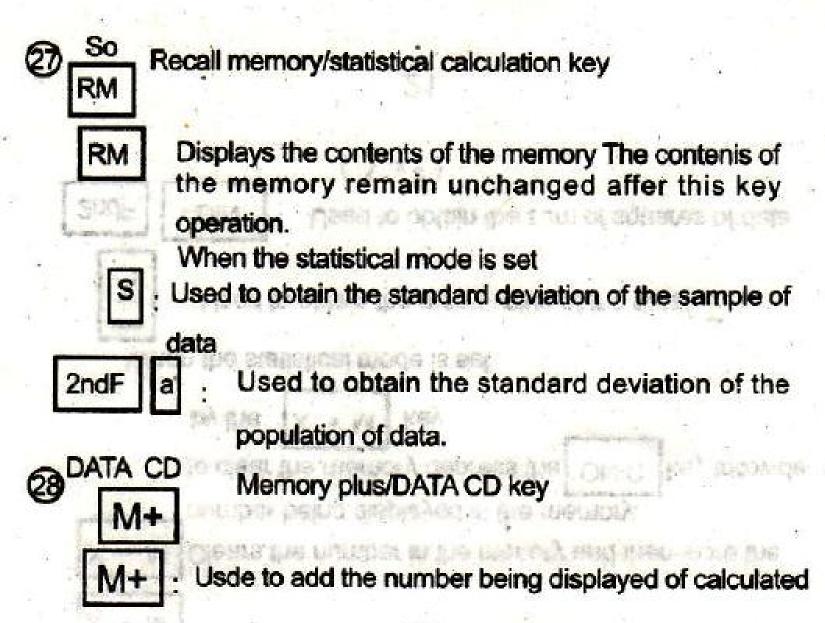


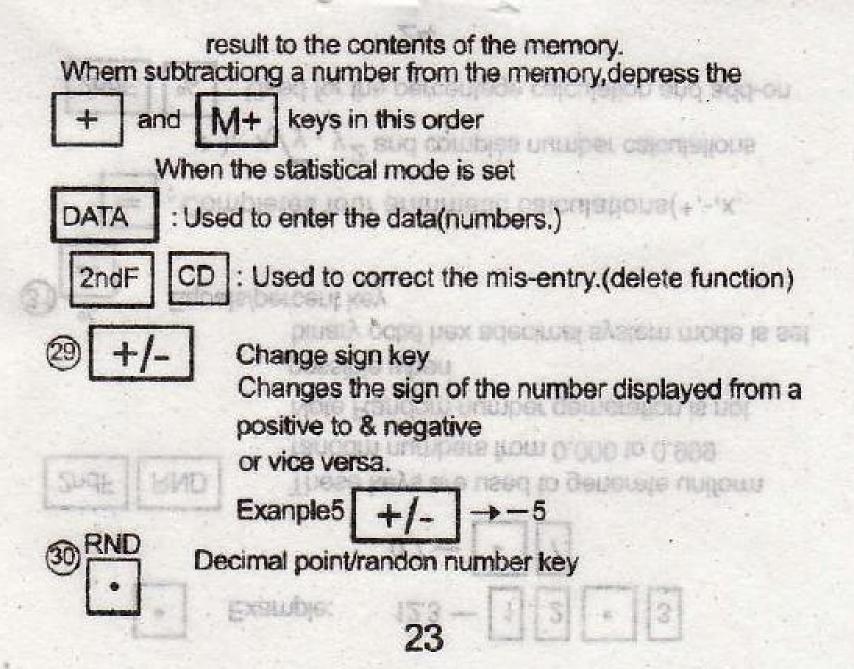


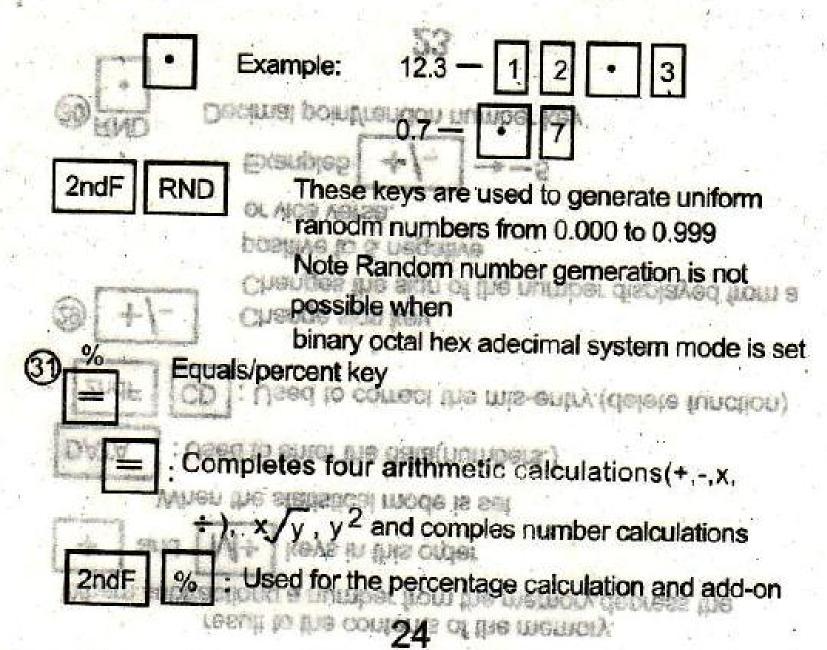


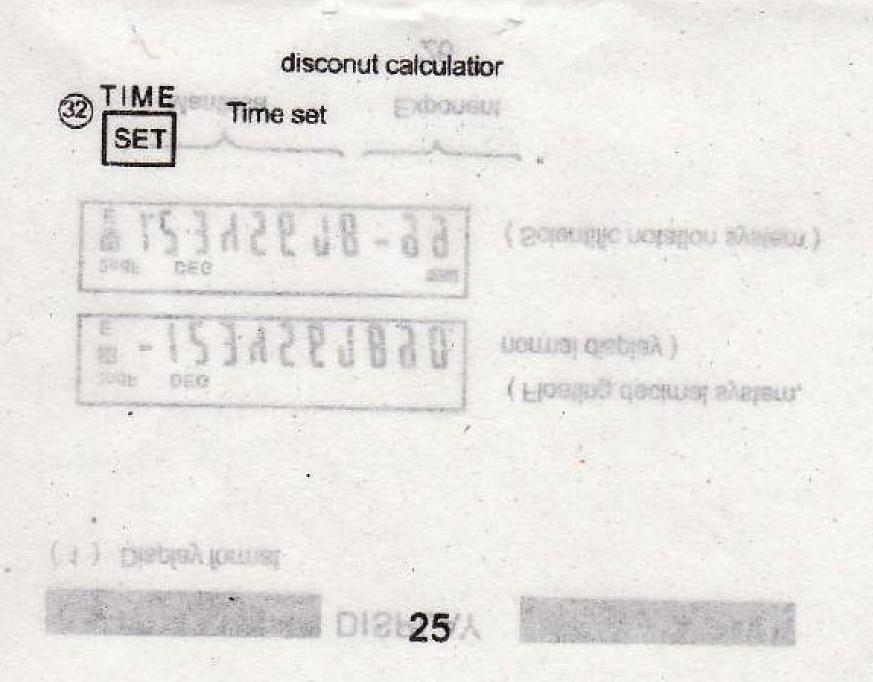






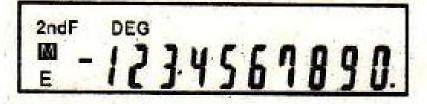




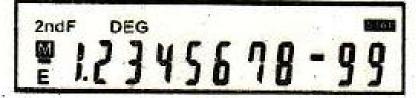


# DISPLAY

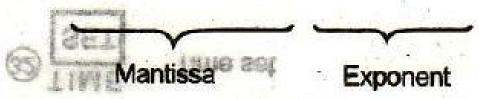
(1) Display format



( Floating decimal system, normal display )



(Scientific notation system)



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- (2)Symbols
  - Minus symbol
    - Indicates that the number in the display following the
    - " " is a negtive
- M : Memory symbol

Appears when a number is stored in the memory

E:Error symbol

Appears when an overflow or an error is detected 2ndF:2nd function designation symbol.

Appears when the 2nd function is designated.

- HYP.Hyperbolic function designation symbol appears when hyperbolic function is designated.
- DEG:Degree mode symbol

Appears when the degree mode is designated or shows that the angular mode of the convered result is in degree.

