

Instruction Manual



LORUS

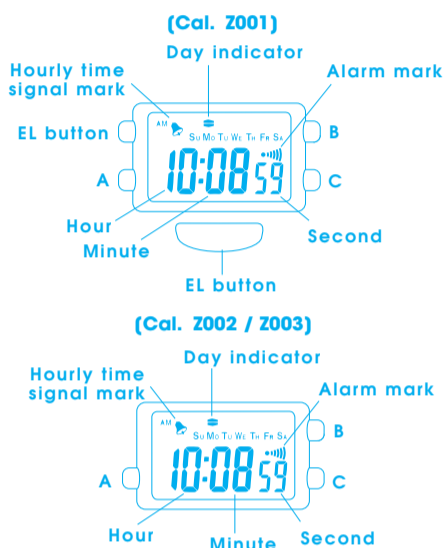
CAL. Z001, Z002, Z003 (R23 SERIES)



CHARACTERISTICS

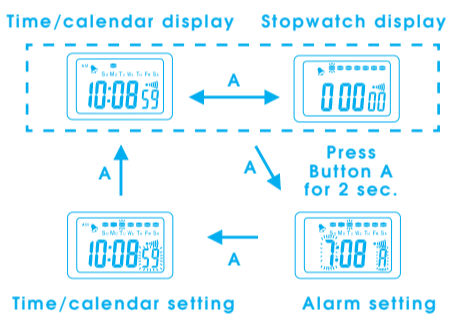
- Time/calendar display:** Hour, minute, second, date, day of the week and month.
- Automatic calendar adjustment:** Calendar adjusts automatically for odd and even months except February of leap years.
- Time indication:** Changeover between 12-hour and 24-hour indications is possible.
- Stopwatch:** 24-hour stopwatch with 1/100 second readout up to 40 minutes and with 1 second readout after the first 40 minutes. Split time measurement is available.
- Alarm:** The alarm rings at the designated hour and minute with "beep, beep" for 30 seconds.
- Hourly time signal:** Can be set to ring every hour on the hour with a single "beep".
- Illuminating light (for Cal. Z001):** The light evenly illuminates the display in the dark.

DISPLAY AND BUTTON OPERATION



Button A:

- Selection of the display. The selection is made in the following order:



Button B:

- Calendar (month, date and day) display in the time/calendar display.
- Start/stop in the stopwatch function.
- Selection of the digits to be adjusted in the alarm setting function and the time/calendar setting function.

Button C:

- Alarm display in the time/calendar display.
- Split/Split release/Reset in the stopwatch function.
- Setting the digits in the alarm setting function and the time/calendar setting function.
- Stopping the alarm in any display.

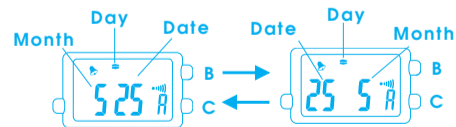
Button B while keeping Button C pressed: Engagement and disengagement of the alarm and the hourly time signal.

Button C while keeping Button B pressed: Changeover of the calendar (month and date) display.

Buttons B & C: Alarm test in the time/calendar display.

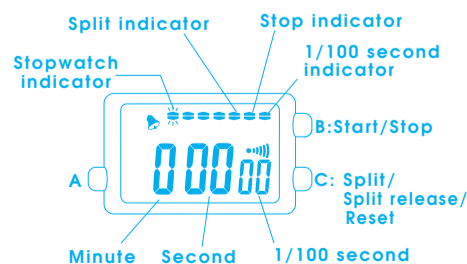
HOW TO SET THE DUAL CALENDAR DISPLAY

- Press Button B to show the calendar (month, date, and day) display. The calendar display is shown while Button B is kept pressed.
- The month and the date change places with each other with each press of Button C while keeping Button B pressed.



* In the 12-hour indication, "A" (AM)/ "P" (PM) mark is displayed. In the 24-hour indication, there is no indication.

HOW TO USE THE STOPWATCH

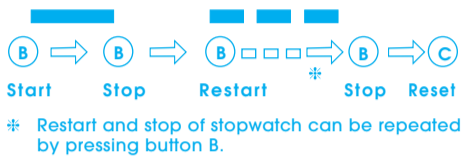


- Press Button A to show the stopwatch display. (The stopwatch indicator starts flashing.) The stopwatch can measure up to 24 hours and is displayed in minutes, seconds, and 1/100 seconds up to 40 minutes, and in hours, minutes, and seconds after the first 40 minutes. (The 1/100 second indicator

flashes during the first 40 minutes.) When the measurement is over 24 hours, the stopwatch will be reset to "0:00:00" and start counting again.

- Reset the digits to "0:00:00" before using the stopwatch. When the split and the stopwatch indicators are flashing, press Button B to check that the stop indicator starts flashing, and then press Button C twice to reset the digits to zero.
 - When measuring a long period of time, return the stopwatch to the time/calendar display after the stopwatch starts to prevent any possible mistaken operation.
- * When Button B or C is pressed in the stopwatch display, a single "beep" sounds to confirm the operation.

