

# CITIZEN QUARTZ Magic Light

Model No. JQO\*\*\*  
Caliber No. C410

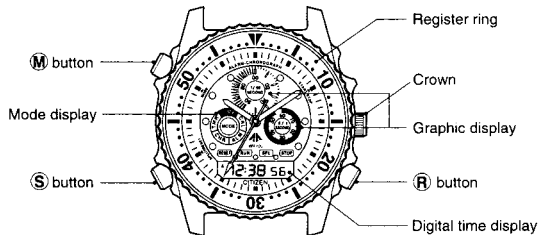
## • INSTRUCTION MANUAL

### CTZ-B6778

#### A. FEATURES

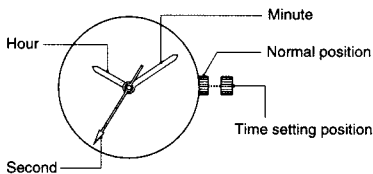
1. This CITIZEN Quartz Watch combines a handsome graphic display and timekeeping feature for convenience of use during daily business and pleasure activities.
2. It is equipped with an EL (Electroluminescent) panel to enable the display to be seen even in dark locations.

#### B. NAME OF PARTS



#### C. SETTING THE TIME

- Pull down the crown to the time setting position.
  - Turn the crown to set the time.
  - Push the crown to the normal position.
- Analog and digital time are set independently.



#### D. EL (ELECTROLUMINESCENCE) ILLUMINATION

EL refers to the emission of light by a phosphorescent substance under the influence of an applied voltage. The panel of this watch provides illumination by electroluminescence.

##### Illumination method

The EL panel will be illuminated under the following conditions.

1. When pressing R button in time mode, or calendar mode.
2. When displaying stop or split time state in chronograph mode.

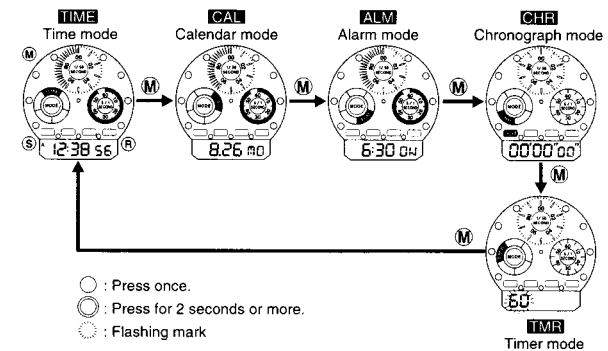
#### Characteristics and replacement of the EL (electroluminescence) panel

The EL (electroluminescence) panel has the following properties.

- When the battery voltage drops, the brightness (intensity) also drops.
- It is adversely affected by humidity. If any water enters inside the watch by accident, promptly request repair.
- The EL panel has a finite life span. The brightness (intensity) gradually drops in proportion to the total number of hours of use (light emission). If the display appears dark or is hard to see when the EL panel is lit, ask either the store where you purchased the product or your nearest CITIZEN Service Centre to replace the EL panel. This repair will be done for a fee.

#### E. MODE SWITCH-OVER

The five modes of this watch include time, calendar, alarm, chronograph and timer.



##### \* Auto return

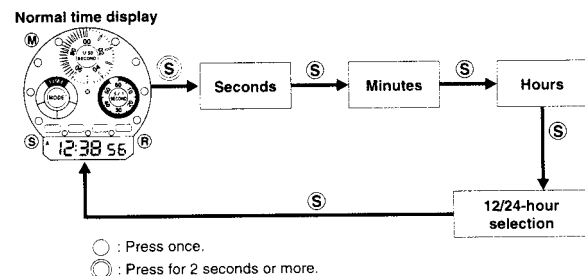
When in the position to set any of the modes, the watch will automatically return to the respective mode's normal display if there is no input for about 2 minutes.

