

**ALBA デジタリ**  
取扱説明書 INSTRUCTION

**ALBA W522**

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アルバ製品について、修理その他のご相談は、「お買い上げ店」にご相談ください。  
なお、この取扱説明書のお問い合わせ先は、下記のとおりです。

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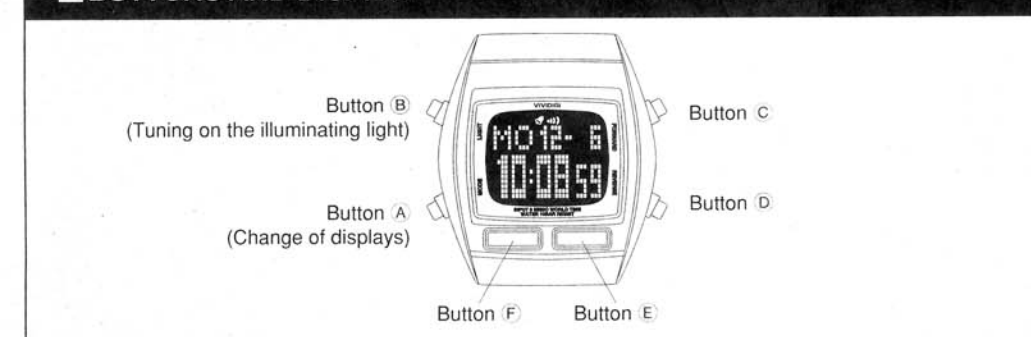
〒730-0002 広島県広島市南区 1-1-10 セイコービル TEL:082-244-1000 FAX:082-244-1000

〒490-0001 静岡県静岡市中央区 5-1-22 (5F) セイコービル TEL:053-221-2508 FAX:053-221-2508

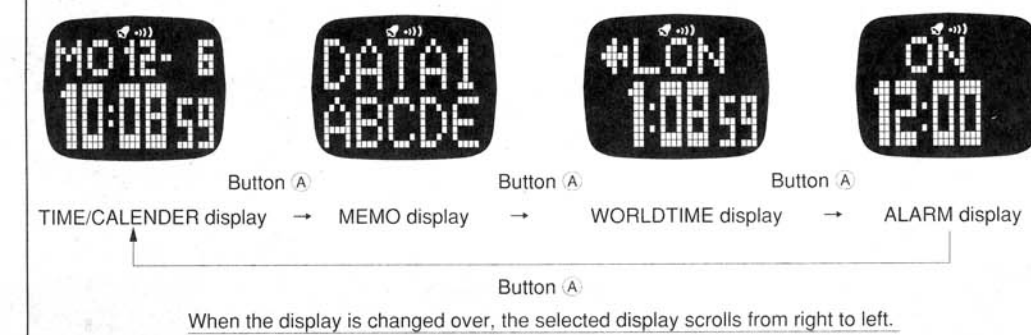
**FEATURES**

- This watch is a multi-function digital watch that features a dot-matrix liquid crystal panel.
- Time/calendar display function:** The time and calendar (hour, minute, seconds, month, date and day of the week of your area) are displayed.
- \*[Hour, Minute] display can be largely by deleting [Second] display.
- Automatic calendar function:** The calendar adjusts automatically for odd and even months. \*Day is to be adjusted independently.
- Memo function:** A memo of up to 40 characters can be stored in each of the eight memo channels.
- World time function:** The time of 24 cities in different time zone throughout the world can be displayed. The daylight saving time (summer time) can also be shown for each city.
- \*Before using the daylight saving time function, be sure to check if the daylight saving time is in effect in the city you have selected. The use of the daylight saving time may change when it is so decided by the country concerned.
- Alarm function:** Two types of alarms are available. The regular alarm rings daily at a designated time. The single-time alarm rings only once at a designated time. The hourly time signal is also provided. The alarm sound can be tested by keeping the button pressed.
- Illuminating light:** By pressing button B, the light illuminates the display for 3 seconds for easy viewing in the dark.
- \*Alarm test system. The alarm sound can be tested by keeping the button pressed.
- \*Please note that the electroluminescent material used for the illuminating light deteriorates with time, losing its luminance gradually. (For details, see "NOTE ON THE ELECTROLUMINESCENT PANEL (FOR ILLUMINATING LIGHT)")
- \*While the illuminating light is used, the watch will give out a slight noise. However, this is not a malfunction.

