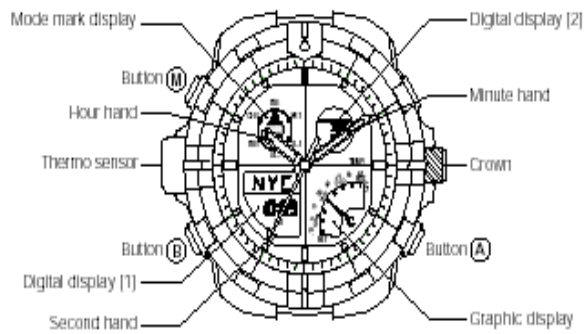


**WINGMAN TEMP
(Ca. No. C720)**

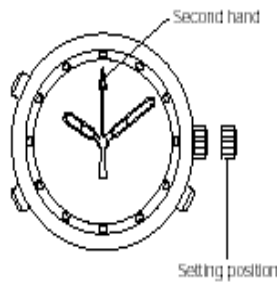
NAMES OF COMPONENTS



FEATURES

This watch is a combination quartz watch with a world time function, which displays the time in 30 world cities and the UTC (Coordinated Universal Time), and a thermometer function. It also includes an EL (electroluminescence) light function.

SETTING THE HANDS



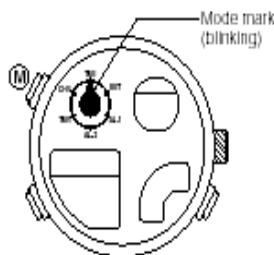
- (1) Pull the crown out to stop the second hand.
- (2) Turn the crown to set the correct time.
- (3) Press the crown back in to restart.

Not: Analog and digital time can be set individually as a dual-time watch.

CHANGING DIGITAL FUNCTIONS (MODES)

This watch has the modes (functions) listed below.

Each time button (M) is pressed, the mode changes. The current mode is indicated by the mode mark. For details on how to use each mode, see the appropriated section.



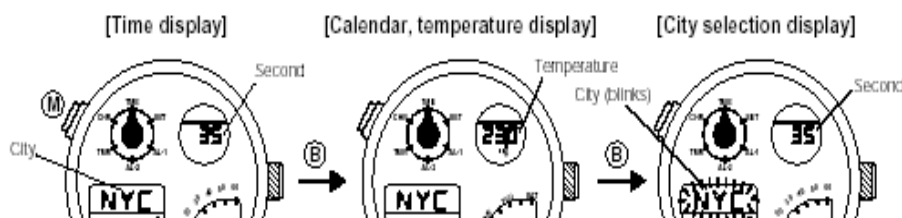
Mode mark	Mode (function)
TME	Time/Calendar
SET	Zone Set*1
AL-1	Alarm 1
AL-2	Alarm 2
TMR	Timer
CHR	Chronograph

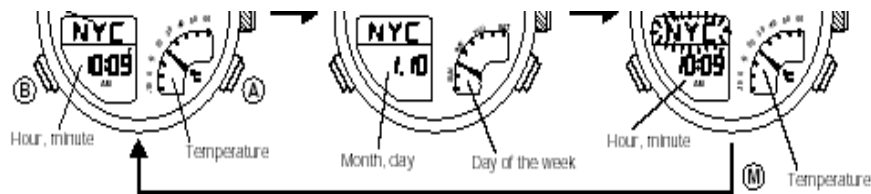
*1: Zone Set mode

This mode ables to set, for each of 30 world cities and the UTC (Coordinated Universal Time), a display (SET)/non-display (OFF) setting and a summer time setting.

* If the watch is left in the Zone Set mode, Alarm 1 or Alarm 2 mode for approximately 2 minutes, it will automatically return to Time/Calendar mode.

TIME/CALENDAR MODE





Changing the display

- The "time display" changes to "calendar, temperature display" when button **B** is pressed.
- The "calendar, temperature display" changes to "city selection display" when button **B** is pressed.
- The "city selection display" changes to "time display" when button **M** is pressed.
- When you change to "calendar, temperature display", the temperature will be measured and displayed at 2-second intervals for approximately 2 minutes. (Temperature measurement by button operation)
- The graphic display in "time display" and "city selection display" is an approximate indication of the latest measured temperature.
- In each of the displays, the EL light goes on when button **A** is pressed.

