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2. Names of Components and Major Functions

Name/Mode	Time	Calendar	Alarm 1	Alarm 2
① Mode hand	TME	CAL	AL-1	AL-2
② Hour hand	Always indicates "hours"			
③ Minute hand	Always indicates "minutes"			
④ Second hand	Always indicates "second"			
⑤ 24 hour hand	Always indicates "24-hour time" in conjunction with hours and minutes			
⑥ UTC hour hand	Always indicates "UTC hours"			
⑦ UTC minute hand	Always indicates "UTC minutes"			
⑧ Digital display 1	Hours, minutes, seconds, A/P, SMT (when set to daylight savings time)	Month, date, day, SMT (when set to daylight savings time)	Hours, minutes, A/P, alarm (ON/OFF)	
⑨ Digital display 2	City name			

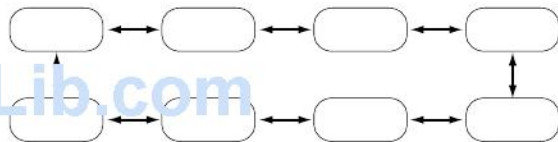
Alarm 3	Chronograph	Destination Timer	Zone setting
AL-3	CHR	DST	SET
Always indicates "hours"			
Always indicates "minutes"			
Always indicates "second"			
Always indicates "24-hour time" in conjunction with hours and minutes			
Always indicates "UTC hours"			
Always indicates "UTC minutes"			
Hours, minutes, A/P, alarm (ON/OFF)	Measured time (seconds, minutes, 1/100 seconds)	Remaining time display (Hours, minutes, seconds)	City name (SET/OFF) SMT (ON/OFF)
City name	Measured time (hours)	City name	City name

Name /Mode	Crown position	Time	Calendar	Alarm 1	Alarm 2
Crown	Normal position	Mode switching			
	1st click	-----			
	2nd click	Time correction	Date correction	Alarm time correction	
Button (A)	Normal position	Changing the city			
	1st click	-----			
	2nd click	Switching location to be corrected			
Button (B)	Normal position	Changing the city			
	1st click	-----		Switching alarm (ON/OFF)	
	2nd click	Switching SMT (ON/OFF) Switching between "seconds" correction and "24 hour time"	-----	Switching alarm (ON/OFF)	
Button (C)	Normal position	EL illumination	EL illumination	EL illumination	EL illumination
	1st click	EL illumination	EL illumination	EL illumination	EL illumination
	2nd click	-----	-----	EL illumination	EL illumination

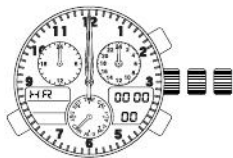
Alarm 3	Chronograph	Destination Timer	Zone setting
Mode switching			
-----			Changing the city
Alarm time correction	0-position setting	Destination timer correction	City name, time difference setting
Changing the city	Start/stop	Switching indication (remaining time/setting time)	Changing the city
-----			Switching city name (SET/OFF)
Switching location to be corrected		Switching the location of correction	Switching location to be corrected
Changing the city	Split, reset	Switching indication (setting time/setting date)	Changing the city
Switching alarm (ON/OFF)	-----		Switching SMT (ON/OFF)
Switching alarm (ON/OFF)	-----	Switching between RUN/STP	-----
EL illumination	EL illumination	EL illumination	EL illumination
EL illumination	EL illumination	EL illumination	EL illumination
EL illumination	-----	EL illumination	EL illumination



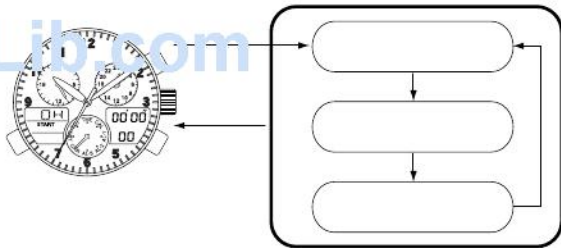
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5. Accessing Times or Dates of Major Cities

The time or date of major cities pre-registered in this watch can be easily accessed by pressing the buttons.

<Access Procedure>

1. Turn the crown to set the mode hand to the time [TME] or [CAL] calendar mode.
2. When button (A) is pressed, the times or dates of major cities are displayed while scrolling up each time it is pressed.
3. When button (B) is pressed, the times or dates of major cities are displayed while scrolling down each time it is pressed.
 - Pressing button (A) or (B) continuously causes the display to advance rapidly.