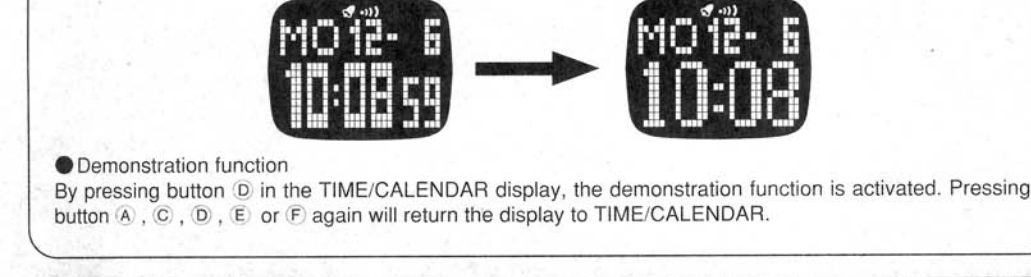
**BUTTONS AND DISPLAY**



- In some models, the display could be different from the picture above.
- With each press of button A, the display changes over in the following order.



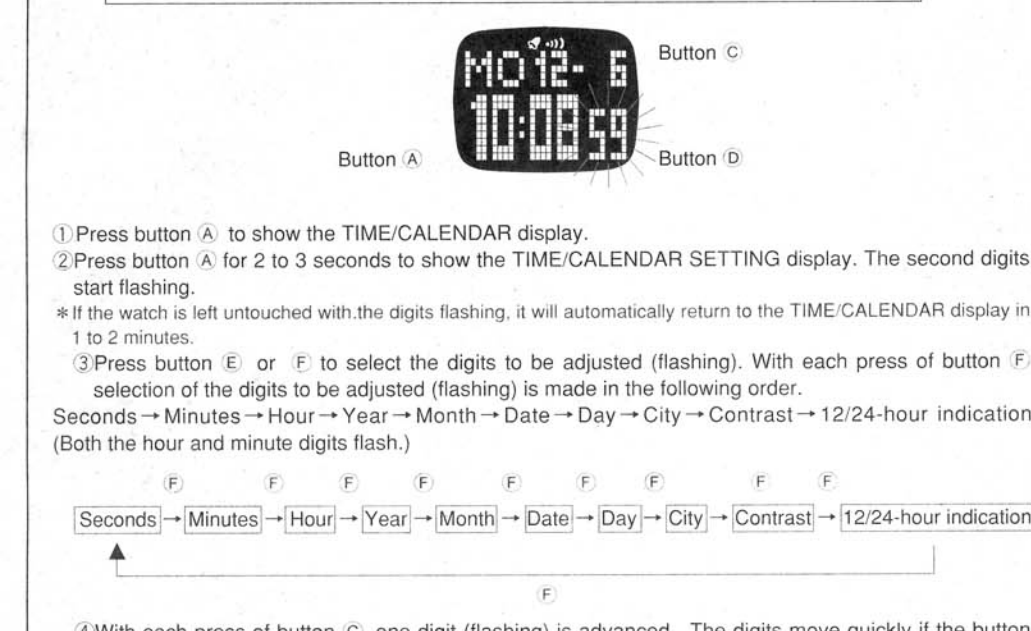
- By pressing button B, the light illuminates the display for 3 seconds for easy viewing in the dark.
- Changeover between the two time display systems
- With each press of button E or F in the TIME/CALENDAR display, the time indication in the lower row of the display changes over alternately between "HOUR, MINUTES and SECONDS" and "HOUR and MINUTES".
- If one time display system is selected in the TIME/CALENDAR display, the time indication in the WORLD TIME and other displays will be set accordingly.



- Demonstration function
- By pressing button D in the TIME/CALENDAR display, the demonstration function is activated. Pressing button A, C, D, E or F again will return the display to TIME/CALENDAR.

**HOW TO SET THE TIME / CALENDER**

The watch is provided with a world time function. By setting the time in the TIME/CALENDAR display, the time of the cities covered in the WORLD TIME display will be adjusted accordingly. When setting the TIME/CALENDAR, therefore, be sure to select the city representing the area for which you wish to set the time/calendar. Otherwise, the world time function will not work properly.



When both the hour and minute digits are flashing, changeover between the 12-hour and 24-hour indications can be made.

In the 12-hour indication, only "PM" mark is displayed and there is no indication for the AM setting. In the 24-hour indication, "24H" is displayed.

\*For the city names and time differences, refer to "TIME DIFFERENCES".

\*After all the adjustments are completed, press button A to return to the TIME/CALENDAR display.

- Seconds setting:** While the second digits are flashing, press button C or D in accordance with a time signal. The seconds are reset to "00". When the seconds count any number between "30" and "59" and button D is pressed, one minute is added, and the second are immediately reset to "00".