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RAD Radian mode symbol

Appears when the radian mode is designated or shows that

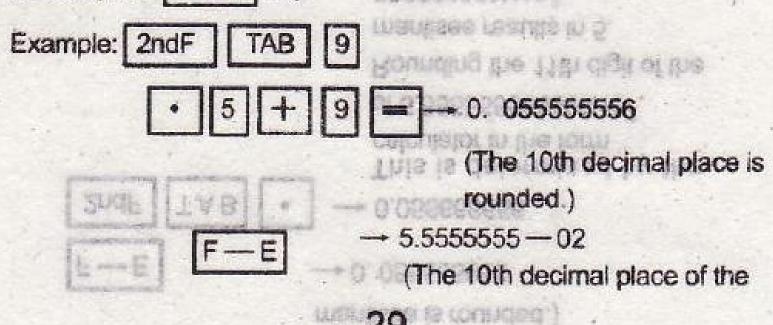
the angular mode of the converted result isin radian GRAD: Grad mode symbol agisu wage is geriduated or shows that Appears when the grad mode is designated or shows that the angular mode of the converted result is in grad. ): Parenthesis symbol edites mode iz dissiduared or spoke that Appears when a calcuation with parenthesis is pertomed. by depressing the ( key. key. : Appears when the binay system mode is set of shows the displayed number is a binay number OCT : Appears when the octal system mode is set or shows the displayed number is an octal number HEX: Appears when the hex adecimal system mode is set of shows the displayed number is a hex adecimal number. CPLX : Appears when the complex number mode is set. SIAI : Appears when the statistical calculation mode is set. (3) Display system

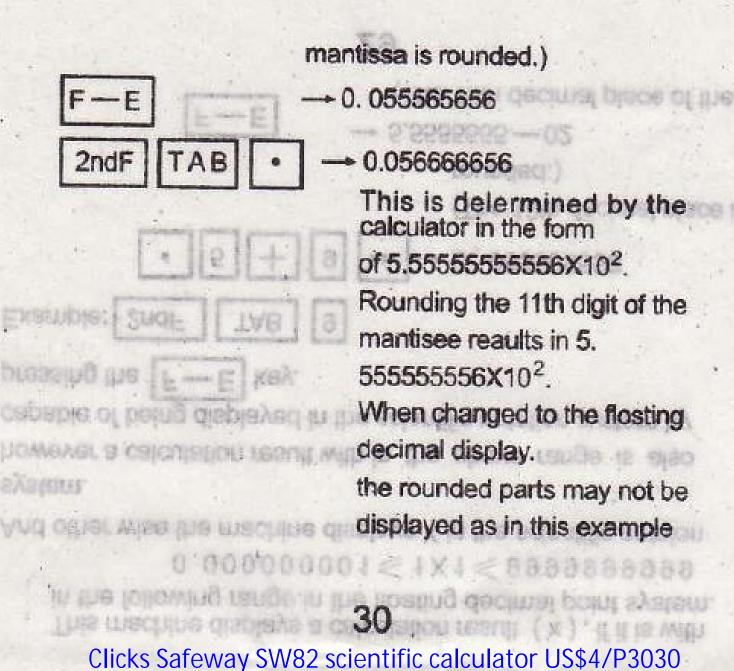
28

This machine displays a calculation result (x), if it is with in the following range in the floating decimal point system.

And other wise the machine displays X in the scientific notaion system.

however a calculation result with in the above range is also capable of being displayed in the scientific notation system by pressing the F-E key.





# BATTERY REPLACEMENT

If the display becomes dark or dim. replace the batteries with new ones according to the following procedure.

Battery: LR1130 X2or G10 X2

- 1. Turn off the calculator.
- 2.remove the battery cover.
- 3. Replaces the batteries. (+ side must be up)
- 4. Push is the battery cover.
- 5.Affer the replacement, press the OFF and ON/C keys in this order to clear the calculator.

When the batteries are correctly installed " DEG o." Will be displayed. (if the display shows nothing or a meaning less aymbol, or the keys become in operative, remove the batteries and

Install them again, Pres OFF 34

## Clicks Safeway SW82 scientific calculator US\$4/P3032

# BATTERY 135PLACEMENT

Battery: LR1130 X20f new ones according to the following procedure. If the display becomes dark or dim, replace the batteries with

1, Turn off the calculator

2, remove the battery cover.

3.Replaces the batteries. (+ side must be up.)

4.Push is the battery cover.

5. Alter the replacement, press the JOFF Jand JONIC | keys in ...

install them again. Prss OFF ON/C keys in this order and check the display again has in operative, remove the batteries and Note: - wipe off the surface of the new batteries with dry cloth When and then install the batteries railed." DEG o." Will be Always replace both of the batienes at the same time.

