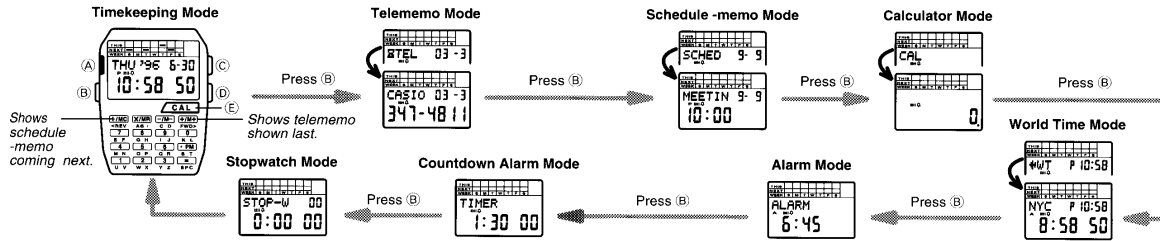


# OPERATION CHART:MODULE QW-1486

## GENERAL GUIDE

- Press (B) to change from mode to mode.
- Holding down (E) while in the Timekeeping Mode changes directly to the Calculator Mode.



## ABOUT EEPROM

This watch is equipped with EEPROM (electrically erasable programmable read-only memory) that retains the following data even when the battery goes dead.

- **Telememo Data** (Names, telephone numbers)
- **Schedule Memo Data** (Messages, months, days, times)
- **World Time** (Daylight saving time setting)

### Important!

The following conditions can cause data to be corrupted or completely lost.

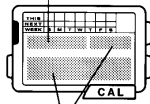
- Malfunction, repair, or whenever the case of the watch is opened.
- Strong electrostatic charge or impact.
- Extreme temperatures or humidity levels.
- Using the wrong battery replacement procedure.

Always be sure to make backup copies of important data. For your convenience a data record sheet is included at the back of this manual.

## INPUTTING TEXT AND NUMBERS

**Text Area (up to 8 characters)**

There are two areas in the display which you can input text and numbers in: Text Area and Number Area.

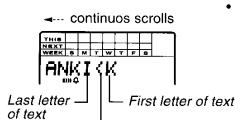


**Number Area (up to 12 digits)**

### Text Area

You can input alpha characters (from A through Z), numbers, hyphens, spaces, periods, and colons as text for the Telememo's name and the Schedule Memo Mode's message.

1. Perform the required operation to make the cursor appear in the mode where you want to input text.
  - You can input text in the Telememo or Schedule Memo. See the section describing each mode for details on how to make the cursor appear.
2. While the cursor is in the text area, use the key pad to input characters.
  - Note that each key is assigned more than one character. Each press of a key sequentially changes the character at the cursor's position. When you press (1), for example, the input character changes in the sequence: U → V → 1 → U → V etc. The letters that a key inputs are printed below the key, while the number it inputs is printed on the key.
3. When the character you want is displayed at the cursor position, press (E) to move the cursor to the right.
  - Note that you can use (B) and (E) to move the cursor between characters to make changes and corrections.
4. Repeat steps 2 and 3 to input the rest of the characters you want.
  - You can input up to 8 characters. The display shows only six characters, but automatically scrolls from right to left to show all of the characters that make up the text. The end of the text is indicated by an end mark.

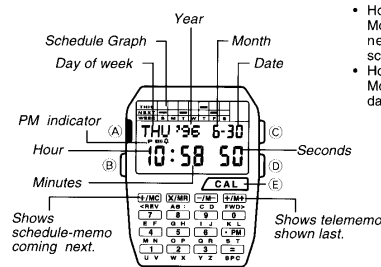


### Number Area

You can input numbers, hyphens and spaces for telephone numbers in the Telememo Mode's number area, and for the dates and times in other modes (except the Stopwatch Mode).