##### \* Manual return

Depress the M button in the any set mode for more than 2 seconds to manually return to the normal time code

#### F. SETTING AND USING THE DIGITAL MODES

##### 1. Time Mode (TIME)



### Setting the time

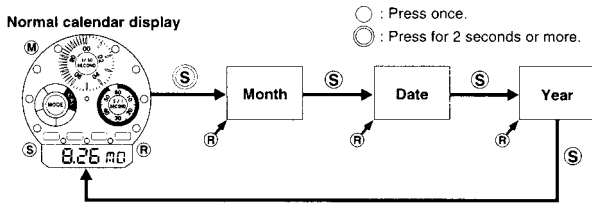
- Press the **S** button in the the normal time mode for more than 2 seconds to enter the adjustment mode. Use the **S** button to reset seconds to zero. Press the **S** button again to move to minutes, hours, and 12/24H in order, and use the **R** button to make adjustments.
- Press the **R** button when setting the time to use the quick-advance feature.

#### \* Manual return

Press the **M** button any time during the setting operation to manually return to the normal display.

## 2. Calendar Mode (CAL)

The watch displays month, day and date information in the normal calendar mode.



### Setting the calendar

- Press the **S** button in the calendar mode for more than 2 seconds to enter the month adjustment mode. Press the **R** button to adjust the month digits. Press the **S** button in the month adjust mode. Press the **R** button to make adjustment.
- Press the **R** button when setting the calendar to use the quick-advance feature

#### \* Manual return

Press the **M** button any time during the setting operation to manually return to the normal calendar display.

- When a nonexistent date is set, the first day of the following month will be shown automatically after returning to the normal calendar display.

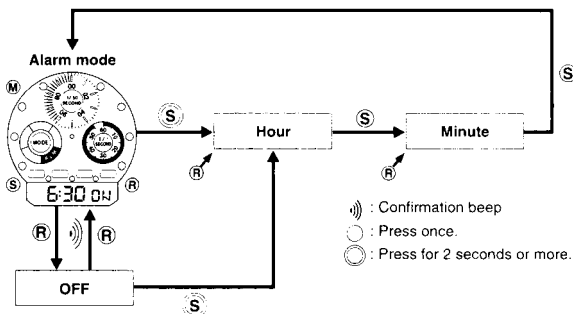
### (Example)

Feb 31-March 1

- The year can be set from 1195 to 2080 and is represented by the last 2 digits of the year.
- The day of the week is automatically set when the year, month and date is adjusted.
- The calendar needs no adjustment at the end of a month.

## 3. Alarm Mode (ALM)

Setting the alarm



- Press the **R** button in the alarm mode to switch the alarm ON/OFF.
- Press the **S** button in the alarm mode for more than 2 seconds to enter the hour adjustment mode. Press the **S** button to adjust the hour digits. Press the **R** button to move to the minute adjustment mode. Press the **S** button to advance the minutes. Press the **R** button to finalise the setting.
- Press the **R** button when setting the alarm time to use the quick-advance feature.
- If the time mode employs the 12-hour systems for the hour display, the alarm set time is also shown by the 12-hour system. AM/PM should be noted.
- The alarm will sound for about 20 seconds. Press any button to stop the alarm.

#### \* Auto return

When in the alarm mode display, the watch will automatically return to time mode after about 2 minutes if there is no input.

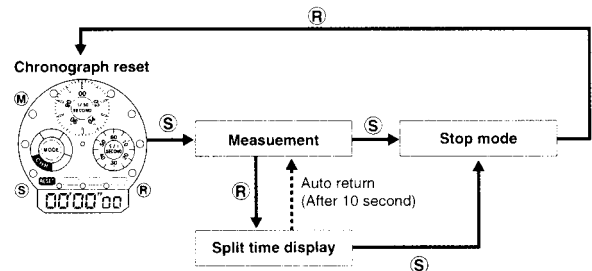
#### \* Manual return

Press the **M** button at any time during the setting operation to manually return to the normal alarm mode.