**HOW TO USE THE WORLD TIME FUNCTION**

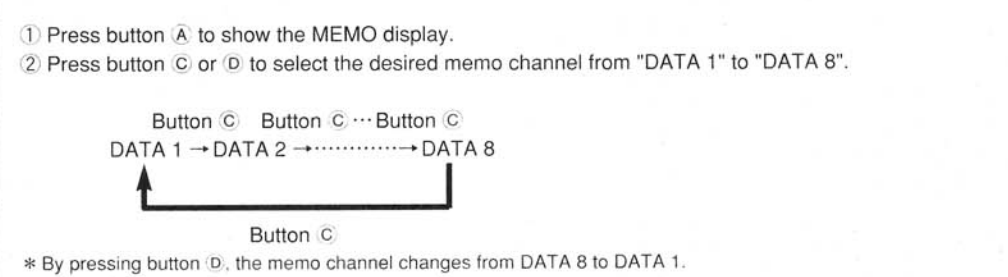
The time of 24 cities in different time zones throughout the world can be displayed. The daylight saving time (summer time) can be set for each city.



- How to use the WORLD TIME FUNCTION
- Press button A to show the WORLD TIME display.

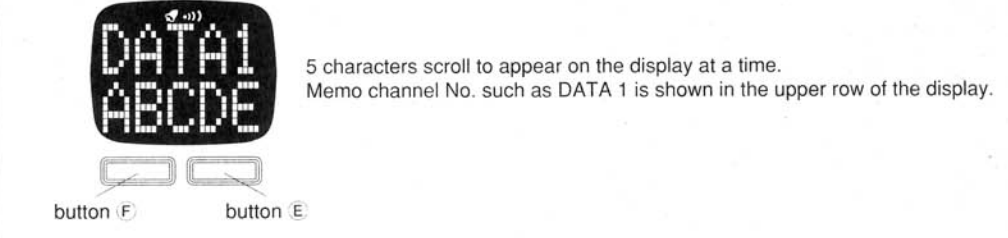
**HOW TO USE THE MEMO FUNCTION**

- A memo of up to 40 characters can be stored in each of the eight memo channels.
- How to show the memos



- Press button A to show the MEMO display.
- Press button C or D to select the desired memo channel from "DATA 1" to "DATA 8".
- By pressing button D, the memo channel changes from DATA 8 to DATA 1.
- Memo channel No.
- Memo: The first 5 characters of the stored memo are displayed. (See "Scroll display of memos".)

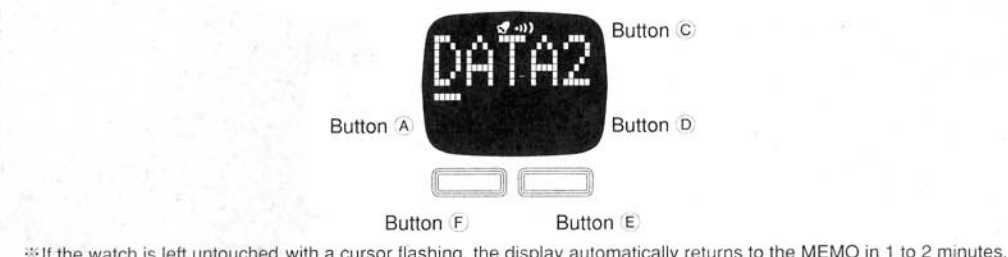
- Scroll display of memos
- The memo stored in a memo channel has more than 6 characters, the display scrolls to show the rest of the characters.
- The display scrolls to show 5 characters at a time. The scrolling display can be stopped or moved back as desired.
- Press button C or D to select the desired memo channel.
- Press button F to start the scroll of the memo display.



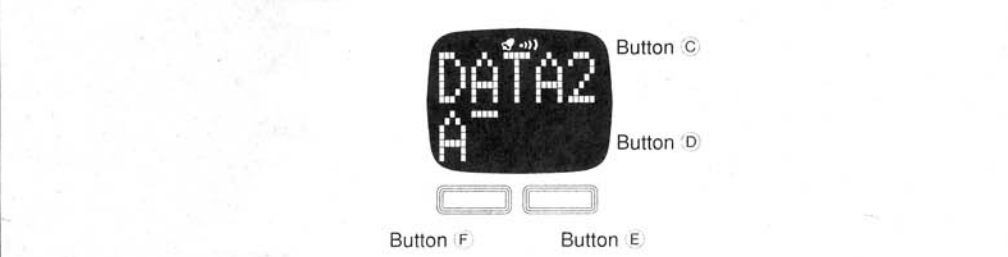
- While the display is scrolling:
- Pressing button F will advance the display to show the next 5 characters, and the scroll stops.
- Pressing button E will move back the display to show the previous 5 characters.

