

HFA INSTRUCTION MANUAL

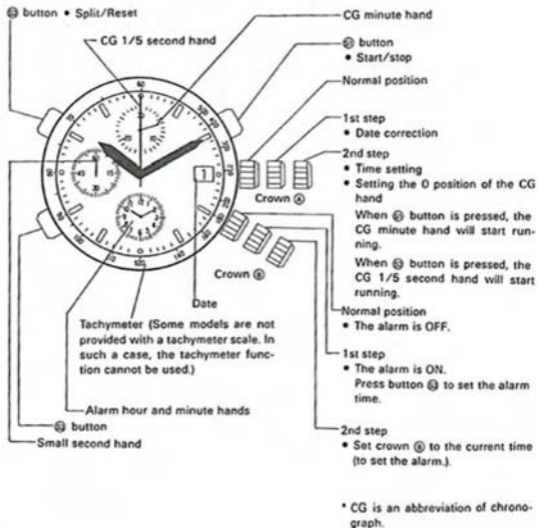
Thank you for purchasing your Orient Quartz Wristwatch. To ensure prolonged use and optimum performance, please read this instruction manual carefully and familiarize yourself with the terms of warranty. We suggest that you keep this instruction manual at hand and refer to it whenever required.

SPECIFICATIONS

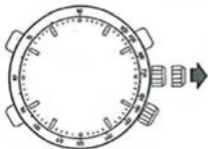
- | | |
|--|---|
| (1) Crystal oscillator frequency | 32,768 Hz (Hz=Oscillations per second) |
| (2) Wrist-worn accuracy
(at normal temperature) | Mean monthly rate: within ± 20 sec. |
| (3) Drive system | Step motor |
| (4) Accessory functions | Second hand regulator (small second hand)
Reset switch
Quick-forwarding date corrector
Battery life alarm function
Stop watch (1/5 sec. - 30min. meter, integrating function, split function)
Alarm function
Chronograph 0-position setting function
Silver oxide battery SEIZAIKEN SR927W |
| (5) Battery | Approx. 2 years from installation |
| (6) Battery life | * When alarm is used once (for 20 seconds) and stop watch for 1 hour |

* The above specifications are subject to change without notice for improvement.

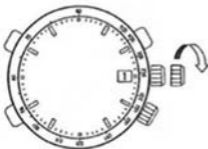
SWITCH BUTTONS AND THEIR FUNCTIONS



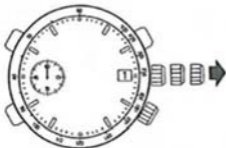
HOW TO SET TIME AND CALENDAR



1. Pull out the crown **A** one step.



2. Set the date for the previous day by turning the crown **A** .
The date can be corrected by turning the crown **A** clockwise.
Do not set the calendar when the hands are pointing to a time between 10 P.M. and 1 A.M.
Calendar correction is under way during that time. Make calendar correction by turning the hands outside this range.



3. When the small second hand reaches the position of 0 second, pull out the crown **A** one step farther. The small second hand will stop.



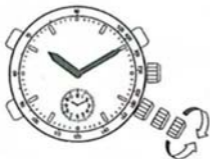
- Set the time by turning the crown ④.
Since the date changes at midnight, take care not to confuse A.M. and P.M. when setting the time.
- For a precise setting, set the minute hand several minutes ahead, then return it to the desired time.



- Push crown ④ in to its original position in synchrony with a time signal. The watch will then start running.

HOW TO USE THE ALARM

- The alarm can be set at every 1 minute in the 12-hour system.



[Basic operations before setting alarm]

- Pull crown ⑥ out to the second click position, and turn crown ⑥ to set the hour and minute hands to the current time.
After setting, push crown ⑥ in to its original position.
- When crown ⑥ is pulled out to the second click, a buzzer will sound for about 1 second. When the buzzer stops, the alarm time set previously is cancelled. (However, the previous alarm time will

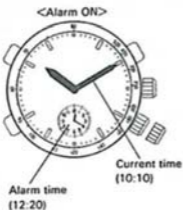
not be cancelled if crown ⑧ is pushed in while the buzzer is sounding.)



2. Pull crown ⑧ out to the first click position to set the alarm to the ON condition. At this time, the alarm will sound. To stop the alarm, press button ⑤, ⑥ or ⑦.
- * If the alarm is left as it is, it will sound for 1 minute.



3. Press button ⑥ and set the alarm to the required time.
- * If the button is kept pressed, the hands will move forward quickly.



[Turning the alarm ON and OFF]

4. Use crown ⑧ to turn the alarm ON and OFF.
- When crown ⑧ is in the normal position, the alarm is OFF; when crown ⑧ is pulled out to the first click, the alarm is ON.

When the alarm is ON, the alarm hour and minute hands indicate the set alarm time.

- * The alarm sounds for about 20 seconds at the preset time.

<Alarm OFF>






When the alarm is OFF, the alarm hour and minute hands indicate the current time.

