

**CASIO®**

UG0184B

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IN  
JAPAN

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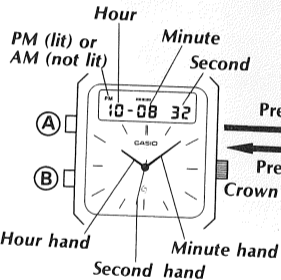
# CASIO

## Module No. 320

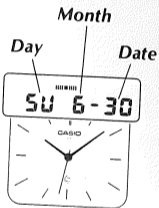
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## Reading the display

Regular timekeeping mode  
[Time]



[Calendar]



Press (A).

Press (A).

Crown

Press (B).

[Calculator mode]

Mode indicator



[Daily alarm mode]

Time signal-ON-mark

Alarm-ON-mark

Hour

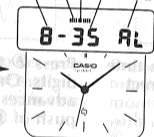
Minute

Mode indicator

Hour

Minute

Press (B).



Press (B).

[Stopwatch mode]

Minute

Second

Minute

Second

Mode indicator

1/10 second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

Minute

Second

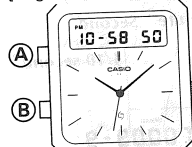
Press (B).

SU: Sunday MO: Monday TU: Tuesday WE: Wednesday TH: Thursday FR: Friday  
SA: Saturday

If the (B) button is pressed after a calculation or setting daily alarm, the display reverts to the time display.  
(Sound demonstration) Press and hold the (B) button to sound the buzzer.

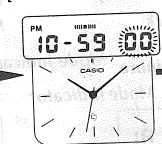
## Setting time and calendar

[Regular timekeeping]



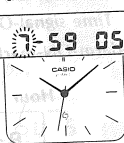
Press and hold **A** in time mode to set new digital time.

[Second adjusting]



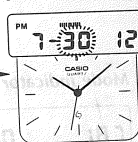
Press **B** on a time signal to correct seconds.\*

[Hour setting]



Press **A** to set hour digits. One hour advances with every push of **B**.

[Minute setting]

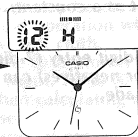


Press **A** to set minute digits. One minute advances with every push of **B**.

\*Precise time can be maintained by correcting the seconds once a month on a time signal from a radio, TV, telephone, etc.  
(Quick digit advance) When the **B** button is pressed for more than 2 seconds, the digit advances quickly. When released, the digit advance will stop.

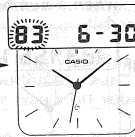
**IMPORTANT: Setting sequence MUST BE FOLLOWED** when making any new setting.

[12/24-hour format setting]



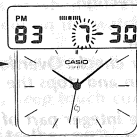
Press **A** to set 12/24-hour format. With every push of **B**, the display is switched between the 12 and 24 formats.

[Year setting]



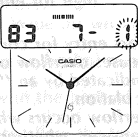
Press **A** to set year digits. One year advances with every push of **B**.

[Month setting]



Press **A** to set month digits. One month advances with every push of **B**.

[Date setting]



Press **A** to set date digit. One date advances with every push of **B**. Press **A** to complete.

(Auto-retrieve function) When setting the watch, if you leave it alone for 2 to 4 minutes, the display will automatically return to the regular timekeeping mode.

## Calculator operation

Deletes the displayed number by one digit for entry correction.

A function command sign (flashes when a number is set as a constant).

Clears entry for correction.

Releases overflow or error check. Overflow is indicated by an "E" sign and stops the calculation.

Overflow occurs when the integer part of an answer, whether intermediate or final, exceeds 8 digits (7 digits for negatives).

### [Before starting calculations]

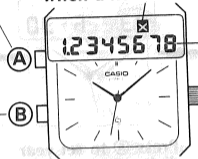
Make sure the display shows 0 before starting calculations.

To input figures, write them directly on the glass with your finger-tip. (No input is possible with a fingernail or pen.)

Write figures slowly and carefully using the whole space of the glass, checking your entries on the display.

Be sure to stop your finger whenever it comes to an inflection point of a figure, and then move the finger again.

When writing a figure or symbol with multiple strokes, move your fingertip off the glass at the end of each stroke, and start the following stroke before the input recognition indicator (◀◀◀) disappears.



8-digit entry (7-digit for negatives) can be made.

Making strokes not in the specified order or directions may input a wrong figure or symbol.

*\*Please carefully read the "Notes on how to input".*

Input may become difficult in low temperatures or when the air is too dry.

Avoid operation when moisture or dirt are present on the watch face. Wipe off with a dry, soft cloth.

If the ⓑ button is pressed with your finger touching the glass, a figure or symbol may be input. Press ⓐ or ⓑ button to clear.

When calculating with the watch off your wrist, keep touch contact with the back of the case.

A special process has been used in manufacturing the crystal surface to allow the touch sensor function.