- While the scroll is stopped:
- Pressing button F will restart the scroll of the display.
- Pressing button E will move back the display to show the previous 5 characters.
- As the first 5 characters are shown by pressing button E repeatedly, button E will no longer work to move the display.
- After the last characters are shown, the first 5 characters will appear. To restart the scroll, follow the procedure above starting from the step 2. To show the memo in another memo channel, start from the step 1.

- How to input the memo
- Press button A to show the MEMO display.
- Press button C or D to select the desired memo channel.
- Keep button A pressed for 2 to 3 seconds to show the MEMO INPUT display. A flashing cursor appears on the display.

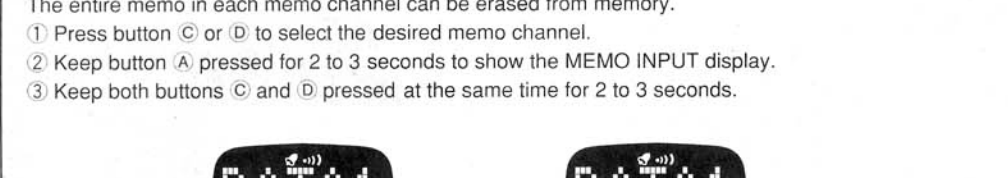


- If the watch is left untouched with a cursor flashing, the display automatically returns to the MEMO in 1 to 2 minutes.
- By pressing button C, the flashing character changes in reverse order. The character changes quickly if the button is kept pressed.
- For the types of characters usable for the MEMO display and the order in which they appear by pressing button C or D, see "Characters for the memo input and the order of appearance".
- When the desired character is shown, press button E to register it.



- As button E is pressed to register the first character, the flashing position moves rightward for the input of the second character.
- Button F can also be used to register the second and the following characters. By doing this, the flashing position moves back.
- To correct the characters already registered, press button E or F in the MEMO INPUT display to move the flashing position so that the character you wish to correct flashes. Then, press button C or D to show the desired character, and press button E or F to register it.
- Please note that you cannot insert a character, or delete one and close up the space.
- After the entire memo has been input, press button A to return to the MEMO display.

- How to erase a memo
- The entire memo in each memo channel can be erased from memory.
- Press button C or D to select the desired memo channel.
- Keep button A pressed for 2 to 3 seconds to show the MEMO INPUT display.
- Keep both buttons C and D pressed at the same time for 2 to 3 seconds.



- The following characters can be used to enter the memo. A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 0 ! ? @ # \$ % ^ & \* ~ / = \ ' " , . : ; < > [ \ ] \_ { | } ~ (Blank space)

**TIME DIFFERENCES**

The abbreviated names of the 24 cities and their time differences from the Greenwich Mean Time are listed in the table below.

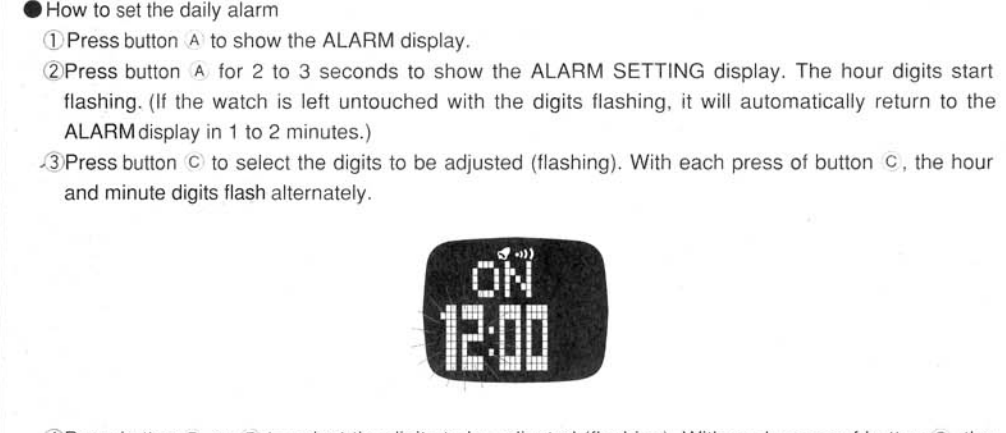
Abbreviated city name	Name of city or area	Time difference from GMT	Use of daylight saving time
LON	London	± 0	○
PAR	Paris	± 0	○
ROM	Rome	+ 1	○
BER	Berlin	± 0	○
IST	Istanbul	+ 2	○
MOW	Moscow	+ 3	○
DXB	Dubai	+ 4	○
KHI	Karachi	+ 5	○
DAC	Dacca	+ 6	○
BKK	Bangkok	+ 7	○
BJS	Beijing	+ 8	○
TYO	Tokyo	+ 9	○
SYD	Sydney	+ 10	○
NOU	Noumea	+ 11	○
WLG	Wellington	+ 12	○
HNL	Honolulu	- 10	○
ANC	Anchorage	- 9	○
LAX	Los Angeles	- 8	○
DEN	Denver	- 7	○
CHI	Chicago	- 6	○
NYO	New York	- 5	○
CCS	Caracas	- 4	○
RIO	Rio de Janeiro	- 3	○
PDL	Azores	- 1	○