Changing the city

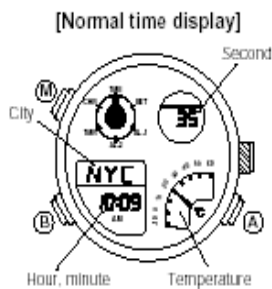
- During the "city selection display" (city name blinks), every time button **(B)** is pressed, the displayed city will change according to the sequence shown in the chart
- If button **(A)** is pressed while button **(B)** is being pressed, the displayed city will change in the opposite order.
- * After changing the displayed city, press button **(M)** to return to time display.
- * A city for which OFF has been selected in the Zone Set mode will not be displayed.
- * In the chart, cities (regions) with summer time system are indicated by O, X without summer time system.
- * Time difference and summer time for cities, are subject to change. (The chart shows the situation in 1997.)

<The time difference between the cities and UTC time>

No.	Indication	City	Time difference	Summer-time	No.	Indication	City	Time difference	Summer-time
1	UTC	Universal time coordinated	±0	—	17	TYO	Tokyo	+9	X
2	LON	London	±0	O	18	SYD	Sydney	+10	O
3	PAR	Paris	+1	O	19	NOU	Noumea	+11	X
4	ROM	Rome	+1	O	20	AKL	Auckland	+12	O
5	CAI	Cairo	+2	O	21	HNL	Honolulu	-10	X
6	IST	Istanbul	+2	O	22	ANC	Anchorage	-9	O
7	MDW	Moscow	+3	O	23	LAX	Los Angeles	-8	O
8	KWI	Kuwait	+3	X	24	DEN	Denver	-7	O
9	DXB	Dubai	+4	X	25	CHI	Chicago	-6	O
10	KHI	Karachi	+5	X	26	MEX	Mexico City	-6	X
11	DEL	New Delhi	+5.5	X	27	NYC	New York	-5	O
12	DAC	Dacca	+6	X	28	YUL	Montreal	-5	O
13	BKK	Bangkok	+7	X	29	CCS	Caracas	-4	X
14	SIN	Singapore	+8	X	30	RIO	Rio de Janeiro	-3	O
15	HKG	Hong Kong	+8	X	31	BLU	Buenos Aires	-3	X
16	PEK	Beijing	+8	X					

[Setting time and calendar]

If the time and calendar settings for any of the 30 cities or the UTC are adjusted, those for all of the other cities will automatically be adjusted.



- (1) Display the adjusting city.
- (2) Press button **(B)** continuously for more than 2 seconds in time or calendar/temperature display. It will then become possible to adjust the figures. The blinking figures can be adjusted.
- (3) Each time button **(B)** is pressed, the blinking figures will change according to the following sequence: summer time → second → minute → hour → 12-hour/24-hour → month → day → year.
- (4) Press button **(A)** to adjust the figures. By continuously pressing button **(A)**, the figures change quickly.
- (5) Press button **(M)** to return to normal display.

- The seconds will return to 00 and start again if button **(A)** is pressed. (Moreover, if the seconds are between 30 and 59, the minutes will increase by 1.)
- 12-hour/24-hour system will alternately switch, each time button **(A)** is pressed.
- * Be careful to set AM and PM correctly in 12-hour system.
- * The year can be set from 2000 to 2099. (The year is only displayed at time of adjustment.)
- * Setting the year, month and day automatically sets the day of the week.
- * If a non-existent date (for example, February 30) is set, the first day of the next month is displayed automatically by returning to the normal display.
- * This watch has an automatic calendar, so it is not necessary to make adjustments for the ends of months, even in leap years.
- Each time button **(A)** is pressed when SUMMER is blinking, the summer time setting will alternately switch on (ON) or OFF.