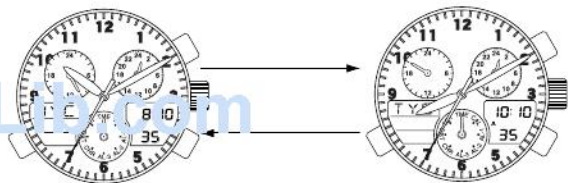
<Cities and UTC Time Differences Pre-registered in this Watch>

Display on watch	City name	Time difference	Daylight savings time	Display on watch	City name	Time difference	Daylight savings time
UTC	Universal time constant	±0	---	TYO	Tokyo	+9	×
LON	London	±0	○	SYD	Sydney	+10	○
PAR	Paris	+1	○	NOU	Noumea	+11	×
ROM	Rome	+1	○	AKL	Auckland	+12	○
CAI	Cairo	+2	○	HNL	Honolulu	-10	×
IST	Istanbul	+2	○	ANC	Anchorage	-9	○
MOW	Moscow	+3	○	LAX	Los Angeles	-8	○
KWI	Kuwait	+3	×	DEN	Denver	-7	○
DXB	Dubai	+4	×	CHI	Chicago	-6	○
KHI	Karachi	+5	×	MEX	Mexico City	-6	×
DAC	Dacca	+6	×	NYC	New York	-5	○
BKK	Bangkok	+7	×	YUL	Montreal	-5	○
SIN	Singapore	+8	×	CCS	Caracas	-4	×
HKG	Hong Kong	+8	×	RIO	Rio de Janeiro	-3	○
PEK	Beijing	+8	×	BUE	Buenos Aires	-3	×

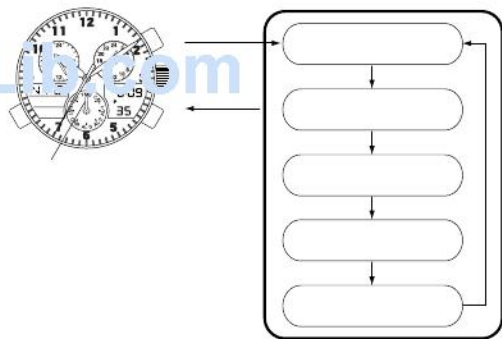
* Cities (regions) in which daylight savings time is used are indicated with a ○, while those in which it is not are indicated with an ×.

* The time difference and use of daylight savings time of each city are subject to change by the particular country.

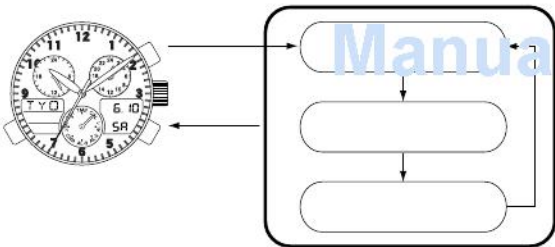
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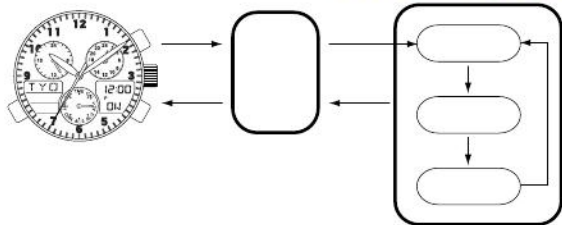


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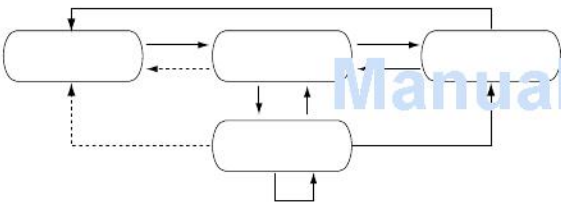
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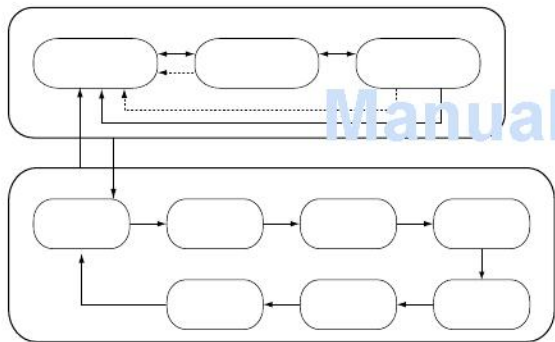


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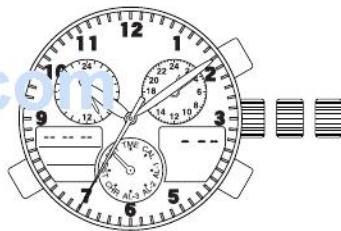
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16. Using the Register Ring

The bezel design may vary depending on the model.

[Calculation function]

Note the following points when using this function. Use the calculation function of this watch only as a guide. These scales do not indicate the position of the decimal point.

A. Navigational calculation

1) Time required

Example: Obtain the time required for the flight of an aircraft at 180 knots for 450 nautical miles.