## 4. Chronograph Mode (CHR)

### Using the chronograph

- Press the **S** button to activate the start/stop switch.
- Press the **R** button to take a time reading. A split time will be displayed for about 10 seconds. Press the **R** button again while the split time is displayed to record another split time.
- Press the **R** button in the stop mode to reset the chronograph.



### Measurement time range:

00:00'00"~23:59'59"99

Once 24 hours have passed, the chronograph automatically resets and stops.

- Press the **M** button in the chronograph mode or during a timing session to switch to another mode.

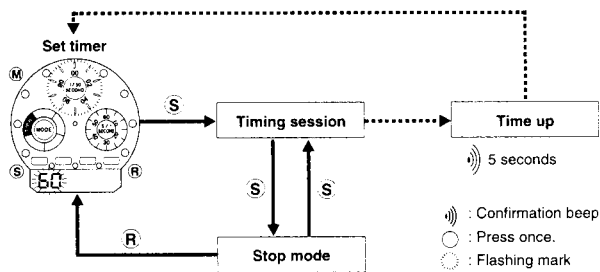
## 5. Timer Mode (TMR)

### Setting the timer

The **(R)** button is used to set the timer. Press and hold down **(R)** button, quick advance feature.

Timer range: Maximum 60 minutes

### Operating the timer



When time is up, there is a 5-second alarm. Afterward, the timer will be reset to its initial setting.

1. Use the **(S)** button to start and stop timer.
2. Press the **(R)** button in the timer stop mode, to reset the time set.
3. Press **(R)** button while the timer counting down to return the timer set time and restart.

- Then the timer will return to the set time. Press **(M)** button in timer mode to a switch to time mode. The timing session will continue to run internally although the mode has been switched.

## G. ALL RESET FUNCTION AND ALARM SOUND MONITOR

### 1. All Reset Function

After replacing the battery, or if an unusual display has appeared, perform the All Reset function as follows.



1. Pull the crown out.
2. Press the **(S)**, **(R)** and **(M)** buttons simultaneously.
3. Release all three buttons. The digital display will be lighted to their maximum extent.
4. Push the crown in. You will hear a confirmation beep indicated that the All Reset function is complete. After that, set the time and calendar.

### 2. Alarm Sound Monitor

To check your alarm sound:

1. Press the **(M)** button to access Alarm Mode (ALM).
2. Press the **(R)** button for 2 seconds or more and the alarm will sound. Release **(R)** button and the alarm will stop sounding.

## H. USING THE REGISTER-RING

- The register-ring gives you a convenient way to calculate the elapsed time or remaining time.

### <Calculating the elapsed time>

- Align the minute hand with the register-ring zero mark (**(▼)**). The elapsed minutes since the ring was set can now be easily calculated by comparing the positions of the zero mark and the minute hand.

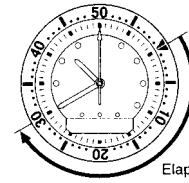


Fig. 1

### Example:

1. Current time is 10:10. Align the zero mark (**(▼)**) to the 25 minute mark on the dial.
2. The watch is next checked at 10:40. To determine the elapsed time, read the number of the register-ring at the minute hand position. The elapsed time is 30 minutes (fig. 1).

### <Calculating the remaining time>

- Align the register ring zero mark (**(▼)**) with the target time and use the ring's calibrations to calculate the remaining time.

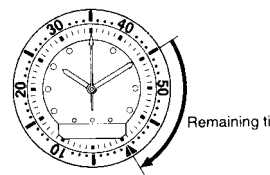







Fig. 2

### Example:

1. The target time is 10:25. Set the register-ring zero mark (**(▼)**) to the 25 minute mark on dial.
2. If the current time is 10:10, the remaining time is 15 minutes (60 minus 45) as calculated from the register-ring (fig. 2).