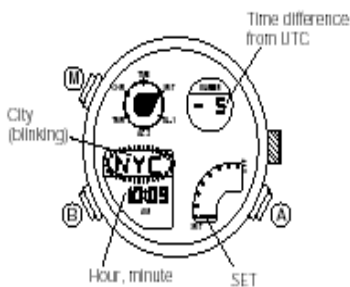
- Each time button $\text{\textcircled{A}}$ is pressed when SUMMER is blinking, the summer time setting will alternatively switch on (ON) or OFF.
 - * After the summer time setting is switched ON, "SUMMER" and a time one hour ahead of the regular time (the time when the summer time setting was OFF) will be displayed. (This only applies to cities with summer time settings ON.)
-

ZONE SET MODE

For each of the 30 cities and the UTC this watch displays, it is possible to set a display/non-display setting, as well as a summer time setting (except for UTC).

Only cities with a SET setting will be displayed in Time/Calendar mode and Alarm modes.

[Zone setting display]



[Setting zone(city) and summer time]

- (1) Press button **(B)** to display the zone setting city.
- (2) Press button **(B)** continuously for more than 2 seconds. In the graphic display, SET (display) or OFF (non-display) will blink.
- (3) Press button **(A)** and select SET or OFF for the displayed city.
- (4) Press button **(B)**. "SUMMER" and ON or OFF will blink.
- (5) Press button **(A)** and select ON or OFF for the summer time setting.
 - If you wish to input settings for other cities, press button **(B)** again. The watch will enter the adjustment mode for the next city. Then carry out in order, the same steps, selecting SET (display) or OFF (non-display) and a summer time setting.
- (6) After completing the settings, press button **(M)** to return to normal display

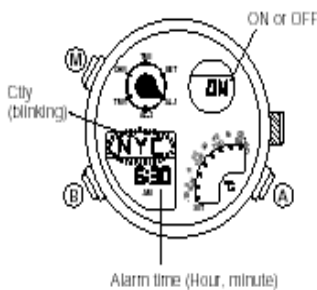
[EL light]

- When button **(A)** is pressed during the normal display, the EL light goes on.

ALARM 1 & 2 MODES

Alarm 1 and Alarm 2 differ only in the sounds they make. They are used and set in exactly the same way. When the alarm is set (ON) once, it sounds for 20 seconds same time everyday. The alarm sounds stop by pressing any button.

[Normal alarm setting display (ON)]



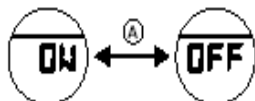
[Setting alarm]

When you set an alarm time for one city, the same alarm time will automatically be set for every other city.

- (1) Press button **(B)** to display the alarm setting city.
- (2) Press button **(B)** continuously for more than 2 seconds. The "Hours" will blink.
- (3) Press button **(A)** to set the "Hours". By continuously pressing button **(A)**, the figures change quickly.
- (4) Press button **(B)**. The "Minutes" figure will blink.
- (5) Press button **(A)** to set the "Minutes".
- (6) Press button **(M)** to return to normal display.

[Alarm ON/OFF and alarm monitor]

Each time button **(A)** is pressed during the normal alarm display, alarm setting switches alternately between ON and OFF. Also, the alarm sound can be confirmed by continuously pressing button **(A)**.



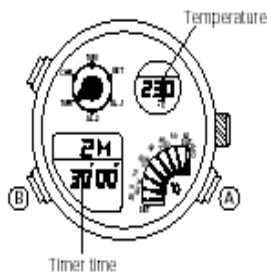
* When Time/Calendar mode is on 12-hour system, alarms operate on the same system. Please pay attention to AM/PM when setting alarm times.

* After alarm is set, the alarm time will not change even if Time/Calendar mode is set to summer time.

TIMER MODE

The timer can be set, in increments of 1 minute, for up to 100 hours. After a set time elapses, a time-up signal sounds for approximately 5 seconds. The timer then returns to the set time and stops.