### Scientific Calculator

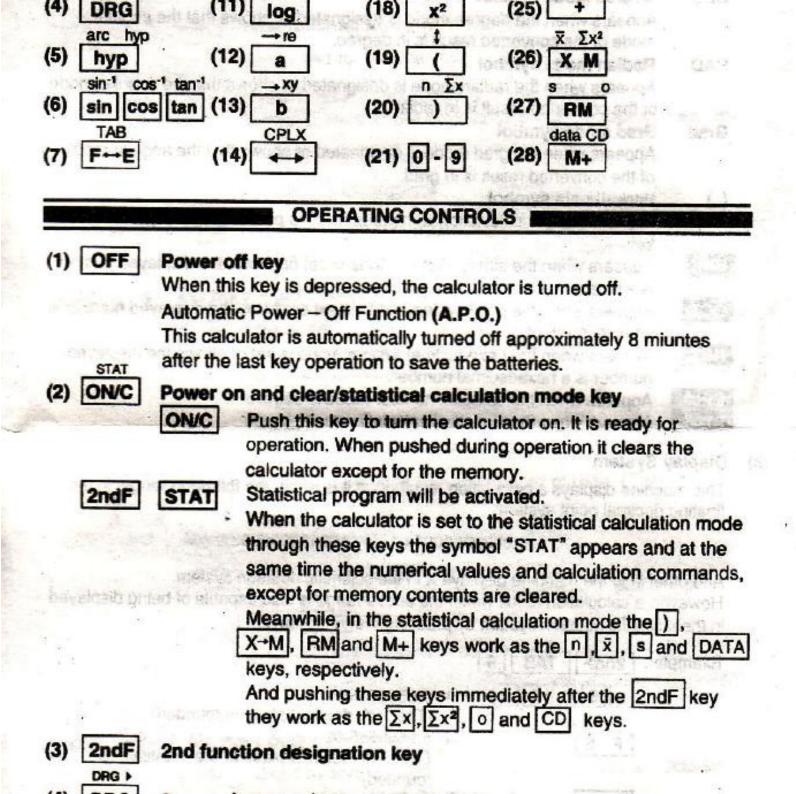
### Dear Customer,

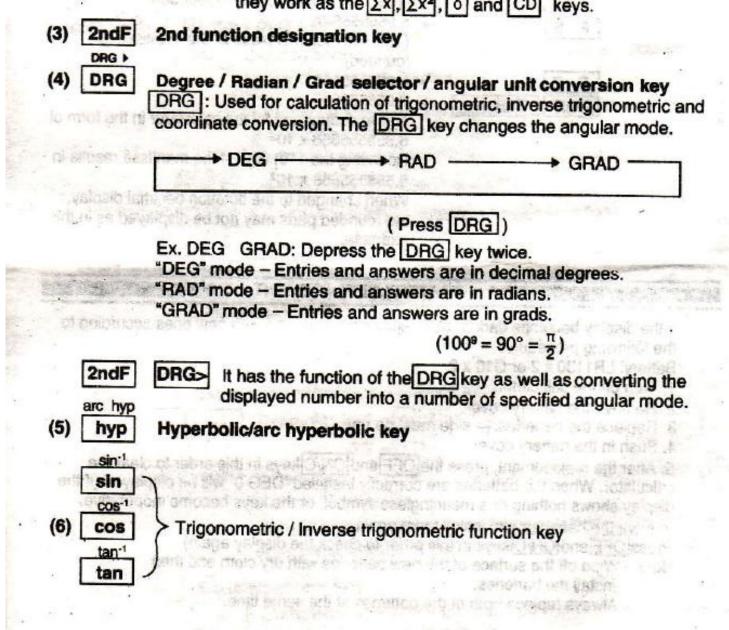
- Thank you very much for purchasing our electronic calculator.
- To fully utilize its features no special training is required, but we suggest you study this operation manual to become familiar with its many abilities.
- To help ensure its longevity do not touch the inside of the calculator, and avoid hard knocks and unduly strong key pressing. Extreme cold (BELOW 32° F or 0°C), heat (above 104° F or 40° C) and humidity may also affect the functions of the calculator. Never use volatile fluid such as lacquer thinner, benzene, etc., when cleaning the unit. FOR servicing, contact your retailer or nearby dealer.

