

SEIKO セイコースポーツ ストップウォッチ 取扱説明書 INSTRUCTION S034

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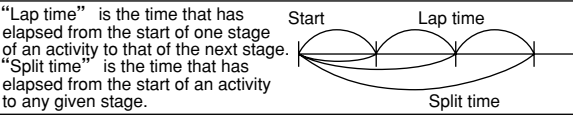
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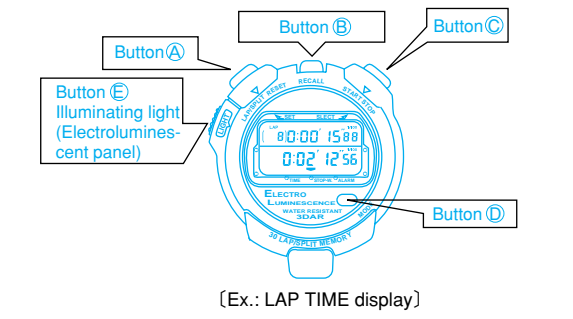
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FEATURES

- The SEIKO Quartz Cal. S034 is a digital stopwatch that features a stopwatch and alarm functions. For everyday use, time/calendar function is also provided. In addition, the stopwatch is equipped with an electroluminescent panel which evenly illuminates the display for easy viewing in the dark.
- STOPWATCH**
 - It measures up to 10 hours in 1/100 second increments.
 - Two separate stopwatch displays are available for lap time and split time measurement, and they can be selected whenever necessary.
 - The first 30 sets of lap times and split times are automatically stored in memory, and they can be recalled either during or after the measurement.
- ALARM**
 - The alarm can be set to ring at a designated time on a 24-hour basis.
 - The alarm can be engaged and disengaged alternately with a press of a button.
- TIME/CALENDAR DISPLAY**
 - Month, date, day, hour, minutes and seconds are displayed.
 - The calendar automatically adjusts for odd and even months including February of leap years from 1995 to 2044.
- ILLUMINATING LIGHT (ELECTROLUMINESCENT PANEL)**
 - A certain material emits light by applying voltage. This phenomenon is called "electroluminescence", and the stopwatch illuminates the display using it.
 - With a press of the button in any mode, the display is illuminated for 3 seconds. It remains illuminated if the button is kept pressed. (If the alarm starts ringing while the illuminating light is turned on, the light will be turned off automatically.)
 - Please note that the electroluminescent material deteriorates with time, losing its luminance gradually. (For details, see REPLACEMENT OF THE ELECTROLUMINESCENT PANEL (FOR ILLUMINATING LIGHT))



BUTTONS AND CHANGEOVER OF DISPLAYS



STOPWATCH Button operation

- Button A**
 - LAP TIME/SPLIT TIME display
 - LAP/SPLIT
 - Reset
 - MEMORY RECALL
 - Selection of the stored data (from the newest to the oldest data)
- Button B**
 - Activation/deactivation of the memory recall function
- Button C**
 - LAP TIME/SPLIT TIME display
 - START/STOP
 - MEMORY RECALL display
 - Selection of the stored data (from the newest data)
- Button E**
 - Illuminating light (Electroluminescent panel)
 - "SPLIT" mark
 - Split time (2:03:36.88)
 - Accumulated elapsed time (2:05:28'00)
 - STOPWATCH display indicator
- Button D**
 - Changeover of displays

(Ex.: SPLIT TIME display)

* While the alarm is ringing, pressing any of the buttons will not control the stopwatch but only stop the alarm.
* While the illuminating light is turned on, the stopwatch may give out a slight sound, but this is not a malfunction.

Standard measurement

- Press **D** to show the LAP TIME or SPLIT TIME display. Ex.) 100m race. Press the buttons in the following order: **C** → **C** → **A** (A confirmation beep sounds.)

Accumulated elapsed time measurement

- Press **D** to show the LAP TIME or SPLIT TIME display. Ex.) Basketball game. Press the buttons in the following order: **C** → **C** → **C** → **A** (A confirmation beep sounds.)

Lap time/split time measurement

- Press **D** to show the LAP TIME or SPLIT TIME display. The button operation of the lap time/split time measurement is explained here with the lap time measurement taken as an example. To measure split times, press the buttons in the same manner.
- "LAP" mark is shown in the LAP TIME display, and "SPLIT" mark is shown in the SPLIT TIME display.
- Up to 99 sets of lap and split times can be displayed, and the first 30 sets of lap times and split times measured are automatically stored in memory.