\*The time differences and use of daylight saving time may change in some areas or countries when they are so decided by the countries concerned.

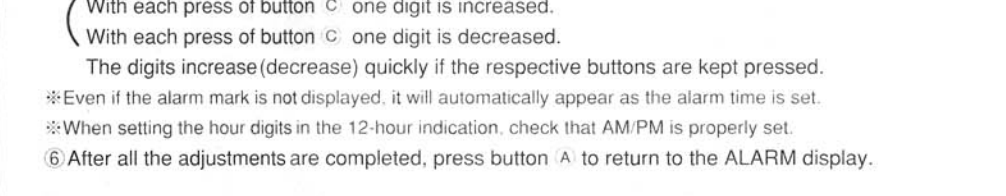


**HOW TO USE THE ALARM FUNCTION**

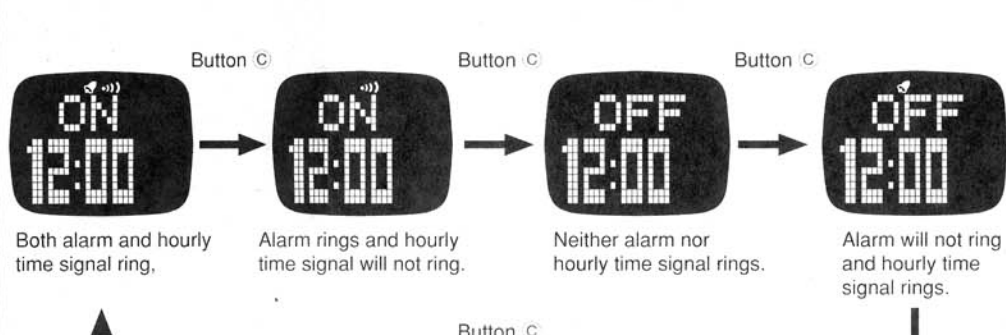
- Two types of alarms are available. The regular alarm rings daily at a designated time. The single-time alarm rings only once at a designated time and is automatically disengaged.
- The regular alarm setting can be made in the ALARM display while the single-time alarm setting in the TIME/CALENDAR display.
- The hourly time signal is also provided. The alarm sound can be tested by keeping the button pressed.
- How to use the daily alarm
- How to set the daily alarm



- Press button C or D to set the flashing digits.
- With each press of button C one digit is increased. With each press of button D one digit is decreased.
- The digits increase(decrease) quickly if the respective buttons are kept pressed.
- Even if the alarm mark is not displayed, it will automatically appear as the alarm time is set.
- When setting the hour digits in the 12-hour indication, check that AM/PM is properly set.
- After all the adjustments are completed, press button A to return to the ALARM display.



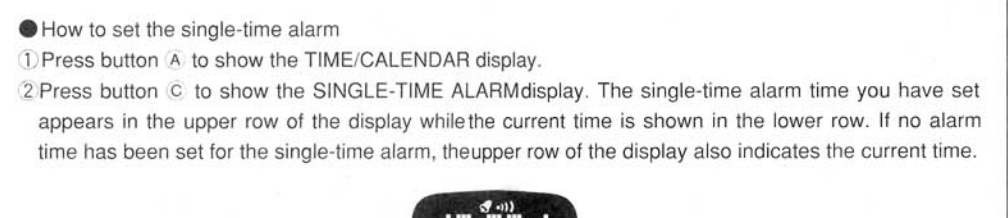
- Engagement/disengagement of the alarm and hourly time signal
- With each press of button C in the ALARM display, the engagement and disengagement of the alarm and hourly time signal are made as follows, as the alarm and hourly time signal marks appear and disappear accordingly.



- To stop the alarm
- At the designated time, the alarm rings for 20 seconds and stops as the display flashes. To stop it manually, press button A, B, C, D, E, or F.
- The alarm can be stopped manually in any display by pressing a button.