Answer. Align "18" on the outer scale with the SPEED INDEX (▲) on the inner scale. Then, "45" on the outer scale corresponds to "2:30" on the inner scale (time scale). Thus, the time required for the flight is 2 hours and 30 minutes.

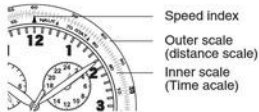
2) Knots (air speed)

Example: Obtain the knots (air speed) for 240 nautical miles with a flight time of 1 hour and 20 minutes.

Answer. Align "24" on the outer scale with "1:20" on the inner scale (time scale). Then, the SPEED INDEX (▲) on the inner scale corresponds to "18" on the outer scale. Thus, the air speed for the flight is 180 knots.

3) Flight distance

Example: Obtain the air distance when the air speed is 210 knots and the flight time is 40 minutes.



Answer. Align "21" on the outer scale with the SPEED INDEX (▲) on the inner scale, then, "40" on the inner scale corresponds to "14" on the outer scale. Thus, the air distance of the flight is 140 nautical miles.

4) Rate of fuel consumption

Example: Obtain the rate of fuel consumption (gallons / hour) when the flight time is 30 minutes and the fuel consumption is 120 gallons.

Answer. Align "12" on the outer scale with "30" on the inner scale. Then, the SPEED INDEX (▲) on the inner scale corresponds to "24" on the outer scale. Thus, the fuel consumption is 240 gallons per hour.

5) Fuel consumption

Example: Obtain the fuel consumption required for a flight when the rate of fuel consumption is 250 gallons per hour and the flight time is 6 hours.

Answer. Align "25" on the outer scale with the SPEED INDEX (▲) on the inner scale. Then, "6:00" on the inner scale (time scale) corresponds to "15" on the outer scale. Thus, the fuel consumption is 1,500 gallons.

6) Estimated flight time

Example: Obtain the estimated flight time when the rate of fuel consumption is 220 gallons per hour and the aircraft has 550 gallons of fuel.

Answer. Align "22" on the outer scale with the SPEED INDEX (▲) on the inner scale. Then, "55" on the outer scale corresponds to "2:30" on the inner scale (time scale). Thus, the estimated flight time is 2 hours and 30 minutes.

7) Difference in altitude

The difference in altitude can be obtained from the rate of descent and the descent time.

Example: Obtain the difference in altitude when an aircraft continues descending for 23 minutes at a rate of 250 feet per minute.

Answer. Align "25" on the outer scale with "10" on the inner scale. Then, "23" on the inner scale corresponds to "57.5" on the outer scale. Thus, the difference in altitude is 5,750 feet.

8) Rate of climb (or descent)

The rate of climb (or descent) can be obtained from the time required to reach an altitude.

Example: Obtain the rate of climb when an aircraft reaches an altitude of 7,500 feet after climbing for 16 minutes.

Answer. Align "75" on the outer scale with "16" on the inner scale. Then, "10" on the inner scale corresponds to "47" on the outer scale. Thus, the rate of climb is 470 per minute.

9) Time of climb (or descent)

The time required for climb can be obtained from the altitude to be reached and the rate of climb (or descent).

Example: Obtain the time of climb when an aircraft is to climb to 6,300 feet at a rate of 550 feet per minute.

Answer. Align "55" on the outer scale with "10" on the inner scale. Then, "63" on the outer scale corresponds to "11.5" on the inner scale. Thus, the time of climb is 11 minutes and 30 seconds.

10) Conversion

Example: Convert 30 statute miles into nautical miles and kilometers.

Operation: Align "30" on the outer scale with STAT (▲) on the inner scale. Then, NAUT (▲) on the inner scale corresponds to "26" nautical miles on the outer scale, and "12 km" (s) on the inner scale corresponds to "48.2" km on the outer scale.

B. General Calculation Functions

1) Multiplication

Example: 20×15

Operation: Align "20" on the outer scale with "10" on the inner scale. Then, "15" on the inner scale corresponds to "30" on the outer scale. Take into account the position of the decimal point and add one zero to obtain 300. Note that with the scales of this watch, the position of the decimal point cannot be obtained.

2) Division

Example: $250 / 20$

Operation: Align "25" on the outer scale with "20" on the inner scale. Then, "10" on the inner scale corresponds to "12.5" on the outer scale. Take into account the position of the decimal point to obtain 12.5.

3) Proportion

Example: $30/20 = 60/x$

Operation: Align "30" on the outer scale with "20" on the inner scale. Then, "60" on the outer scale corresponds to "40" on the inner scale. At this point, the proportion for every value on the inner and outer scales is 30:20.

4) Square root

Example: Square root of 225

Operation: Turn the outer scale slowly and find a value that corresponds to both "22.5" on the outer scale and "10" on the inner scale. In this example, "22.5" on the outer scale corresponds to "15" on the inner scale, and "10" on the inner scale corresponds to "15" on the outer scale. Thus, the answer is 15.

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