Ex.) Marathon race. Press the buttons in the following order: **C** → **A** → **A** → **A** → **C** → **A** (A confirmation beep sounds.)

How to use the memory recall function

The first 30 sets of lap and split times measured are automatically stored in memory. To recall the stored measurements, follow the procedure below.

(Memory recall after measurement)
Press **B** in the LAP TIME or SPLIT TIME display to activate the memory recall function. The newest data in memory (lap/split No.1) will be displayed.
Ex.: When more than 30 sets of lap and split times have been measured.

(Memory recall during measurement)
Press **B** in the LAP TIME or SPLIT TIME display to activate the memory recall function. The newest data in memory will be displayed. Lap/split No. 30 will be displayed if more than 30 sets of lap and split times have been measured.
Ex.: When 10 sets of lap and split times have been measured.

With each press of **A**, the stored data are recalled successively in the following order.
Lap/split No.: (1) · (2) · (3) ... (30)

With each press of **C**, the stored data are recalled successively in the following order.
Lap/split No.: (1) · (30) · (29) ... (2)

The digits move quickly if button **C** or **A** is kept depressed.

Press **B** to return to the LAP TIME or SPLIT TIME display. The measurement is in progress and lap time and split time measurement can be continued.

If the stopwatch is left untouched with the measurement in memory displayed, the display will automatically return to the measurement in progress in 30 seconds.

ALARM Button operation

- Button A**
 - Setting the digits to be adjusted
- Button B**
 - Activation/deactivation of the alarm setting function
- Button C**
 - Selection of the digits to be adjusted
 - Engagement/disengagement of the alarm
- Button D**
 - Changeover of the display

Current time (Hour and Minute and second)

"A" / "P" (Displayed in the 12-hour indication)

Designated alarm time (Ex.: 12:00 AM)

Alarm mark

Alarm display mark

* A flashing STOPWATCH display mark indicates that the stopwatch is measuring.

Daily alarm: It can be set to ring at a designated time on a 24-hour basis.

How to set the alarm

- Press **D** to show the alarm display.

(1) Press button **B** for 2 to 3 seconds to show the alarm setting display. The "on" / "P" mark disappears and the hour digits (and "A" / "P" mark if the time is set in the 12-hour indication) start flashing.

(2) Press button **C** to select the digits to be adjusted (flashing).

(3) Press button **A** to set the digits. One digit is advanced with each press of the button.

(4) Press button **B** to return to the alarm display. The alarm mark and "on" mark are automatically return to the alarm display in 3 minutes.

* The digits move quickly by keeping button "A" pressed.

Alarm mark

"on" (alarm engagement) mark

* When setting the hour digits in the 12-hour indication, check that AM/PM is properly set.
* When the time function is displayed in the 24-hour indication, the alarm is also displayed in the 24-hour indication.

How to use the alarm

- Engagement/disengagement of the alarm

* With each press of button **C** in the alarm display, the alarm is engaged and disengaged alternately.

The alarm rings at the designated time for 20 seconds and stop. To stop it manually, press button **A**, **B**, **C**, **D** or **E**.

* While the hourly time signal mark is displayed, the hourly time signal rings every hour on the hour and the confirmation sound beeps with each press of the buttons. When the mark is not displayed, neither of them rings.
* If the hourly time signal coincides with the alarm time, the hourly time signal will not ring.

REPLACEMENT OF 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 time.

For example, the luminance level decreases by half after the total time of use of about 500 hours.

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 stopwatch was purchased, or an AUTHORIZED SEIKO DEALER. It will be replaced at cost.

TIME/CALENDAR Button operations

- Button A**
 - TIME/CALENDAR SETTING display
 - Setting the digits
- Button B**
 - Activation/deactivation of the TIME/CALENDAR setting function
- Button C**
 - TIME/CALENDAR setting display
 - Selection of the digits to be adjusted
 - TIME/CALENDAR display
 - Engagement/disengagement of the hourly time signal and turning on/off of the confirmation sound for button operation
- Button D**
 - Changeover of displays

Month

Date

Minute

Hour

Second

Day

AM mark

TIME/CALENDAR display indicator

* About engagement/disengagement of the hourly time signal and turning on/off of the confirmation sound, refer to "How to use the alarm".
* Flashing STOPWATCH display indicator indicates that the measurement is in progress in the function.