- Alarm test
- The alarm can be tested by keeping button C pressed in the ALARM display. The alarm sounds while the button is kept pressed.
- The above procedure will also engage or disengage the alarm and hourly time signal, as their respective marks appear or disappear accordingly. Refer to "Engagement/disengagement of the alarm and hourly time signal" to engage/disengage them as required.

- How to Use the Single-time Alarm
- The single-time alarm is to be set by advancing the current time in one-minute increments. It is suitable, therefore, for setting a time a few hours / minutes ahead of the current time.
- The single-time alarm is automatically disengaged as it rings.
- To ring the alarm daily at a fixed time, the regular alarm serves the purpose.



- Press button E or F to select the desired city.
- Press button A for 2 to 3 seconds. The daylight saving time mark appears, and the time of the selected city is advanced by one hour from the standard time.
- To show the standard time, press button A again for 2 to 3 seconds.
- Before using the daylight saving time function, be sure to check if the daylight saving time is in effect in the city you have selected. The use of the daylight saving time may change when it is so decided by the country concerned.
- If the daylight saving time is set for the city representing your area in the WORLD TIME display, the time in the TIME/CALENDAR display will also be advanced by one hour to show the daylight saving time.

- With each press of button C or D, the alarm time advances or moves back by 1 minute, respectively. Use both buttons to set the desired alarm time.
- By pressing button C or D to set the alarm time, "1-AL" appears on the display to indicate that the single-time alarm is engaged.



- At the designated alarm time, the times shown in the upper and lower rows of the display correspond with each other, and the alarm rings. As it rings, the single-time alarm is automatically disengaged with "1-AL" disappearing from the display, indicating that no alarm time is set for the single-time alarm.

- Press button A to return to the TIME/CALENDAR display.
- After the single-time alarm setting is over, be sure to return the display to the TIME/CALENDAR to prevent the alarm time from being changed with any accidental press of button C or D.
- If the watch is left untouched in the SINGLE-TIME ALARM display, the display automatically returns to the TIME/CALENDAR in 1 to 2 minutes.

- To stop the single-time alarm.
- At the designated time the single-time alarm rings for 20 seconds and stops as the display flashes. It is different from that of the daily alarm. To stop it manually, press button A, B, C, D, E or F.
- The alarm can be stopped manually in any display by pressing a button.

- How to check, correct or cancel the alarm time already set for the single-time alarm
- If you wish to check the alarm time you have set for the single-time alarm;

- If you wish to correct or cancel the set alarm time;
- Follow the procedure below.
- Press button C in the TIME/CALENDAR display to show the SINGLE-TIME ALARM display. The alarm time you have set for the single-time alarm will be shown.
- Press button C or D to correct the alarm time.
- To cancel the alarm time, press both buttons C and D at the same time, or press button C or D to adjust the alarm time so that it corresponds with the current time.
- As the set alarm time is canceled, "1-AL" disappears from the display, indicating that the alarm is disengaged and will not ring.

**SPECIFICATIONS**

- Frequency of crystal oscillator ..... 32,768Hz (Hz=Hertz=Cycles per second)
- Loss/gain ..... Average monthly rate: ± 30 seconds (in temperatures of between 5°C and 35°C on your wrist)
- Operational temperature range ..... -5°C ~ +50°C (Desirable temperature range or use 0°C ~ +50°C)
- Display medium ..... Nematic Liquid Crystal, FEM (Field Effect Mode)
- Battery ..... Lithium battery SB-T14, 1 piece
- Battery life ..... Approx. 2 years
- Illuminating light ..... Electroluminescent panel
- IC (Integrated Circuit) ..... C-MOS-IC, 1 piece
- The above specifications are subject to change without prior notice, for product improvement.

**NOTE ON THE LIQUID CRYSTAL PANEL**

The normal life expectancy for the liquid crystal panel of the watch is approximately 5 years. After that, it may decrease in contrast, becoming difficult to read. Please contact the retailer from whom the watch was purchased to have the liquid crystal panel replaced with a new one. It will be made at cost.

**NOTE ON THE ELECTROLUMINESCENT PANEL (FOR ILLUMINATING LIGHT)**

The electroluminescent panel for illumination of the display loses its luminance as the battery voltage gets lowered. Also, its luminance level decreases gradually with use.

\*After 120 hours of use, the luminance level decreases by about half. When the illuminating light becomes dim, replace the battery with a new one. If the illuminating light remains dim after the battery is replaced, have the electroluminescent panel replaced with a new one by the retailer from whom the watch was purchased. It will be made at cost.