This is protected with a special coating to resist dirt and scratches.

Special care should be given to the crystal. This care should include avoiding scratches if at all possible as this can cause touch key sensor input problems.



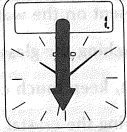





This watch incorporates a unique new mechanism which permits you to carry out calculations by writing figures directly on the glass with your fingertip.

What is this new mechanism?


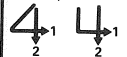

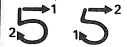



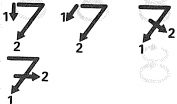
*Finger-Trace (handwritten figures or symbols) recognition system. The mechanism reads the order in which strokes are made and their directions.*

## Notes on how to input

The following points should be observed when you write figures:

<p><b>0</b></p>  <p>Align each end of the stroke. (Other writing forms)</p> 	<p><b>1</b></p>  <p>Draw a straight, vertical line. (Other writing forms)</p> 	<p><b>2</b></p>  <p>Clearly show the inflection point. (Other writing form)</p> 	<p><b>3</b></p>  <ul style="list-style-type: none"> <li>• Both upper and lower curves should be of the same size.</li> <li>• The starting, inflection, and ending points should all line up.</li> <li>• The figure should not lean over to the right.</li> </ul> <p>(Other writing form)</p> 
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7

<p><b>4</b></p>  <ul style="list-style-type: none"> <li>• Clearly show the inflection point of the first stroke.</li> <li>• Draw the second stroke parallel to the line drawn down to the inflection point of the first stroke.</li> </ul> <p>(Other writing forms)</p> 	<p><b>5</b></p>  <ul style="list-style-type: none"> <li>• Clearly draw the line <b>a</b>.</li> <li>• Clearly show the inflection point.</li> </ul> <p>(Other writing forms)</p> 	<p><b>6</b></p>  <p>Intersect the downward stroke near the center line, dividing the figure into upper and lower halves. (Other writing form)</p> 	<p><b>7</b></p>  <ul style="list-style-type: none"> <li>• Draw the line indicated by <b>a</b> horizontally.</li> <li>• Clearly show the inflection point.</li> <li>• Draw the line indicated by <b>b</b> diagonally.</li> </ul> <p>(Other writing forms)</p> 
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8

8



- Start from the upper right, and align the end start points.
  - Draw both upper and lower circles the same size.
- (Other writing forms)



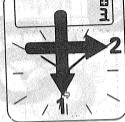
9



- Make the circle a little larger.
  - Align the inflection point with the starting point.
- (Other writing forms)



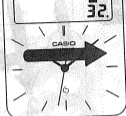
+



- Draw a horizontal and a vertical line intersecting at right angles.
- (Other writing form)



-



- Draw a horizontal line.

9

×



- Draw two diagonal lines intersecting at right angles.
- (Other writing form)



÷



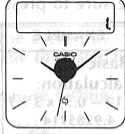
- Input of three strokes or more will become "÷".

=



- Draw two horizontal lines.

.



- Lightly touch the glass. Don't stroke your fingertip over it.

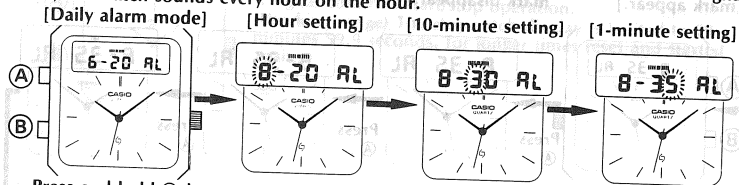
10

Be sure to press the **B** button when starting calculations.

EXAMPLE	OPERATION	READ-OUT	EXAMPLE	OPERATION	READ-OUT
Basic calculation: $(12 - 0.5) \times 3 \div 7 = 4.9285714 \dots$	<b>B</b> 12 [=] [.]	49285714	$3 \times 4 = 12$	<b>B</b> 4 [X] [X] 3 [=]	12
	5 [X] 3 [+/-] 7 [=]		$8 \times 4 = 32$	8 [=]	32
Constant calculation: $3 + 4 = 7$ (4 is constant)	<b>B</b> 4 [+/-] [+/-] 3 [=]	7	$3 \div 4 = 0.75$	<b>B</b> 4 [+/-] [+/-] 3 [=]	0.75
	8 + 4 = 12	12	$8 \div 4 = 2$	8 [=]	2
	3 - 4 = -1	-1	$25^2 = 625$	<b>B</b> 25 [X] [X] [=]	625
	8 - 4 = 4	4	$25^3 = 15625$	[=]	15625
			$25^4 = 390625$	[=]	390625

## 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 the **A** button. If the time signal is set, the watch sounds every hour on the hour.



Press and hold **A** in daily alarm mode to set hours.