Time/calendar setting

- Press **D** to show the TIME/CALENDAR display. (Activation of the TIME/CALENDAR setting function)

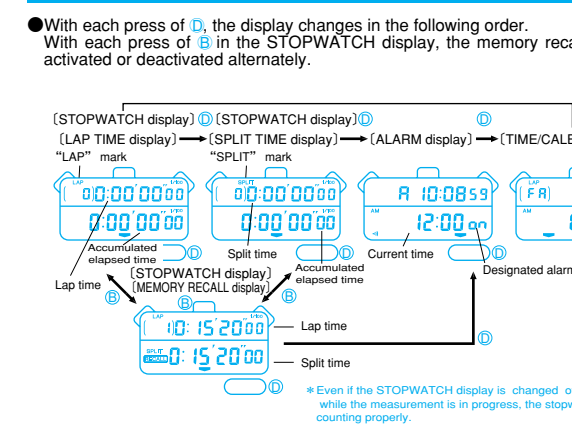
CARE OF YOUR WATCH

- WATER RESISTANT**
 - Designed and manufactured to withstand accidental contact with water such as splashes and rain.
- ANTI-SHOCK**
 - Your stopwatch can be worn while participating in most sports.
 - But be careful not to drop or hit the stopwatch against hard objects or otherwise subject the stopwatch to violent shocks.
- TEMPERATURE**
 - Your stopwatch is designed to work with stable accuracy between normal temperature range of 5°C and 35°C.
 - Do not leave your stopwatch in direct sunlight or very high temperatures for a long time.
 - The display may become black, but this condition will be corrected when the stopwatch returns to normal temperature.
 - Be careful not to leave your stopwatch in a temperature below -10°C or over +60°C for a long time, as this may cause the battery electrolyte leakage or shorten the battery life.
- CHEMICALS**
 - When plastic materials are used for the stopwatch cause: Be careful not to expose the watch to solvents (such as alcohol and gasoline), cosmetic spray, detergent, adhesives or paints, as case, bracelet, etc. will discover, deteriorate or deform through the chemical action.
- STATIC ELECTRICITY**
 - The IC (Integrated Circuit) used in your stopwatch will be affected by static electricity, which may disturb the display. Keep your stopwatch with such objects as TV screens which emit strong static electricity.
- ANTI-MAGNETIC**
 - Magnetism will not affect the stopwatch.

REMARKS ON THE BATTERY

- BATTERY LIFE**
 - A new normal battery will last approximately three years.
 - If the alarm is used for more than 20 seconds a day, the confirmation sound more than 50 times a day and / or the illuminating light more than 3 times a day (3 seconds for each time), the battery life may be less than the specified period.
 - The battery in your stopwatch may run down in less than the specified period after the date of purchase as it is a monitor battery inserted at the factory to check the functions and performance of the stopwatch.
 - The battery in your stopwatch will therefore be replaced with a new one only at cost even if it runs down within the guarantee period.
- BATTERY LIFE INDICATOR**
 - When all the digits start flashing, the stopwatch may stop operating within two or three days. We suggest that you have the battery replaced by a SEIKO DEALER.
 - Even though the display is flashing, time accuracy is not affected.
- BATTERY CHANGE**
 - When replacing the battery, be sure to take your stopwatch to the retailer from whom you purchased or an AUTHORIZED SEIKO DEALER, and specify the "SEIKO genuine SB battery". If an old battery is kept inside the stopwatch for a long time, electrolyte leakage may occur and a malfunction may be caused. Be sure to replace the battery as soon as it runs down to prevent any possible malfunction.
 - Don't take a battery out of your stopwatch. When a battery is taken out of a stopwatch, 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.

With each press of B, the display changes in the following order.