**VIVIDIGI**

- "VIVIDIGI" is a newly developed liquid crystal panel that has various color combinations of segments and background and lights up in various manners, providing wide varieties of displays.
- Features
- (1) "VIVIDIGI" has high light-transmissivity and lightreflectance to give a vivid and clear display.
- (2) The segments for digits and the entire background of the display can be illuminated in various colors.
- (3) Either the whole display or only the segments are illuminated depending on models.
- \*Above features of "VIVIDIGI" are embodied differently from model to model.

**CARE OF YOUR WATCH**

**CAUTION**

**WATER RESISTANCE**

- Check the dial or case back of your watch for the water resistant quality, and then see the table below.
- Do not turn or pull out the crown when the watch is wet, as water may get inside the watch.

Designed and manufactured to withstand the water usually encountered in a daily living such as bathing and showering.	Designed and manufactured for swimming and kitchen work.	Shallow diving with but always wearing appropriate and bathing.	General diving using scuba or snorkeling.	Button operation when the watch is wet.
×	×	×	×	×
○	×	×	×	×
○	○	×	×	○
○	○	○	×	○

"WATER RESISTANT" is not inscribed on the back of your watch case.

"WATER RESISTANT" is inscribed on the back of your watch case.

"WATER RESISTANT 5 TO 15 BAR," "WATER RESISTANT" and marks inscribed on the back of your watch case.

5 BAR

10 - 15 BAR

20 BAR

- ABOUT BATHING**
- Your watch can be worn while bathing if it is equipped with water resistance over 10 bar.
- In that case, please note the following carefully.
  - Please do not operate your watch (Crown operation, Button operation etc.) When it is wet with soap or shampoo, it sometimes causes a reduction in the water proofing.
  - When the watch gets warm due to warm water, the watch could gain or lose time to some degree. However, the watch will return to its usual accuracy at normal temperatures.

- WARNING**
- If your watch is 5 bar water resistant, do not use it in water.
- If your watch is 10 or 20 bar water resistant, do not use it in any type of diving including skin diving.
- If your watch is 10 or 20 bar water resistant, do not use it in saturation diving or scuba diving.

**PLACES TO KEEP YOUR WATCH**

- If the watch is left in a temperature below -5°C or above +50°C for a long time it may function improperly or stop operating.
- If the watch is left in a temperature below -5°C or above +50°C for a long time it will lose or gain slightly, but it will regain high time accuracy when it returns to normal temperature.
- Do not leave the watch in a place where there is strong vibration or subjected to strong magnetism or static electricity.
- Do not leave the watch in a hot spring, or do not keep it in a drawer having insecticides inside.
- Do not expose the watch to gases or chemicals. (Ex.: Organic solvents such as benzene and thinner, gasoline, nail polish, cosmetic spray, detergent, adhesives, mercury, and sodium antiseptic solution.)

- CAUTION**
- CARE OF YOUR WATCH**
- The case and bracelet touch the skin directly just as underwear. If they are left dirty, the edge of a sleeve may be stained with rust of those who have a delicate skin may have a rash.
- After removing the watch from your wrist, wipe perspiration or moisture with a soft cloth. This will prevent the watch from being soiled, adding to the life of the gasket.

- METAL BRACELET**
- Clean the watch bracelet with a soft toothbrush dipped in water or soapy water. If your watch is not the water-resistant, be careful not to get the case wet when cleaning.
- LEATHER BAND**
- When removing moisture from a leather band, do not rub the band with the cloth as this may discolor it or reduce its gloss. Be sure to blot up the moisture using a soft dry cloth.
- SOFT PLASTIC BRACELET**
- If your watch has a soft plastic band such as urethane band, do not leave the watch under a fluorescent lamp or direct sunlight for a long time, or do not leave the band soiled. Otherwise, the band may be discolored, hardened or broken.
- Also, do not keep the watch in a place where it is exposed to high humidity, or do not leave the band wet with perspiration or water. Otherwise, the band may be discolored in a very short time.
- When the band is soiled, rinse it in soapy water. Do not use solvents for cleaning as some solvents may deteriorate the band.
- If your watch has a semitransparent urethane band, which is easily discolored, special care should be taken to keep it clean. Depending on the condition of use, the semitransparent band may be discolored after several months of use.
- If your watch is not water-resistant, be careful not to get wet with water or sweat. When it gets wet with water or sweat, wipe it thoroughly dry with a hydroscopic cloth.
- If your watch is 5, 10 or 20 bar water resistant, rinse it in a bowl of fresh water after used in seawater. Do not use chemicals to wash it.
- If your watch has a rotating bezel, clean the bezel regularly. Otherwise, dust will gather under it, making the rotation difficult.
- RASH AND ALLERGY**
- Adjust the bracelet or band so that there will be a little clearance between the bracelet or band and your wrist to avoid accumulation of perspiration.
- If you are constitutionally predisposed to rash, the band may cause you to develop a rash or an itch depending on your physical condition.
- The possible causes of the rash are as follows:
  - Allergy to metals or leathers.
  - Rust, dust or perspiration on the watch or band.
  - If you develop any skin reactions, take off the watch and consult a doctor immediately.