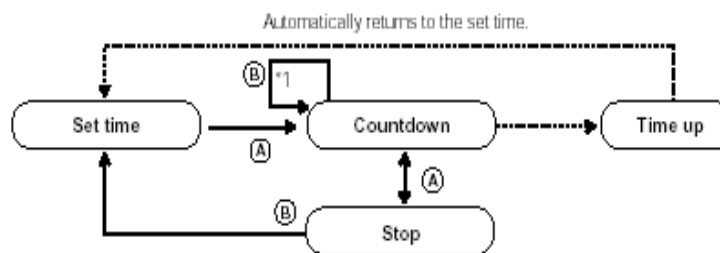
[Timer setting display]



[Setting timer]

- (1) Press button **(B)**. The "Minutes" will blink.
- (2) Press button **(A)** to set the "Minutes". By continuously pressing button **(A)** the figures changes quickly.
- (3) Press button **(B)**. The "Hours" will blink.
- (4) Press button **(A)** to set the "Hours".
- (5) Press button **(M)** to return to the timer setting display.

Timer countdown



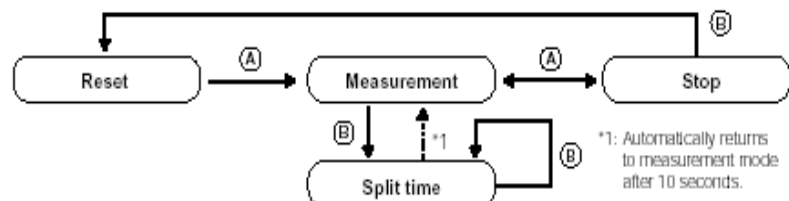
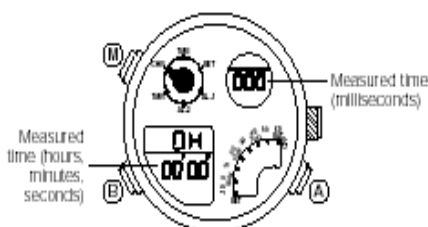
- (1) Press button **(A)** to start the timer at the set time.
- (2) If button **(A)** is pressed during timer countdown, the timer stops. If button **(A)** is pressed again, the timer restarts.
- (3) If button **(B)** is pressed when the timer stops, the display returns to the timer set time.

- If button **(B)** is pressed during timer countdown, the mode immediately changes to timer set time display and restarts. *1: Timer restart function
- At the time of start, stop, reset or timer restart operation in timer mode, a confirmation sound is heard.

Chronograph mode <CHR>

The chronograph is capable of measuring and indicating a maximum of 23 hours, 59 minutes, 59 seconds and 999 milliseconds in increments of 1/1000 second. After 24 hours, it stops with a reset display of "00'00'00'000". The chronograph can also measure split time (elapsed time).

[Chronograph reset display]



[Total elapsed time measurement]

- (1) The chronograph starts or stops each time button **(A)** is pressed.
- (2) To reset the chronograph, press button **(B)** after it is stopped.

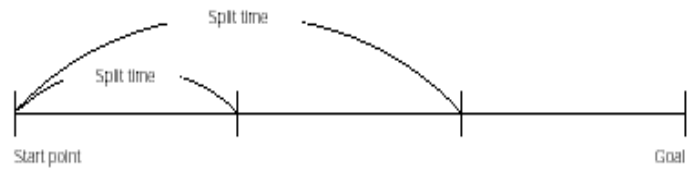
[Split time measurement]

- (1) The chronograph starts or stops each time button **(A)** is pressed.

- (1) The chronograph starts or stops each time button (B) is pressed.
- (2) Press button (B) during a time measurement, and the watch shows a split time for 10 seconds. While a split time is shown, "SPLIT" will blink. Each time button (B) is pressed, the chronograph shows the latest split time.
- (3) To reset chronograph, press button (B) after it is stopped.

- At the time of start, stop, split time check or reset operation in chronograph mode, a confirmation sound is heard.
- At the time of stop or a split time measurement, the EL light is turned on for 3 seconds with the sound.