CARE OF YOUR WATCH

- WATER RESISTANT**
 - Designed and manufactured to withstand accidental contact with water such as splashes and rain.
- ANTI-SHOCK**
 - Your stopwatch can be worn while participating in most sports.
 - But be careful not to drop or hit the stopwatch against hard objects or otherwise subject the stopwatch to violent shocks.
- TEMPERATURE**
 - Your stopwatch is designed to work with stable accuracy between normal temperature range of 5°C and 35°C.
 - Do not leave your stopwatch in direct sunlight or very high temperatures for a long time.
 - The display may become black, but this condition will be corrected when the stopwatch returns to normal temperature.
 - Be careful not to leave your stopwatch in a temperature below -10°C or over +60°C for a long time, as this may cause the battery electrolyte leakage or shorten the battery life.
- CHEMICALS**
 - When plastic materials are used for the stopwatch cause: Be careful not to expose the watch to solvents (such as alcohol and gasoline), cosmetic spray, detergent, adhesives or paints, as case, bracelet, etc. will discover, deteriorate or deform through the chemical action.
- STATIC ELECTRICITY**
 - The IC (Integrated Circuit) used in your stopwatch will be affected by static electricity, which may disturb the display. Keep your stopwatch with such objects as TV screens which emit strong static electricity.
- ANTI-MAGNETIC**
 - Magnetism will not affect the stopwatch.

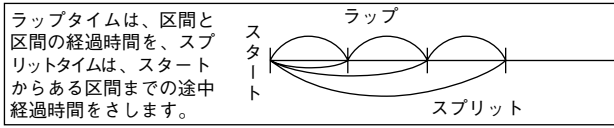
LIQUID CRYSTAL PANEL CARE OF YOUR WATCH SPECIFICATIONS

- LIQUID CRYSTAL PANEL**
 - After about 7 years of use digital display panel will decrease in contrast, becoming difficult to read. Have the panel replaced with a new one by the retailer from whom your stopwatch was purchased or an AUTHORIZED SEIKO DEALER.
- CARE OF YOUR WATCH**
 - We suggest that you have your stopwatch checked by the retailer from whom the stopwatch was purchased 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 stopwatch, adjusted or repaired may be required.
 - Be sure to have the gasket replaced with new ones by the retailer from whom the stopwatch was purchased after the stopwatch is adjusted or repaired.
 - Specify "SEIKO GENUINE PARTS" when replacing the parts.
- SPECIFICATIONS**
 - Frequency of crystal oscillator: 32,768Hz (Hz=Hertz=Cycles per second)
 - Loss/gain (monthly rate): Less than 0.0012% or 30 seconds at normal temperature range (5°C~35°C)
 - Operational temperature range: -10°C~+60°C
 - Desirable temperature range of use: 0°C~+50°C
 - Display system: Stopwatch display
 - Lap/split No.: 1 to 100 seconds, hours, minutes, seconds, Stopwatch display mark
 - LAP Time display (Lap time and accumulated elapsed time)
 - "LAP" and "STOP" marks (Alarm and hourly time signal marks)
 - Split time display (Split time and accumulated elapsed time)
 - "SPLIT" and "STOP" marks (Alarm and hourly time signal marks)
 - Lap/split No. (Lap time and split time)
 - "LAP", "SPLIT", "STOP" and "RECALL" marks (Alarm and hourly time signal marks)
 - Designated alarm time (hour and minutes) and AM/PM mark (in the 12-hour indication)
 - Current time (hour, minutes and seconds) and AM/PM mark (in the 12-hour indication)
 - Alarm display mark and alarm mark. (Hourly time signal mark)
 - Hour, minute, second, month, date, day, time/calendar display mark and AM/PM mark. (alarm and hourly time signal marks)