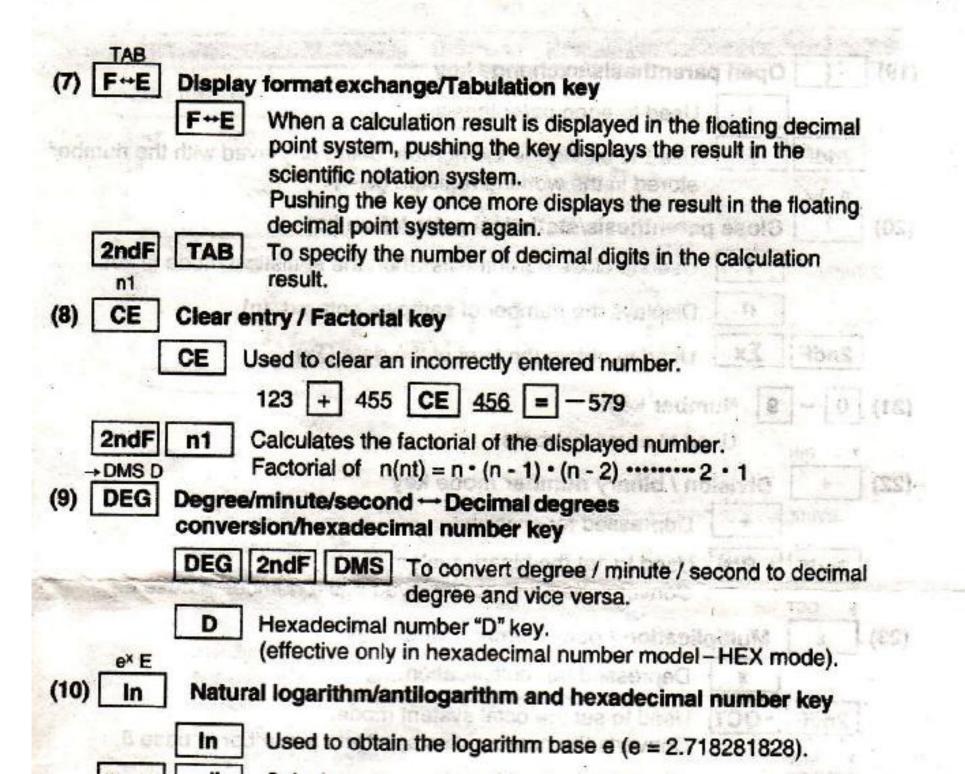
Before starting calculation, be sure to press the ON/C key and to confirm that "0" is shown in the display.

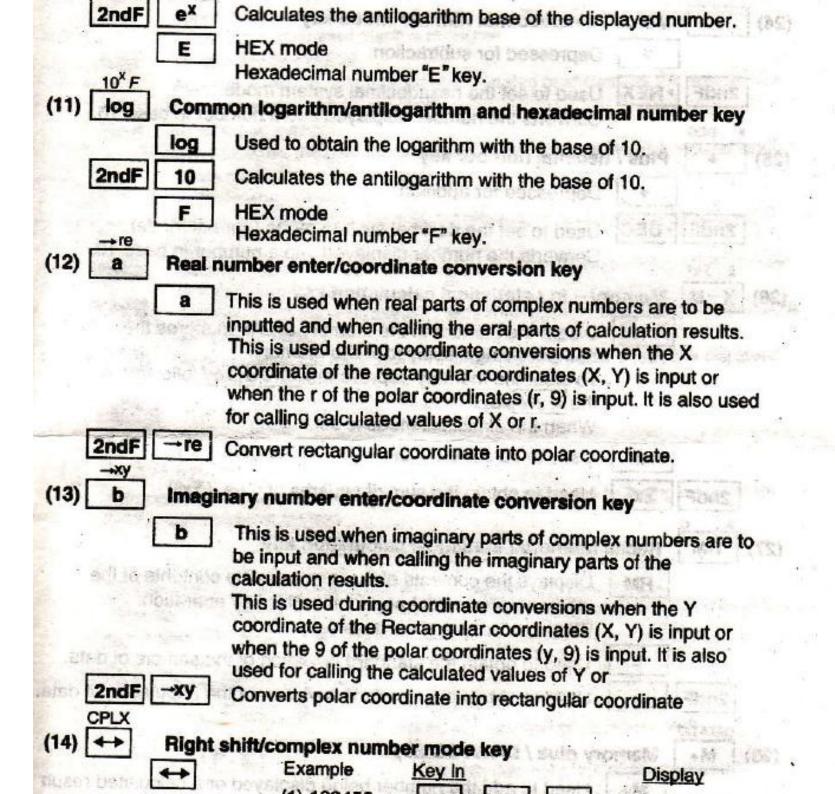
Special care should be taken not to damage the unit by bending or dropping. For example, do not carry it in your hip pocket.