One hour advances with every push of **B**.\*

Press **A** to set 10 minutes. 10 minutes advance with every push of **B**.

Press **A** to set minutes. One minute advances with every push of **B**. Press **A** to complete.

\*When the watch is in the 24-hour system, the alarm time is displayed in the 24-hour system.

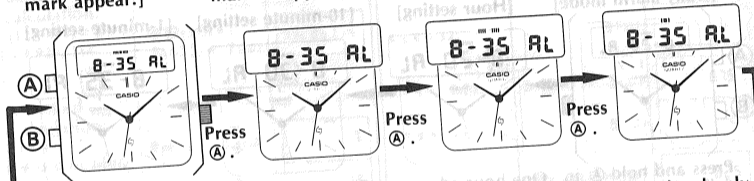
## [ON or OFF setting of daily alarm and time signal]

[The alarm-ON-mark and time-signal-ON-mark appear.]

[The alarm-ON-mark and time-signal-ON-mark disappear.]

[The alarm-ON-mark only appears.]

[The time-signal-ON-mark only appears.]



The daily alarm and time signal sound.

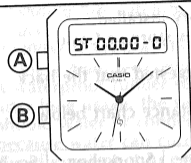
The daily alarm and time signal do not sound.

The daily alarm only sounds.

The time signal only sounds.

Press (A).

## Stopwatch operation



Press (B) to start or stop.  
Press and hold (B) to reset.  
A signal confirms start/stop operation.  
(Working range) The stopwatch display is limited to 59 minutes 59.9 seconds, for longer times reset and started again.

## Setting analog timekeeping

- 1) Pull the crown out when the second hand is at the 12 o'clock position and the second hand stops.
- 2) Set the hands by turning the crown.
- 3) In accordance with a time signal, push the crown in.

A gain or loss of one second or less may result from properties of mechanical parts.

## Care of your watch

- **Battery Life:** 12-month battery life starts when battery is factory installed. At first sign of power fade (dim display), renew battery at sales store or Casio distributor.
- As this watch contains precise electronic components, it is suggested that the back cover be removed by authorized personnel.
- Your watch is ranked A through E according to the water resistance chart below: Check the ranking of your watch to determine proper use.

Rank	Case Designation	Splashes, rain, etc.	Swimming, car-washing, etc.	Snorkeling, diving, etc.	Scuba diving
A*	—	No	No	No	No
B	WATER RESISTANT	Yes	No	No	No
C**	50M WATER RESISTANT	Yes	Yes	No	No
D***	100M WATER RESISTANT	Yes	Yes	Yes	No
E****	200M WATER RESISTANT	Yes	Yes	Yes	Yes

\*The watch is sweat-resistant but not water-resistant. So be careful not to get it wet.

The pendant type does not meet sweat-resistant levels.

\*\*50M WATER RESISTANT casing model does not permit underwater button operations.

\*\*\*100M WATER RESISTANT casing model permits underwater button operations (except where buttons are countersunk).

Should the watch be exposed to sea water, wash it well with fresh water and wipe dry.

\*\*\*\*200M WATER RESISTANT casing model withstands scuba diving use (except diving using helium-oxygen gas).

- A waterproof rubber seal is used to exclude water and dust. As rubber deteriorates after long usage, the seal should be replaced periodically (every 2—3 years).
  - Should water or condensation appear in the watch, immediately have it overhauled because water can corrode electronic parts inside the case.
  - Avoid exposing it to extremely high and low temperatures.
  - Although the watch is designed to withstand shocks under normal use, it is inadvisable to subject it to hard knocks — 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. To avoid surface damage, 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 damp cloth. Discoloration can be removed with detergent.
- Always keep unused watches in a dry place.

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

## Specifications

Accuracy at normal temperature:  $\pm 15$  seconds per month

Display capacity:

- Regular timekeeping mode
  - Analog: Hour, minute and second hands
  - Digital: Hour, minute, second, am/pm, month, date, day
  - Time system: Changeover between 12/24-hour format
  - Calendar system: Auto-calendar pre-programmed until the year 2019
- Calculator mode
  - 8 digits (7 digits for negatives)
  - Abilities: Four basic calculations, chain & mixed operations, constants for  $+ / - / \times / \div$
  - Overflow check: Indicated by the "E" sign, locking the calculator mode
- Stopwatch function
  - Measuring capacity: 59 minutes 59.9 seconds
  - Measuring unit: 1/10th of a second
  - Measuring modes: Normal time and net time

- Daily alarm
- Hourly time signal

Battery:

One silver oxide battery (type: No. 396)

Approx. 12-month on No. 396 (under following condition: alarm — 20 seconds/day, calculation — 10 minutes/day)

*NOTE: THERE IS NO WAY unit components can be damaged or malfunction, due to misoperation of buttons. If confusing information appears on the display it means entry sequence was incorrect. Please read the manual and try again.*

