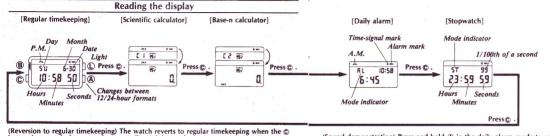
Dear Customer, Congratulations on your purchase of this Casio Digital Quartz Watch. Although highly sophisticated, this watch is delightfully simple to use, and by referring to this guide you will enjoy all the features of this reliable ultra-precise timepiece.

Notice: As this watch contains precise electronic components, the back cover should only be removed by authorized personnel.



(Reversion to regular timekeeping) The watch reverts to regular timekeeping when the © button is pressed after operation, regardless of the mode.

(Auto-retrieve function) The calculator display, if left unused, will automatically return to the time display in 5 or 6 minutes. The alarm display will return to the time display in 2 or 3 minutes.

(Sound demonstration) Press and hold  $\ensuremath{\mathfrak{B}}$  in the daily alarm mode to sound the buzzer.

2



1) In the regular timekeeping mode, first press ® for a few seconds to set.

Press the Press to a time signal to correct second.

10:58 50

**©** 

2) Press the T. key on a time signal to correct seconds.
3) The flashing position can be shifted by pressing © or

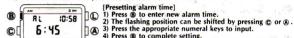
(a) in the following order.



- 4) Press the appropriate numeral keys to input.
  5) Press ® to revert to regular timekeeping mode.
  - Year digits can be set up to the 2079 by inputting the last two digits.

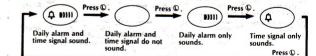
#### Setting daily alarm

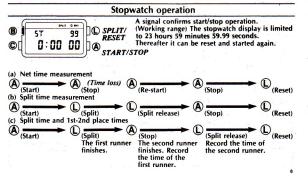
If the daily alarm is set, the buzzer sounds for 20 seconds at the preset time every day until cleared. To stop the buzzer while sounding, press any button. If the time signal is set, the watch sounds every hour on the hour.



<sup>\*</sup>When the watch is in the 24-hour system, the alarm time is displayed in that system,

[ON or OFF setting of daily alarm and time signal]





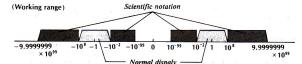
#### Scientific calculator operation Angular unit indicator Memory sign Key function indicator Constant sign-Exponent Clears entry for Moves to "FI" mode. correction Releases overflow or error Clears all except memory. A Moves to "F2" mode. check. Moves to other mode, when the display Mantissa is cleared. (Moving the key function indicator) ["F1" mode] ["F2" model Press D. Press A. Press (L) Press A. [Home position]

-

The keyboard function matches the position of the key function indicator. The indicator's home position is lower left. Pressing  $\mathbb D$  moves the indicator to the upper left ("F1" mode),  $\mathbb A$  moves it to upper right ("F2" mode), etc. Each shift of the indicator corresponds to a change in the key functions: i.e. indicator on the upper left equals the functions marked upper left on the key-in the case of the  $\boxed{4}$  key, for example, the log function would be activated.

(Relationship between the key function indicator position and the keyboard functions)

(Kelationship betw	cen the key function	indicator position and	the Reyboard Tunetions,			
Position of key function indicator	Home position	"F1" mode	"F2" mode			
Functions on keyboard	7 8 9 ÷	+/- 1/x √ MR	+/- x1 x1 DEG			
	4 5 6 ×	log in x Min	10x ex x1/y RAD			
	1 2 3 -	sin cos tan M-	sin <sup>-1</sup> cos <sup>-1</sup> tan <sup>-1</sup> GRA  ← π ) %			



When the answer exceeds the normal display capacity, it is automatically shown by scientific notation, 8-digit mantissa and exponents up to  $10^{\pm 99}$ .

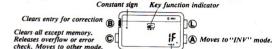
(Calculating examples)ExampleOperationEntry clear
$$2 \times 2.5 = 5$$
 $2 \times 2.7 \circledast 2.5 =$ Basics $10 - 7 \times (3+6) = -53$  $10 - 7 \times (0+6) = 10 - 7 \times$ 

You can input the formula as written. True Algebraic Logic automatically determines priorities in formula computation. Calculations up to 12 pairs of parentheses nestable in 4 levels can be performed.