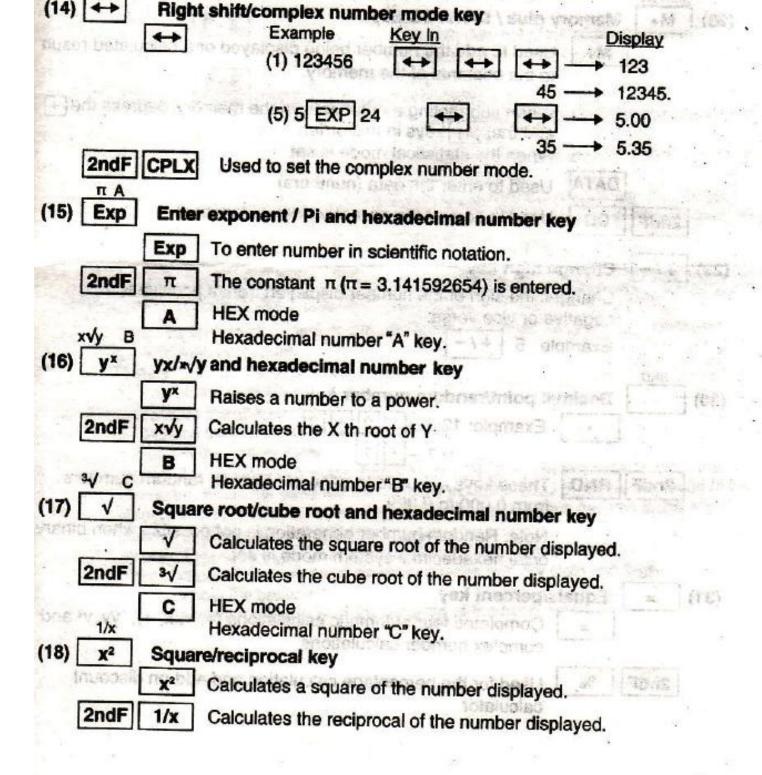
THE KEYBOARD				
	nl	πΑ	▶ BIN	2000
(1) OFF	(8) CE	(15) Exp	(22) +	(29) +/-
STAT	→ DMS D	xvy B	▶ OCT	RND
(2) ON/C	(9) DEG	(16) y <sup>x</sup>	(23) x	(30)
	ex E	-v C	. HEX	%
(3) 2ndF	(10) In	(17) √	(24)	(31) =
DRG.	10° F	1/x	▶ DEC	THE REAL PROPERTY.
(4) DRG	(11) log	(18) x <sup>2</sup>	(25) +	