- * To silence the alarm, press button ,  or  or push the crown  in to its original position.

HOW TO USE THE STOP WATCH

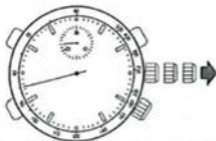


- The timer can be set at every 1/5 second up to a maximum of 30 minutes.
- If you forget to stop the stop watch, it will stop automatically 6 hours later.
- When crown  is pulled out to the second click during operation of the stop watch, or crown  is moved to the first or second click, the stop watch will stop and the hands will return to the 0 position.

Also, when the alarm is ON (crown  pulled out to first click), the stop watch function cannot be used.

CORRECTING THE 0 POSITION OF THE CG HAND

- If the position of the CG hand is not correct, the stop watch will not operate properly. If the CG hand fails to return to the 0 position, perform the following operations to correct the 0 position.



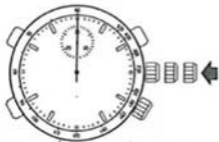
1. Pull out the crown ① two steps.

Correction of CG
1/5 second hand

Correction of CG
minute hand



2. Push S1, S2 buttons and set the CG hand to a correct 0 position.
 - When the button is kept depressed, the hand will be advanced quickly.



3. After the correction is completed, depress the crown ①

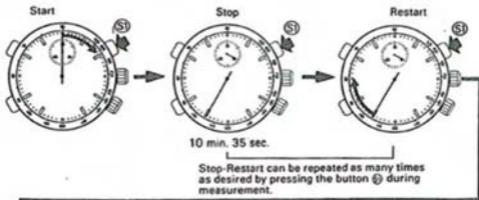
[Normal time measurement]

- Push buttons in the following order:  --  -- .



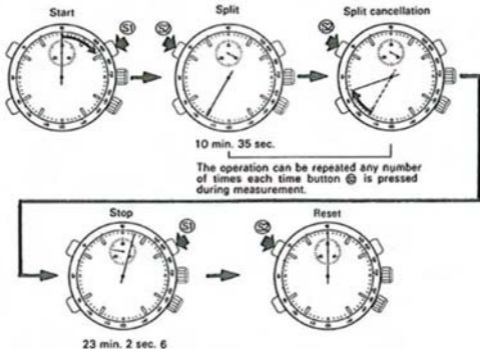
[Integrated time measurement]

- Push buttons in the following order:  --  --  --  --  -- .



[Split time measurement]

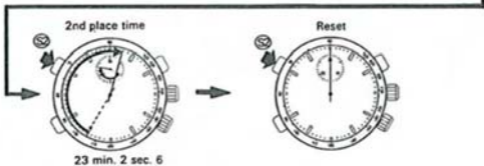
- Push buttons in the following order:  -  -  -  -  -  - .



[Measurement of 1st and 2nd places]

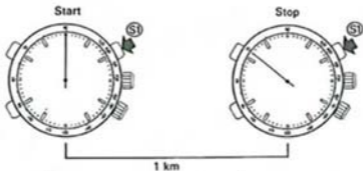
- Push buttons in the following order:  -  -  -  -  -  - .



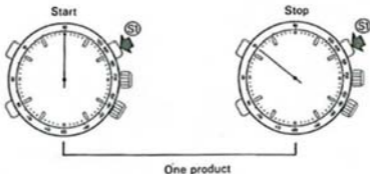


OPERATING THE TACHYMETER

(Speed or output per hour can be measured using this meter.)



- Measurement of speed per hour
 1. Measure the time required to run 1 km.
 2. Read the tachymeter figure which the CG 1/5 second hand is indicating. (70 km/hour)








- Measurement of output per hour
 1. Measure the time required to produce one product.
 2. Read the tachymeter figure which the CG $1/5$ second hand is indicating. (120 pieces/hour)

PRECAUTIONS

1. Water resistance

This watch is available in 4 types. Check your watch with reference to the following table.

With the non-water resistant type, take care to avoid occasional splashes of water when washing hands and face or caught in the rain, etc., or exposing it to excessive amounts of perspiration. If the watch should get wet, wipe it thoroughly with a dry cloth.

Type	Condition of use	 Occasional splashes (face washing, rain, etc.)	 Marine sports (swimming, yachting, etc.) work involving constant exposure to water (fishery, agriculture, etc.) exposure to water reflected from high pressure valves, etc.	 Skin diving (without air tanks)	 Scuba diving (with air tanks)	 Operation of the crown when wet or under water
Non water resistant	"WATER RESISTANT" is not written on the back of the watch.	X	X	X	X	X
Water resistant for every day use	"WATER RESISTANT" is written on the back of the watch.	O	X	X	X	X
Reinforced water resistance for everyday life I	Watches marked "WATER RESISTANT" on the case back and "5BAR" on the case back or on the dial.	O	O	X	X	X
Reinforced water resistance for everyday life II	Watches marked "WATER RESISTANT" on the case back and "10BAR, 15BAR or 20BAR" on the case back or on the dial.	O	O	O	X	X

- With a small amount of moisture included inside the watch, the inner surface of the glass may be blurred for a while in case the atmospheric temperature happens to be lower than that inside the watch. The blurred

glass will soon clear. If the blurred glass does not clear, please take your watch to the place of purchase or to ORIENT WATCH SERVICE CENTER.