	Example	Operation
Constants	2.3 × 12 = 27.6 (-9) × 12 = -108	12 × × 2.3=9 © 7/oc = (+/-)
Memory calculation	53+6=59 +)23-8=15 74	53+6© (works as (Mt) (MR) as (Mt) (MR)
The Min Key clear		stores a displayed number in the memory.
Trigonometrics	$\sin^{-1}0.8 - \cos^{-1}0.9 = 27^{\circ}17'17$	" .8 @ 19 @ 2 = @ 0 (cos <sup>-1</sup> ) (cos <sup>-1</sup> )
Before decimal/se	exagesimal conversion, please che	eck if DEG is shown.
Logarithms	log456 ÷ ln456 = 0.4342944	456 (Min) (log) (MR) (In)
Roots	$\sqrt{2} + \sqrt{3} + \sqrt{5} = 5.2871969$	2 ( ) ( ) ( ) ( ) ( )
Percentages	15% add-on of 2500	2500 × 15 (8) (9%) +
	25% discount of 3500	3500 × 25 (%) — (%)

## Base-n calculator operation

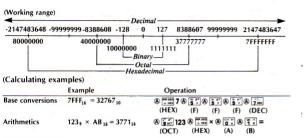
Basic arithmetic and scientific calculations should be performed in the scientific mode. Base-n and logical calculations should be performed in the Base-n mode.



when the display is cleared.

Base indication
(Relationship between the key function indicator position and the keyboard functions)

Position of key function indicator	Ho	me 	posi	tion	Press A.	"I <del>-</del>	Ž L	m	ode
Functions on keyboard	7	8	9	÷		DEC	BIN	ост	HEX
	4	5	6	×		E	F	XOR	AND
	1	2	3	-		В	С	D	NEG
	0		=	+		A	EXP	=	OR



Logical operations
The following logical operations can be executed on the operand(s) for binary, octal and hexadecimals.

AND .....Logical product of two operands
OR ....Logical sum of two operands

and

XOR ..... Exclusive logical sum of two operands NEG .....Negation (NOT is obtained by subtracting "1" from the negative number.) NEG..... Two's compliment NOT..... One's compliment 19,4 AND 1A,6 = 18,6 A 19 A 10 10 = A WY ORD 50 & W. X/ A W. 44 1101 = A WA ORD  $50_{16}$  OR 1101, =  $5d_{16}$ (OR) (HEX) 516 XOR 316 = 616 Negation of 1C16 is FFFFFFE416 @ TOTAL TANK

### Care of your watch

- Battery life is calculated from when the battery is loaded at the factory. At first sign
  of power fade (no light or dim display), have battery replaced at dealer or Casio
  distributor.
- The watch will withstand the ingress of water at a static pressure as indicated, i.e. 50
  meters, 100 meters or 200 meters, or equivalent to immersion in sea water at the

stated depths. However, when performing any underwater activity, the dynamic pressure generated through movement is greater than the static pressure. For full details on the limitations of use, please refer to the water resistance chart below:

Rank	Case Designation	Splashes, rain, etc.	Swimming, car- washing, etc.	Snorkeling, diving, etc.	Scuba diving	
A*	_	No	No	No	No	
В	WATER RESISTANT	Yes	No	No	No	
C**	50M WATER RESISTANT	Yes	Yes	No	No	

<sup>\*</sup>Sweat-resistant but not water-resistant, so water should be avoided.
\*\*Caution—50 metres water resistant models—do not operate push buttons below the surface of the water.

- Your water resistant watch has been tested in accordance with the International Organization for Standardization regulations ISO2281 and FTC (USA) "GUIDE FOR THE WATCH INDUSTRY". Guide 5.
- This watch contains precision electronic components. Never attempt to open the case or remove the back cover.
- A waterproof rubber seal is used to guard against water and dust. As rubber deteriorates with time, the seal should be replaced periodically (every 2—3 years).

 Should water or condensation appear in the watch, immediately have the watch checked. Water can corrode electronic parts inside the case. Avoid exposing the watch to temperature extremes.

damp cloth. Discoloration can be removed with detergent.

 Although the watch is designed to withstand impact under normal use, it is inadvisable to subject it to severe impact, rough usage or drops onto hard surfaces.

 Avoid fastening the band too tightly. You should be able to insert your finger inside the band.

Clean the watch and bracelet with a soft cloth, dry or moistened with mild soap.
 Never use volatile chemicals (such as benzine, thinners, spray cleaners, etc.).
 Gold plated surfaces can be kept in good condition by regular wiping with a soft

Always store your watch in a dry place.

Avoid exposing the watch to strong chemicals such as gasoline, cleaning solvent, aerosol spray, adhesive agent, paints, etc. The chemical action caused by such liquids will destroy the seals. case and finish.