**PRECAUTIONS ON WEARING YOUR WATCH**

- Take utmost care in the following cases:
  - When clasping and unclasping the watch, you may damage your nail, depending on the type of clasp used with the band.
  - In case you tumble and fall or bump into others with the watch worn on your wrist, you may be injured by the reason of the fact that you wear the watch.
  - When you make contact with children, especially with infants, they may get injured or develop a rash caused by allergy.

- CAUTION**
- If your watch is of the lob or pendant type, the strap or chain attached to the watch may damage your clothes, or injure the hand, neck, or other parts of your body.

- PERIODIC CHECK**
- We suggest that you have your watch checked by ALBA DEALER every 2 or 3 years or when the battery is replaced for oil condition, battery electrolyte leakage or damage due to water or sweat. After checking the watch, adjustment and repair may be required.
- When the replacing the parts or battery, please specify "ALBA GENUINE PARTS". If an old battery is kept in the watch for a long time, electrolyte leakage from the battery may damage the module.
- Be sure to have the gasket and push-pin replaced with new ones by the ALBA DEALER when checking the watch or the battery is replaced.

**REMARKS ON THE BATTERY**

- Notes on the battery**
- (1) Battery life
- When a new normal battery is installed, this watch operates for approximately 2 years.
- If the alarm and/or timer is used for more than 1 second a day and/or the illuminating light more than once a day, the battery life may be less than the specified period.
- (2) Monitor battery
- The battery in your watch may run down in less than two years after the date of purchase, as it is a monitor battery which is inserted at the factory to check the function and performance of the watch.
- (3) Battery change
- For battery replacement, be sure to have the battery replaced with a new one at the retailer from whom the watch was purchased or an AUTHORIZED ALBA DEALER, and request the battery for exclusive use with the ALBA watches.
- If the old battery is left in the water for a long time, a malfunction may be caused due to battery leakage, etc. Have it replaced with a new one as soon as possible.
- Battery replacement is charged even if it runs down within the guarantee period.
- Once the case back is opened for battery replacement or other purposes, the original water-resistant quality designed for the watch may deteriorate if it is closed. When you have the battery replaced with a new one, also request the water resistance test pertaining to the water resistant quality of your watch. If your watch has 10-bar or higher water resistant quality, be sure to have such test performed on the watch every time the battery is replaced.

- WARNING**
- Do not remove the battery from the watch.
- If it is necessary to take out the battery, keep it out of the reach of children.
- If the child swallows it, consult a doctor immediately as it will adversely affect the health of the child.
- CAUTION**
- Never short-circuit, tamper with or heat the battery, or never expose it to fire as it may explode, generate and intense heat or catch fire.
- The battery in your watch is not rechargeable. Never attempt to recharge it, as this may cause battery leakage or damage to the battery.
- If the watch is left in a temperature below 5°C or above 35°C for a long time, it may cause the battery life to be shortened. Also, the liquid crystal panel may decrease in contrast, and the electroluminescent light may illuminate for a shorter period of time.

**NECESSARY PROCEDURE AFTER BATTERY CHAGE (RESETTING THE IC)**

- After the battery is replaced with a new one, or when an abnormal display (broken digits, etc.) appears, follow the procedure below. The built-in IC will be reset and the watch will resume normal operation.
- How to reset the IC
- After the battery is replaced with a new one, be sure to press button A, B, C and D at the same time for 2 to 3 seconds. The display will become black, and then, "12:00" or SA 1 JAN LON" will be displayed. (Contrast level is 7)
- After setting the IC
- Before using the watch, adjust the following display in the order below by referring to the corresponding sections of this instruction manual.
  - 1. Time/calendar
  - 2. Alarm time

**NOTE ON THE REPLACEMENT PARTS**

- ALBA makes it a policy to usually keep a stock of spare parts for its watches for 7 years. In principle, your watch can be reconditioned within this period if used normally. (Replacement parts are those which are essential to maintaining the functional integrity of the watch.)
- The number of years that a watch is considered repairable may vary greatly depending on the condition under which it was used, and normal accuracy may not be achieved in some cases. We recommend, therefore, that you consult the retailer from whom the watch was purchased, when having them repair your watch.
- The case, dial, hands, glass, bracelet, or parts thereof may be replaced with substitutes if the originals are not available.