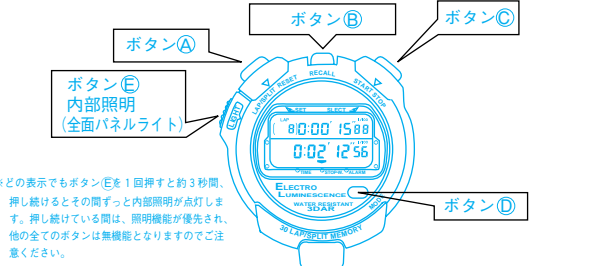
■セイコーデジタルストップウォッチS034の主な特長

- セイコーデジタルストップウォッチS034は、ストップウォッチ機能の他にアラーム機能と時刻・カレンダー機能を備えています。又、暗いところでも表示全体を確認することができる内部照明(全面パネルライト)がつけられています。
- ストップウォッチ機能
 - 1/100秒単位で計測できる10時間計です。
 - ラップ計測とスプリット計測は、それぞれ別画面に表示しますので、必要に応じ選択できます。
 - 最初の1区間から30区間までのラップ/スプリットタイムは、自動的に記憶(メモリー機能)していますので呼び出せることができます。
- アラーム機能
 - 設定した時刻に毎日鳴るデイリーアラームです。
 - アラームのON/OFFを切り換えることができます。
- 時刻・カレンダー機能
 - 時刻(時/分/秒)の他に月/日/曜を表示します。
 - 1995年~2044年までの月末のカレンダー修正を必要としない、フルオートカレンダーです。
- 内部照明(全面パネルライト)
 - 物質に電圧をかけると光を放す現象(エレクトロルミネッセンス=EL)を利用した発光方式を採用しています。
 - 専用ボタン操作により、どの機能でも1回押しで約3秒間点灯し、押し続けている間は点灯し続けます。

※エレクトロルミネッセンスの発光体は、発光時間の経過と共に徐々に輝度が減衰する特性をもっています。
 (詳しくは、「■エレクトロルミネッセンスパネル(内部照明)の交換について」の項をご参照ください。)



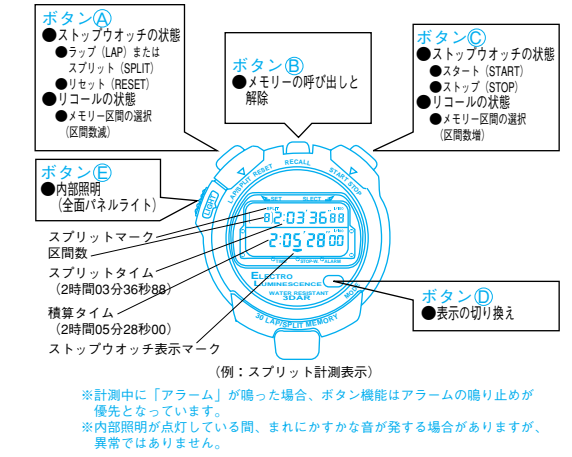
■ボタン名称と表示の切り換え



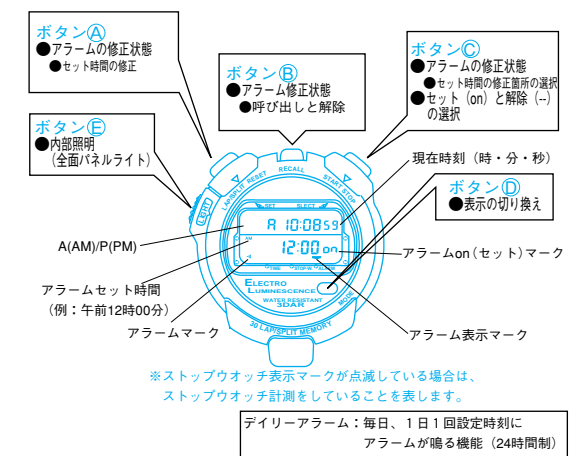
■お取扱いにあたって

- 防水**
 - 3気圧防水ですので、雨天時や水しぶきのかかりやすいスポーツ時でもご使用できます。
 - ※ストップウォッチの内部にも多少湿気がありますので、外気がストップウォッチ内部の温度より低い場合には、ガラス内面がくもることがあります。くもりが一時的な場合には支障はありませんが、長時間消えない場合はお買い上げ店にご相談ください。
- ショック**
 - 落下したり、ぶついたり等の過度の衝撃はお避けください。
- 磁気**
 - 磁気の影響はありません。
- 温度**
 - この時計は常温(5℃~35℃の範囲内)の時に安定した精度が得られるように調整してあります。
 - 直射日光が長時間あつたり、高温になる所に置かないでください。
 - 表示が黒くなることがあります。常温にもどれば影響は残りません。
 - ※-10℃以下、+60℃以上の温度下で長時間放置しますと止まりの原因になったり、電池が漏液したり、電池寿命が短くなる場合がありますので、ご注意ください。