Split time: Elapsed time from start point



THERMOMETER

Temperature is measured in two ways:

<Automatic temperature measurement>

Temperature is automatically measured every hour on the hour, with the temperature display then being updated. However, measurement will not be carried out if the Chronograph mode or Time/Calendar mode is in the adjustment mode (blinking display) at measurement time.

<Temperature measurement by button operation>

If you change to the "calendar, temperature display" in the Time/Calendar mode, the temperature will be measured at 2-second intervals for 2 minutes.

<Temperature measurement range and accuracy>

	In Centigrade (°C)	On Fahrenheit scale (°F)
Temperature display range	-9.9°C - +59.9°C	14°C - 139°F
Measurement unit	0.1°C	1°F
Measurement accuracy	20°C - 30°C : ±1°C -5°C - +40°C : ±2°C	36°F - 86°F : ±2°F 23°F - 104°F : ±4°F

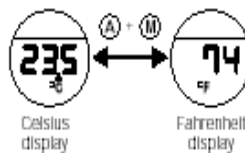
(Note)

- If the watch is worn on the wrist during temperature measurement, the body temperature affects measurement.

For accurate temperature measurement, take the watch off and leave it in the measuring environment at least for 20 to 30 minutes. The influence of body temperature depends on environmental conditions such as difference between atmospheric temperature and body temperature before taking the watch off, etc.

- Do not use the thermometer out of the display range. Extremely hot or cold temperature may cause breakdown of the watch.

<Switching temperature display between centigrade and Fahrenheit>



In the Time mode's "Date, calendar display", by pressing button **M** for more than 2 seconds while button **A** is pressed, the temperature display will switch from Celsius (°C) to Fahrenheit (°F) or vice versa.

If button **M** is pressed first, however, the display will not change.

- The thermometer indicates the current or last measured temperature in all modes except the chronograph mode.

<About the graphic display of approximate temperature>

Approximate temperature is graphically displayed in the Time mode's "time display" and "city selection display."

The graphic display always shows Celsius temperature, even when the numerical display has been set to Fahrenheit.

LOW BATTERY INDICATOR



When the battery gets weak, the low battery indicator function appears

- The second hand moves at 2-second intervals (moves by 2 increments every seconds).
- The temperature display starts to blink " --- " continuously.

Even when the watch falls into such condition, it still displays the time but the EL light, thermometer and alarm will not function. Immediately replace the battery with new one.

ALL RESET

After replacement of the battery, be sure to perform the all reset operation :

If the watch malfunctions or shows an abnormal display as a result of an excessive shock or static electricity (for example, the watch indicates nothing, continuously sounds alarm, etc.). Perform the all reset operation.



[All reset procedure]

- (1) Pull the crown out.
- (2) Simultaneously press buttons **A**, **B** and **M**.
- (3) Release the three buttons.
- (4) Press the crown back. (A confirmation sound is heard.)

All reset operation is complete.

Before use, reset the watch for the correct time in all modes.

SPECIFICATIONS

- Model : C720
 - type : Combination quartz watch
 - Accuracy Within ± 20 sec per month on average (When worn at normal temperature of $+5^{\circ}\text{C}$ to $35^{\circ}\text{C}/41^{\circ}\text{F}$ to 95°F)
 - Operating temperature range : 0°C to $+55^{\circ}\text{C}/32^{\circ}\text{F}$ to 131°F
 - Display functions
 - Analog Hour, Minutes, seconds (3hands)
 - Digital • Time/calendar (Hour, minutes, second/Month, Date, Day)
 - Zone set
 - Alarm1/Alarm2 : Hour, Minutes, ON/OFF
 - Timer (100 minutes measurement)
 - Chronograph (24hour measurement)
 - Additional functions
 - World time function (time zone setting)
 - EL light function
 - Thermometer function
 - Low battery indicator function
 - Battery : 280-44 (Battery code:SR927W)
 - Battery life : Approx. 2 years (Based on assumed use of alarm sound : 30 sec./day, timer sound : 5sec./day and EL illuminate : 3sec./day)
-