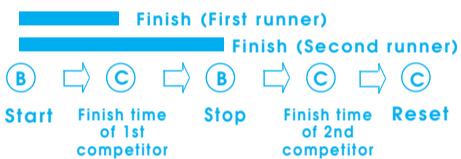
Accumulated elapsed time measurement



Split time measurement

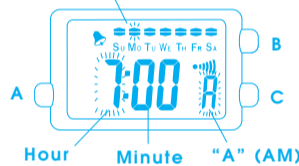


Measurement between two competitors

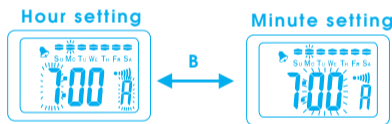


HOW TO SET THE ALARM

Alarm set indicator



- Press Button A for 2 seconds to activate the alarm setting function. (The alarm set indicator starts flashing.)
- Press Button B to activate the "Hour" or "Minute" setting. The display changes in the following order with each press of Button B.

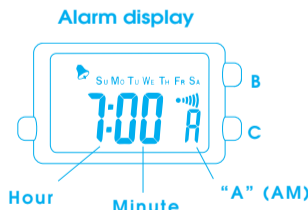


- One digit (flashing) is advanced with each press of Button C. The digits are advanced quickly by keeping Button C pressed.
- After all the adjustments are completed, press Button A to return to the time/calendar display. (The display returns directly to the time/calendar display and not to the time/calendar setting.)

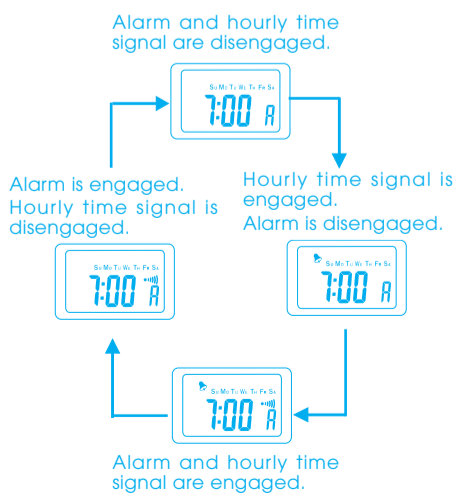
Note: When setting the hour digits, be sure to check that the "A" (AM)/ "P" (PM) mark is correctly set.

HOW TO ENGAGE AND DISENGAGE THE ALARM AND THE HOURLY TIME SIGNAL

- Press Button C in the time/calendar display to show the alarm display. The alarm display is shown while Button C is kept pressed.



- With each press of Button B while keeping Button C pressed, the engagement and disengagement of the alarm and the hourly time signal are made as follows:



■ HOW TO STOP THE ALARM

The alarm rings at the designated time for 30 seconds and stops. However, the alarm can be stopped manually by pressing Button C in any display.

■ ALARM TEST

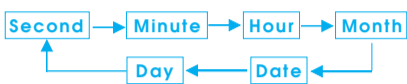
The alarm can be tested with a beeping sound by pressing Buttons B and C at the same time in the time/calendar display.

■ HOW TO SET THE TIME/CALENDAR

Time/calendar setting indicator



- Press Button A to activate the time/calendar setting function. (The time/calendar setting indicator and the second digits start flashing.)
- Selection of the digits to be adjusted (flashing) is made in the following order by pressing Button B.



- One digit (flashing) is advanced with each press of Button C. (The digits except seconds are advanced quickly by keeping Button C pressed.)

• Second setting

Press Button C in accordance with a time signal. The seconds are reset to "00" and start immediately.

When the seconds count any number from "30" to "59" and Button C is pressed, one minute is added and the seconds are immediately reset to "00".

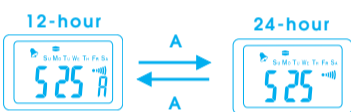
- After all the adjustments are completed, press Button A to return to the time/calendar display.

Note: When setting the hour digits, be sure to check that the "A" (AM)/"P" (PM) mark is correctly set.

■ HOW TO CHANGE OVER THE 12-HOUR AND 24-HOUR INDICATIONS

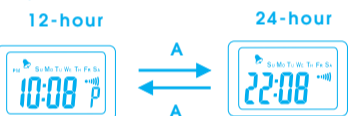
In the calendar or the alarm display, each press of Button A changes over the time indication display from the 12-hour to the 24-hour and vice versa.

• Changeover in the calendar display



(Keeping Button B pressed)

• Changeover in the alarm display



(Keeping Button C pressed)

- * When the "A" (AM)/"P" (PM) mark disappears, the calendar or the alarm display is shown in the 24-hour indication.

■ LUMIBRITE WATCH

- * If your watch is a LORUS LUMIBRITE watch, it has following features.

LORUS LUMIBRITE watches absorb and store light energy from natural and artificial light sources and emit light in the dark. They are made of environmentally friendly material, and therefore, are harmless to human beings and the environment.