2. Care of the watch after immersion in seawater

(Applicable only to the watch of reinforced water-resistant type for everyday use)

Wash seawater off the case with fresh water to prevent corrosion. After washing, wipe dry with a soft cloth.



3. Temperature

- Keep your watch away from direct sunlight or heat for hours.
- Do not leave your watch in a very cold location for a long period of time.
- Exposing your watch to temperatures under -5°C or above $+50^{\circ}\text{C}$ for a long period of time may cause the watch to stop or shorten the battery life.

This also may cause the watch to run somewhat fast or slow temporarily. Once placed back on your wrist, the watch will return to its original accuracy.

4. Shock

- Engaging in light sports, such as golf, will not affect your watch, but it should not be worn when engaging in strenuous or contact sports.
- Be careful not to drop or hit the watch against hard objects.



5. Magnetism

- Your watch will not be affected by the magnetism of household electric appliances.
- Take care to avoid placing your watch near objects which produce a strong magnetic field (magnets, magnetic health apparatuses, electric mah-jong tables, etc.).
- Exposing your watch to magnetism may cause it to run fast or slow temporarily. Once kept away from magnetism, the watch will run at its original accuracy. In such a case, correct the date.



6. Vibration

- Exposing your watch to strong vibration by wearing it while riding motorcycles or using jackhammers, chain-saws, etc., may cause it to temporarily run slow.

7. Chemicals, gases, etc.

Take care to avoid bringing your watch into contact with gases, mercury and chemicals (thinners, gasolines, solvents, or materials containing any of these, such as cleaners, glues, paints, medicine, cosmetics, etc.) as this may cause discoloration of the case, band or watch face or damage resin-based parts.

FOR PROLONGED USE AND OPTIMUM PERFORMANCE

1. Care of case and band

- A buildup of dirt or water on the case, band, etc. may result in failure of the watch or irritation to sensitive skin. Wipe the surfaces regularly with a soft cloth to keep the watch clean and ensure prolonged use. Occasionally remove stains by the following procedures:

(Metal band)

Clean each part with a soft toothbrush dipped in soapy water.

(Leather and resin-based bands)

Wipe off stains with a dry, soft cloth.

- The band should be worn loosely to allow room for one finger to be inserted between it and the wrist, to provide ample air circulation.

2. Regular inspection

We suggest that you have your watch checked at the place of purchase or at ORIENT WATCH SERVICE CENTER, every 2 or 3 years, or when the battery is replaced, for battery electrolyte leakage or to be sure that no damage has occurred from water or sweat.

After checking the watch, adjustment and repair may be required.

- * To ensure continued effective water resistance, the packings, glass, crown, etc. may be replaced at this time.

We also recommend replacement of spring bars for the band.

- * Specify the "ORIENT GENUINE PARTS" when replacing the parts.

BATTERY REPLACEMENT

- This watch is provided with a battery life alarm function. If the second hand advances 2 scales at a time, replace the battery within a week.
- * If a dead battery is kept in the watch for a long time, electrolyte leakage from the battery will cause malfunction.
- When a new normal battery is installed, this watch operates for approximately two years.
- When alarm is used once (for 20 seconds) and stop watch for a 1 hour
- The battery in your watch may run down in less than two years after the date of purchase, because it is a monitor battery which is inserted at the factory to check the functions and performance of the watch. The price of



the monitor battery inserted in your watch is not included in the price of the watch. It will therefore be replaced with a new one only at cost even if it runs down within the warranty period.

- * Please specify batteries approved for Orient watches.
- * Please replace the battery at the place of purchase or at Orient Watch Service Center.
- * When a battery is taken out of a watch, it must be kept at a place beyond the reach of an infant. In case it is swallowed by an infant, consult a doctor immediately.

WARRANTY AND SERVICE

Should this product fail in normal use during the warranty period, please bring it together with the warranty card to the place of purchase or to **ORIENT WATCH SERVICE CENTER**.

The contents of warranty are as described in the warranty card.

In case stipulated warranty services cannot be received for reasons of gift, change of address, etc., please contact your nearest service center.

The period of retaining the repair parts for this watch is 7 years as a standard. If the repair parts fail in normal use, they can be repaired during said retaining period. The repair parts are those necessary for maintaining the function of the product and do not include such parts as case, glass, dial, hands and band that are not directly related to the function maintenance. Please note that these parts may be replaced with the substitutes.

As the time required for repairing considerably varies with the conditions of use and there is also a case where the accuracy is not restored to its original condition as a result of repairing, please consult the dealer before making such repairs.

- For more information about this watch or its warranty and service, please contact your nearest service center.