# Specifications

Accuracy at normal temperature: ±15 seconds a month

Display capacity:

• Regular timekeeping mode

Hours, minutes, seconds, am/pm, month, date and day

Time system: Changeover between 12/24-hour formats
Calendar system: Auto-calendar pre-programmed until the year 2079

<ul> <li>Daily alarm mode Hourly time signal</li> </ul>				$x^y$		x > 0: $y$ : real number	±1 in the 8th digi	
• Stopwatch mode						x = 0: y > 0	±1 in the 8th digi	it
Measuring capacity: 23 hours 59 minutes 59.99 seconds						$x < 0$ : y: integer or $\pm 1/2n+1$ (n	a: integer) ±1 in the 8th digi	it
Measuring Capacity: 23 nours 39 minutes 39,99 seconds  Measuring unit: 1/100th of a second				$x^{1/y}$		x > 0: y: real number	±1 in the 8th digi	
	Normal time, net time, split time and 1st-2r	d place times				x = 0: y > 0	±1 in the 8th digi	rt
Scientific calculator	r mode	ia piace times				$x < 0$ : $y : odd number or \pm 1/n (number)$	(n: natural	
	basic calculations, constants for + / - / × / ÷	narenthesis				$0 \le x < 10^{100}$	+4 !- 4b- 04b -4!-!	
(	alculations (up to 12 pairs of parentheses ne	stable at 4 levels) and	4	٧			±1 in the 8th digi ±1 in the 8th digi	
	nemory calculations			1/x		$ x  < 10^{100}, x \approx 0$	±1 in the 8th digi	
Capacity:	Innut some	0.1		x!		$0 \le x \le 69 (x: integer)$	±1 in the 8th digi	
	Input range	Output accuracy	_	0111-		[°, 7, 77] < 10 <sup>100</sup>	±1 in the 8th digi	
Entry/basics	8-digit mantissa or 8-digit mantissa plus			0111 ←		$ x  < 10^{96}$	±1 in the 8th digi	
6.1 .10	2-digit exponent up to 10 <sup>±99</sup>			<ul> <li>Base-n calc</li> </ul>	culator mo	de		•
Scientifics	DEG		A	Base convei	ersions (BIN	NARY/OCTAL/DECIMAL/HEXADE	CIMAL),	
$\sin x / \cos x / \tan$							operations (AND/OR/XOR/N	IEG)
	RAD: $ x  \le 8\pi$ rad	±1 in the 8th digit		Battery:			•	
sin-1x/cos-1x	GRA: ⋈ < 1600 gra	±1 in the 8th digit				(type: CR-1616)		
tan-1x	$ x  \leq 1$ $ x  < 10^{100}$	±1 in the 8th digit	Approx. 2 years operation on type CR-1616 (under the following conditions: illumin					na-
$\log x / \ln x$	$10^{-99} \le x < 10^{100}$	±1 in the 8th digit		tion -1 sec/day, calculation -1 hr/day, alarm-20 secs/day)  NOTE: THERE IS NO WAY unit components can be damaged or malfunction, due to				
10° × 7111 ×	$-10^{100} < x < 100$	±1 in the 8th digit ±1 in the 8th digit						
ex	$-10^{100} < x \le 230.2585$	±1 in the 8th digit	misoperation of buttons. If confusing information appears on the display, it means en					ry
c	-10 < 1 \( \sigma	- i in the oth digit	10	sequence was	incorrect.	Please read the manual and try ag	gain.	
			10					17

## [How to replace the battery]

CAUTION: Battery replacement should not be attempted without use of the correct tools

1. Check the type of back cover

Removing the back cover Place the watch on soft material.

Opener, turn the back cover

counterclockwise.

With the Adjustable Case



Case Opener A

Snap-on type (B)

Screw-in type

Snap-on type (A)

Insert Opener A in the recess and move from side to side to make a gap between the cover and the case. Then use the opener to pry off the cover.



Fit Case Opener B into the notch and pry open the back cover.



CAUTION

metallic tweezers.

· Avoid touching the contact (-) of the battery. · Never hold the contacts with

3. Replacing the battery

Using a screwdriver, remove

Replace dead battery(s) and

screw(s) from the battery

attach the battery holder.

power fade (no light or dim display), have battery replaced at dealer or Casio distributor. 4. AC (ALL CLEAR)

seconds.

As shown below, touch the AC contact and the battery (+) side with metallic tweezers. Contact should be about 2

BATTERY LIFE: Battery life is calculated from when the battery is loaded at the factory. At first sign of



IMPORTANT

button will turn on the display

a) Contacting AC (ALL CLEAR) is necessary, when a new battery has been put in, because the memories/ counters may cause erratic displays. b) On some models, pushing the light

5. Fitting the back cover

Using the Adjustable Case Opener. tighten the back cover

Place the watch on a hand press and push the back cover

in gently. Hold the watch horizontally and snapfit the back

cover