- With a full charge, LORUS LUMIBRITE watches glow in the dark hours longer than conventional luminous watches of this type. If exposed to a light of more than 500 lux (i.e., the brightness of a typical office) for approximately 10 minutes, or direct sunlight for 2 minutes, they will glow for hours.
- Since LORUS LUMIBRITE watches emit the light they store, the brightness will decrease gradually over time. The length of time they will glow may also differ slightly depending on such factors as the brightness of and distance from the light source used to charge the watch.

■ ILLUMINATING LIGHT (for Cal. 2001)

When EL button is pressed and released in the time/calendar or stopwatch display, or in the alarm setting or time/calendar setting function, the electroluminescent light evenly illuminates the display for 4 seconds for easy viewing in the dark.



Notes:

- The watch works with one battery. When the light begins to lose its luminance, this is an indication that the battery is depleted. We recommend that you change the battery before the watch itself stops.
- If the light is used continuously for a long time, the battery life may be less than the specified period.

■ BATTERY CHANGE

The miniature battery which powers your watch should last as individually specified below. However, because it is inserted at the factory, the actual life of the battery once in your possession may be less than the specified period. Be sure to replace the battery to prevent any possible malfunction as soon as it runs down.

CAL. NO.	BATTERY	BATTERY LIFE (Approx.)
Z001	CR2032, 1 piece	7.5 years
Z002	CR2016, 1 piece	4.5 years
Z003	CR1220, 1 piece	2 years

Note: If the alarm is used for more than 30 seconds a day (and/or the illuminating

light for more than 4 seconds a day for Cal. 2001), the battery life may be less than the specified period.



CAUTION

To replace the batteries, we recommend taking the watch to a local watch repair shop.

Do not expose the old battery to fire or recharge it.

■ CARE OF YOUR LORUS WATCH



WARNING

Please note that there is a risk of serious consequences such as severe injury if the following safety regulations are not strictly observed.

- **Immediately stop wearing the watch in following cases.**
 - If the watch body or band becomes edged by corrosion etc.
 - If the pins protrude from the band.
- * Immediately consult the retailer from whom the watch was purchased or LORUS SERVICE NETWORK.
- **Keep the watch and accessories out of the reach of babies and children.**
 - Care should be taken to prevent a baby or a child accidentally swallowing the accessories.
 - If a baby or child swallows the battery or accessories, immediately consult a doctor, as it will be harmful to the health of the baby or child.
 - DEATH or serious injury can occur if ingested.
 - A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.

• WATER RESISTANT

Condition of use	Accidental contact with water, such as splashes and rain	Swimming and taking a shower	Skin diving	Scuba diving
Indication on the dial/case back				
No Indication	NO	NO	NO	NO
WATER RESISTANT	YES	NO	NO	NO
WATER RESISTANT (50M/5 BAR)	YES	YES	NO	NO
WATER RESISTANT (100M/10 BAR or above)	YES	YES	YES	NO

- * If your watch is 200 M/20 BAR, 100 M/10 BAR or 50 M/5 BAR water resistant, it is so indicated on the dial/case back.



CAUTION

- Do not operate the buttons when the watch is wet.
- If the watch is exposed to salt water, rinse it in fresh water and then wipe it thoroughly dry.
- Should you find any water or condensation inside the watch, immediately have it checked. Water can corrode electric parts inside the case.



CAUTION

This watch contains precise electronic components. Never attempt to open the case or remove the back cover.

• LEATHER BAND

- A leather band is susceptible to discoloration and deterioration from moisture, sweat and direct sunlight.
- Wipe off moisture and sweat as soon as possible by gently blotting them up with a dry cloth.
- Do not expose the watch to direct sunlight for a long time.
- Please take care when wearing a watch with light-colored band, as dirt is likely to show up.
- Refrain from wearing a leather band watch other than Aqua Free bands while bathing, swimming, and when working with water even if the watch itself is water-resistant enforced for daily use (10-BAR/20-BAR water resistant).

• PLASTIC BAND

- As for material characteristics, the band is easily dirtied, and may be stained and discolored. Wipe off dirt with a wet cloth or cleaning tissue.
- Unlike bands of other materials, cracks may result in the band being cut. Take care not to damage the band with an edged tool.

• ALLERGIC REACTION

Because the case and band touch the skin directly, it is important to clean them regularly. If not, shirt sleeves may be stained and those with delicate skin may develop a rash. Please wear the watch with some play to avoid any possible allergic reaction. If you develop a rash on your wrist, stop wearing and consult a physician.

• MAGNETISM

Your watch will be adversely affected by strong magnetism. Keep it away from close contact with magnetic objects.

• SHOCKS AND VIBRATIONS

Your watch may be worn for normal sports activities, but be careful not to drop it or hit it on hard surfaces.

• TEMPERATURE

Your watch is preadjusted so that constant accuracy may be insured at normal temperature.

• CLEANING

Use only a soft cloth and clean water for cleaning your watch. Never use chemicals, as the waterproof gasket will corrode.

■ SERVICE

When your LORUS watch requires repair or servicing, please see the enclosed WARRANTY/GUARANTEE.

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