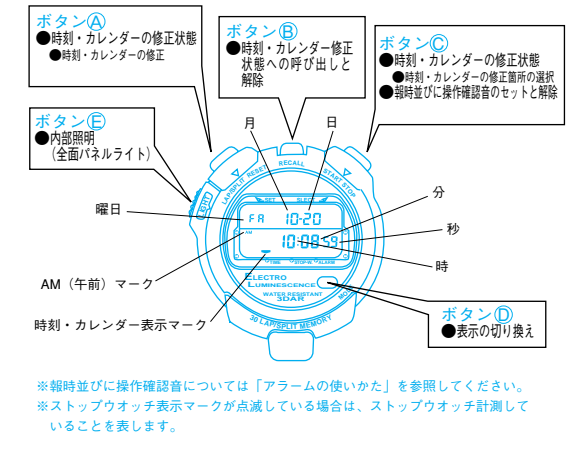
■ストップウォッチ表示 ●ボタンの名称とはたらき



■アラーム表示



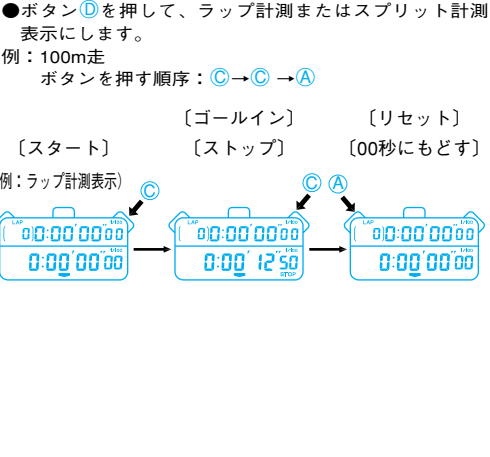
■時刻・カレンダー表示 ●ボタンの名称とはたらき



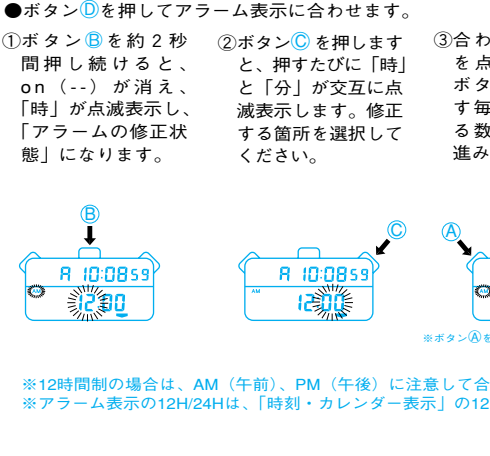
■お取扱いにあたって

- 温度**
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 - 直射日光が長時間あつたり、高温になる所に置かないでください。
 - 表示が黒くなることがあります。常温にもどれば影響は残りません。
 - ※-10℃以下、+60℃以上の温度下で長時間放置しますと止まりの原因になったり、電池が漏液したり、電池寿命が短くなる場合がありますので、ご注意ください。
- 薬品**
 - ケースの材料として、プラスチックを使用しておりますのでアルコール、ガソリン等の溶剤類、化粧品などのスプレー液など、クリーナー類、接着剤および塗料類が付着しますと、化学作用により、ケース、ヒモなどの変色、劣化や破損の原因となる場合がありますので充分ご注意ください。
- 静電気**
 - 時計に使われているIC(集積回路)は静電気に弱い性質をもっています。強い静電気を受けた場合は、表示が狂うことがありますので、特に関心ください。特にテレビ画面からは強い静電気が出ておりますので、ご注意ください。