## I. PRECAUTIONS

### Water Resistance

Classification	Specification	Indication		Water-related use				
		Dial	Case back					
No water resistance	Non	Non	Non	NO	NO	NO	NO	NO
Water resistance for daily life	3 bar water resistance watch	Non	WATER RESIST (ANT)	OK	NO	NO	NO	NO
Reinforced water resistance for daily life.	5 bar water resistance watch	WATER RESISTANT WR ###/### bar	WATER RESIST (ANT)	OK	OK	NO	NO	NO
	10 bar/20 water resistance watch	WATER RESISTANT WR ###/### bar	WATER RESIST (ANT)	OK	OK	OK	NO	NO
*WATER RESISTANT* may sometimes be abbreviated as *WATER RESIST*				*Always set the crown in the normal position.			*Tighten screw lock crown completely	

- To prevent water coming into contact with the internal mechanism of the watch, the crown should under no circumstances be pulled out while the watch is wet.
- If watches designed for sports or working in the water are exposed to salt water or significant amounts of sweat, they should be rinsed in fresh water and dried thoroughly.
- Exposure to water may affect the durability of some types of leather bands.
- Because the internal watch parts may hold some moisture, if the external temperature is lower than that inside the watch, the glass covering the watch face may fog up.  
If this fogging up is only temporary it poses no problem, however, if it persists over a long period of time you should discuss the matter with a salesperson at the shop where you purchased the watch or at a Citizen Service Centre.

#### Temperature

- Avoid exposing the watch to direct sunlight or leaving it in extremely hot or cold locations for a long period of time.
- This will cause malfunctioning and shorten the life of the battery.
  - This may cause your watch to gain or lose time and affect its other functions.

#### Shock

- This watch will withstand the bumps and jars normally incurred in daily use and while playing such non-contact sports as golf and catchball.
- Dropping the watch on the floor or otherwise imparting severe shock to it may cause malfunctioning or damage.

#### Static Electricity

- The integrated circuits used in the watch are sensitive to static electricity. If exposed to intense static electricity, the watch's display may lose its accuracy.

#### Chemicals and Gases

Avoid wearing the watch in the presence of strong chemicals or gases. If the watch comes in contact with such solvents as thinner and benzine or products containing materials such as gasoline, nail polish, detergent or adhesive, its components may discolour, dissolve or crack. Be especially careful to avoid chemicals. The watchcase or band may discolour if they come in contact with mercury from a broken thermometer or the equipment.

#### Keep Your Watch Clean

Wipe off soil and moisture from the glass with a soft, absorbent cloth. If you wear the watch when the back side of the case and watchband is soiled they may cause a skin rash as they come in direct contact with your skin. Keep your watch clean also to avoid staining your cuffs.

#### Battery

- The battery is a monitor battery that has been factory-installed. For this reason it may wear out after purchase before the specified battery life (about 3 years) has elapsed.
- **Be sure to keep the battery out of the reach of infants and small children. Should accidental ingestion occur, consult a doctor immediately.**

## J. SPECIFICATIONS

1. **Accuracy:**  $\pm 20$  seconds/month  
(5°C to 35°C/41°F to 95°F)
2. **Display method:** Digital display  
Three-hand analog display
3. **Effective temperature range:** 0°C to 55°C/32°F to 131°F
4. **Display functions**  
Analog display of time (hours, minutes, seconds)  
**Digital display functions**
  - Time
  - Calendar.....month/date/day
  - Alarm.....AM/PM, hours, minutes, ON/OFF
  - Chronograph..24-hour system, split time function
  - Timer.....Timer range: 60 mins max
5. **Additional function:** Illumination by EL  
(electroluminescent) panel
6. **Battery used:**  
Part No.....280-44  
Battery name.....SR927W  
Battery life.....approx. 2 years (when the  
EL panel is lit 3 seconds a  
day)

**Note** This battery longevity varies with the usage of the alarm, chronograph, EL panel, and so on. If the chronograph is not being used, make sure to reset it (to 00'00"00).

The product specifications are subject to change without notice for the purposes of product improvement.