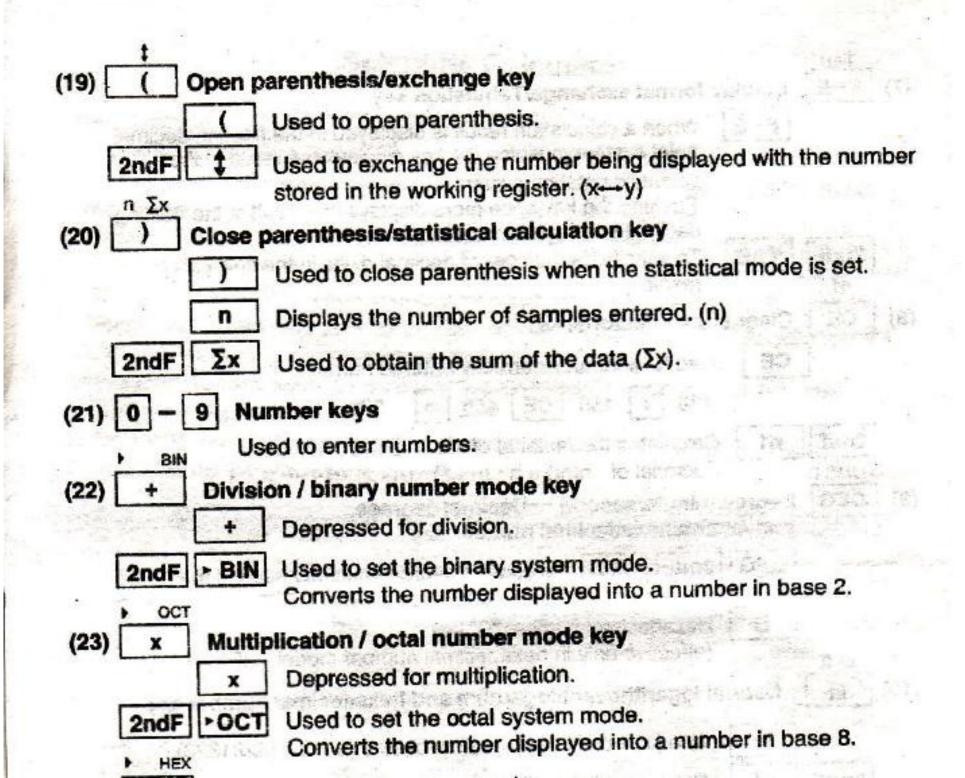


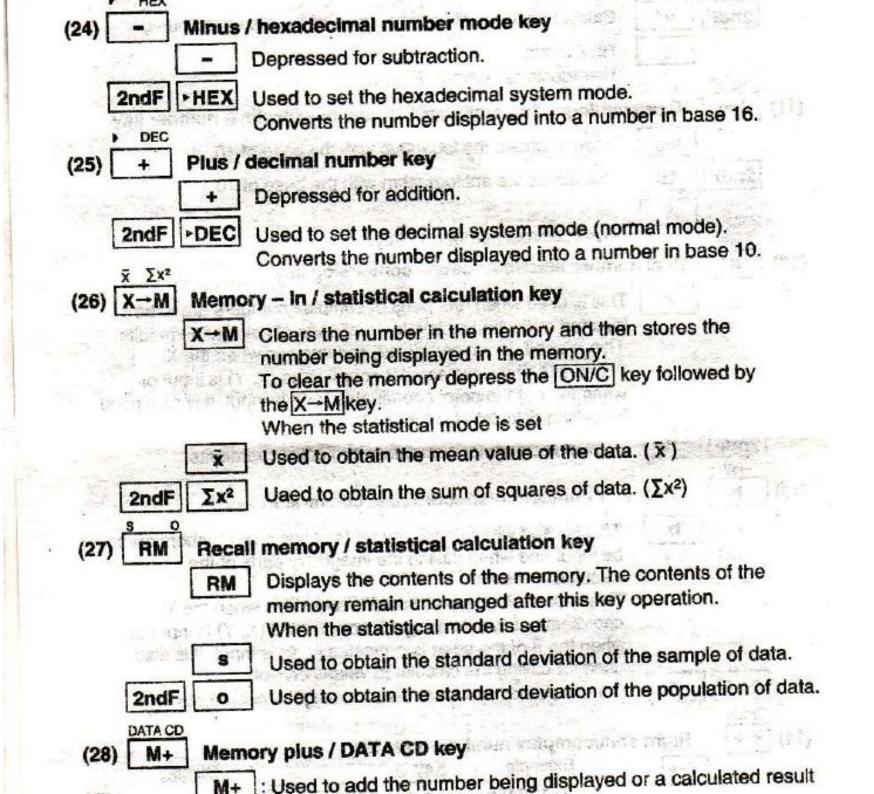


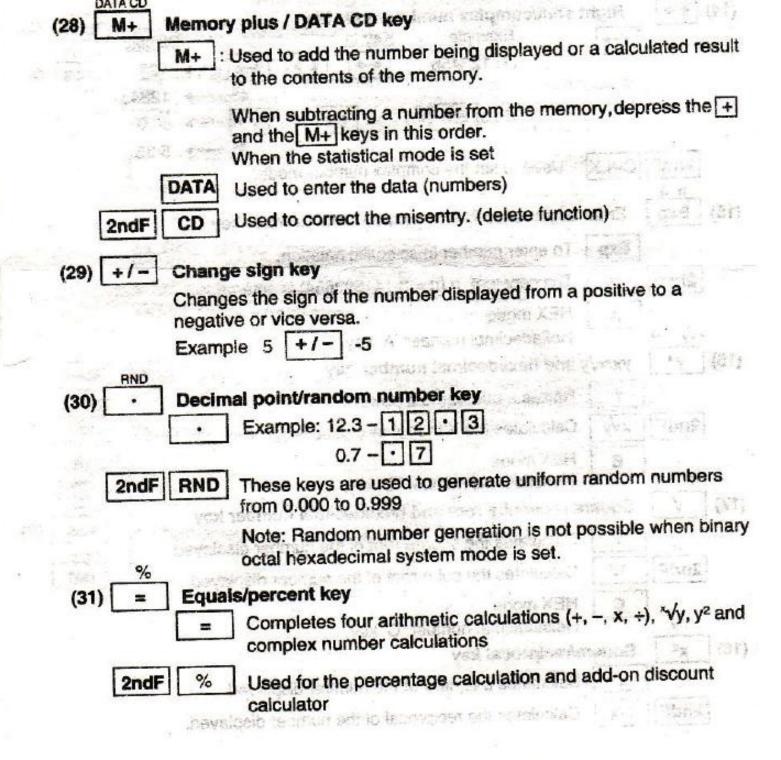




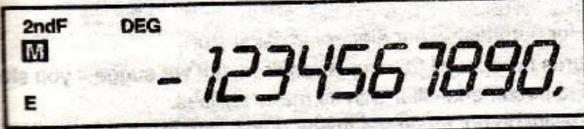








## Display format



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STAT DEG 2ndF M

(Floating decimal system, normal display)

(Scientific notation system)

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Mantissa

Exponent

### Symbols

Minus symbol

Indicates that the number in the display following the " - " is a negative.

Memory symbol

Appears when a number is stored in the memory.

Error symbol F

Appears when an overflow or an error is detected.

2nd function designation symbol 2ndF

Appears when the 2nd function is designated.

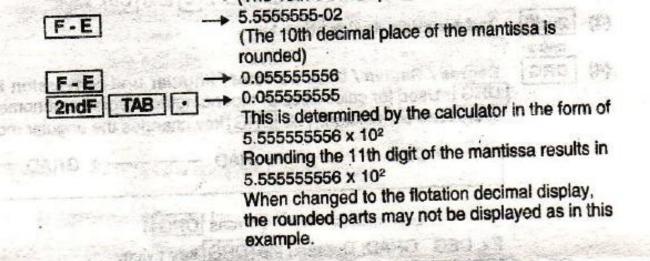
Hyperbolic function designation symbol HYP

Appears when hyperbolic function is designated.

Degree mode symbol DEG

Appears when the degree mode is designated or shows that the angular mode of the converted result is in degree. Radian mode symbol RAD Appears when the radian mode is designated or shows that the angular mode of the converted result is in radian. Grad mode symbol Grad Appears when the grad mode is designated or shows that the angular mode of the converted result is in grad. Parenthesis symbol () Appears when a calculation with parenthesis is performed by depressing the ( key. Appears when the binary system mode is set or shows the displayed number BIN is a binary number. Appears when the octal system mode is set or shows the displayed number is OCT an octal number. Appears when the hexadecimal system mode is set or shows the displayed