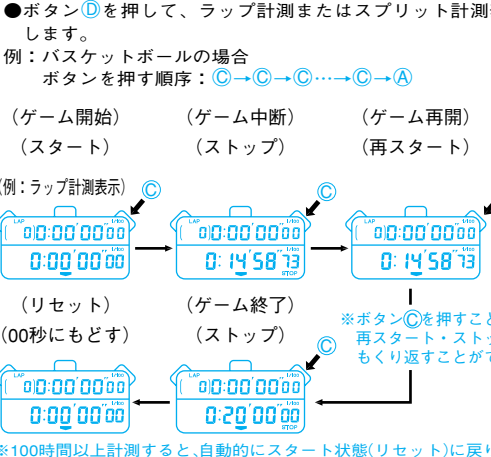
●普通の使いかた



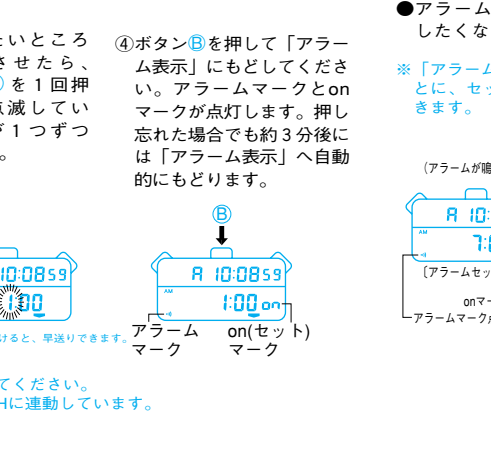
●アラームの合わせかた



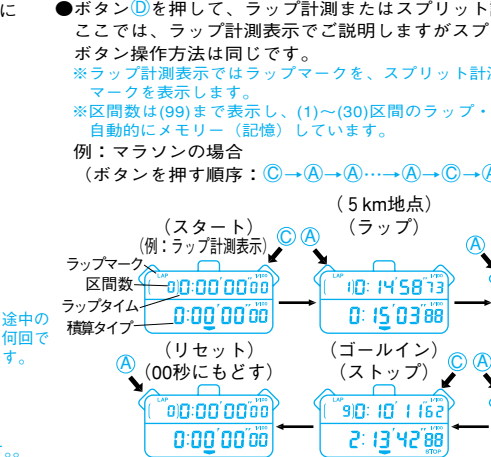
●時間計測を積算でおこなうとき



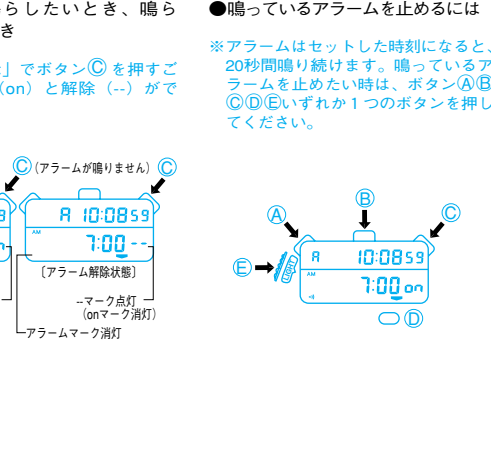
●アラームの使いかた



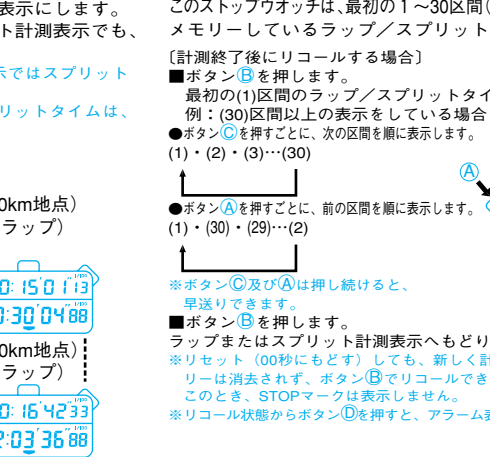
●ラップ計測またはスプリット計測をおこなうとき



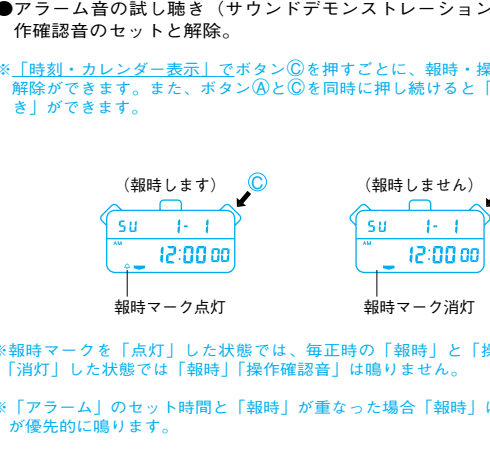
●アラームの合わせかた



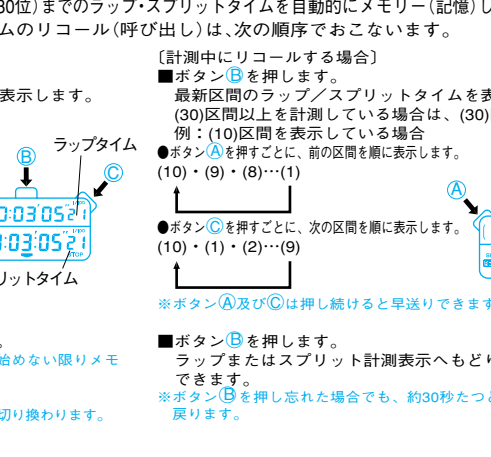
●メモリー機能(リコール)の使いかた



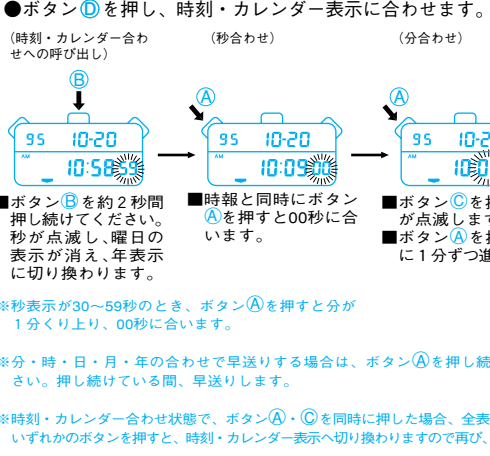
●電池についてのお願いとご注意



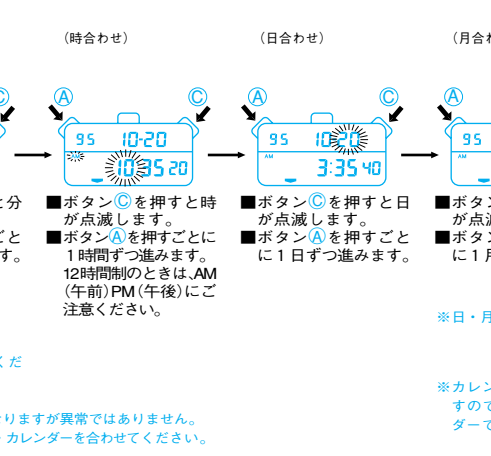
■エレクトロルミネッセンスパネル(内部照明)の交換について



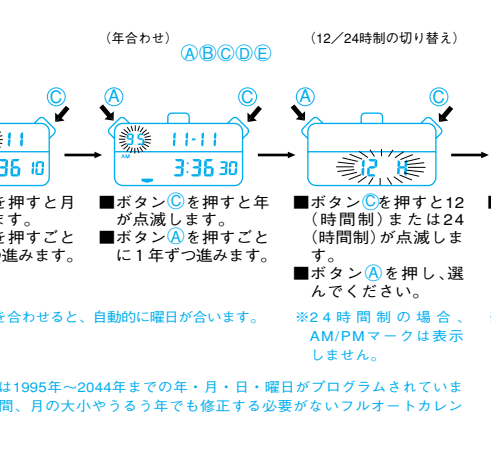
■時刻・カレンダーの合わせかた



■液晶パネルについて



■長くご愛用いただくために



■製品仕様

- 1. 水晶振動数.....32,768Hz(Hz=1秒間の振動数)
- 2. 時間精度.....常温(5℃~35℃)において±0.0012%以内(月差換算±30秒以内)
- 3. 作動温度範囲.....-10℃~+60℃
- 4. 使用温度範囲.....0℃~+50℃
- 5. 表示内容
 - 【ストップウォッチ表示】
 - 区間数、1/100.時/分/秒/ストップウォッチ表示のマーク
 - ラップ計測(ラップタイム/積算タイム)
 - LAP/STOPのマーク、(アラーム・報時マーク)
 - スプリット計測(スプリットタイム/積算タイム)
 - SPLIT/STOPのマーク、(アラーム・報時マーク)
 - リコール(ラップタイム/スプリットタイム)
 - LAP/SPLIT/STOP/RECALLのマーク、(アラーム・報時マーク)
 - 【アラーム表示】
 - アラームセット時刻(時・分)、AMP.M(12時間制のとき表示)
 - 現在時刻(時/分/秒)、A/P(12時間制のとき表示)
 - アラーム表示のマーク、アラームマーク、(報時マーク)
 - 【時刻・カレンダー表示】
 - 時・分・秒・月・日・曜、時刻・カレンダー表示、AMP.Mのマーク(アラーム・報時マーク)
 - FE型ネマック液晶
 - リチウム電池 SB-T51 1個
 - 電池寿命切れ予告機能付き
 - C-MOS-LSI 1個
 - ※上記の製品仕様は改良のため予告なく、変更することがあります。

■保証について