HEX number is a hexadecimal number. Appears when the complex number mode is set. CPLX Appears when the statistical calculation mode is set. STAT Display System This machine displays a calculation result (x). If it is within the following range, in the floating decimal point system: 0.000000001< 1 x 1<9999999999 And otherwise the machine displays X in the scientific notation system. However, a calculation result within the above range is also capable of being displayed in the scientific notation system by pressing the F-E key. 2ndF TAB 9 Example: → 0.05555556 5 + 9 = (The 10th decimal place is rounded) 5.5555555-02 F-E (The 10th decimal place of the mantissa is

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### BATTERY REPLACEMENT

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If the display becomes dark or dim, replace the batteries with new ones according to the following procedure. to netternated seat a lateral

Battery: LR1130 x 2 or G10 x 2

- 1. Turn off the calculator.
- 2. Remove the battery cover.
- 3. Replace the batteries. (+ side must be up)
- 4. Push in the battery cover.
- 5. After the replacement, press the OFF and ON/C keys in this order to clear the calculator. When the batteries are correctly installed "DEG 0" will be displayed (if the display shows nothing or a meaningless symbol, or the keys become inoperative, remove the batteries and install them again.
- Press OFF and ON/C keys in this order to check the display again)
- Note: Wipe off the surface of the new batteries with dry cloth and then install the batteries.
  - Always replace both of the batteries at the same time.