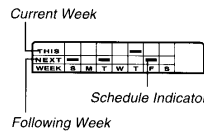
1. Perform the required operation to make the cursor appear in the mode where you want to input numbers.
  - You can input numbers in any mode, except the Stopwatch Mode. See the section describing each mode for details on how to make the cursor appear.
2. While the cursor is in the number area, use the key pad to input characters.
  - The number that a key inputs is printed on the key.
  - Use (M) to input spaces and (M) to input hyphens (Telememo Mode).
  - Each time you input a digit the cursor automatically moves to the right.
  - Note that you can use (B) and (E) to move the cursor between digits to make changes and corrections.

## TIMEKEEPING MODE



- Hold (M) in the Timekeeping Mode to display the menu for the next appointment you have scheduled.
- Hold (M) in the Timekeeping Mode to display the Telememo data you last accessed.

### About the Schedule Graph



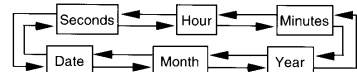
An indicator appears in the Schedule Graph whenever you input an appointment in the Schedule Memo Mode. The Schedule Graph shows all your appointments for the current week and the following week at a glance. The current week and following week change every seven days, when the current date in the Timekeeping Mode changes from Saturday to Sunday.

When the appointment indicated by a schedule indicator is for the current date, that indicator flashes in the graph. An alarm sounds for 20 seconds and the reminder message you input for that appointment appears on the display when the schedule time for that appointment is reached. You can press any key on the keypad or any button to stop the alarm once it starts to sound.

### To set the time and date



1. Press (A) while in the Timekeeping Mode. The seconds digits flash on the display because they are selected.
2. Press (B) or (E) to change the selection in the following sequence. Holding down either button changes the current selection at high speed.



3. While the selection is flashing, press (D) to switch between 12-hour and 24-hour formats.
3. While the seconds digits are selected (flashing), press (0) to reset the seconds to "00". If you press (0) while the seconds count is in the range of 30 to 59, the seconds are reset to "00" and 1 is added to the minutes. If the seconds count is in the range of 00 to 29, the minutes count is unchanged.
4. While any other digits (besides seconds) are selected (flashing), press the keys on the key pad to input the numbers you want.
  - If you are using the 12-hour timekeeping format, the A (AM) or P (PM) indicator flashes along with the hour/minutes digit. Press (PM) to switch between AM and PM.
  - The date can be set within the range of January 1, 1995 to December 31, 2094. Inputting a year from 95 to 99 is set as 1995 to 1999, while an input from 00 to 94 is set as 2000 to 2094.
5. After you set the time and date, press (A) to return to the Timekeeping Mode.
  - The day of the week is automatically set in accordance with the date.
  - If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Timekeeping Mode automatically.

## TELEMEMO MODE

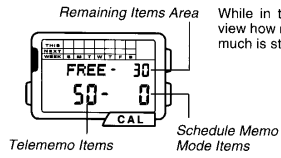
The Telememo Mode lets you store 80\* pairs of name and telephone number data. The name can be up to 8 characters long and the numbers 12 digits each. Data is automatically sorted into alphabetic order based on the name data. You can recall data by scrolling through a sorted list, or by inputting the initial character of the name you want to find.

\* The Telememo Mode shares memory with the Schedule Memo Mode. This means that the maximum number of Telememo Mode entries you can store is reduced each time you store data in the Schedule Memo Mode.

### Note

- If you do not operate any button for a few minutes while in the Telememo Mode, the watch automatically goes back to the Timekeeping Mode.

### Checking Memory Usage



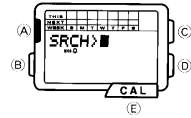
While in the Telememo Mode, hold down (E) to view how much memory is used in each mode and how much is still available.

### To use sequential search to scroll through data

While in the Telememo Mode, press (+M+) to scroll forward through the stored data, or (MC) to scroll back.

- Holding down either key scrolls through name and telephone number data at high speed.

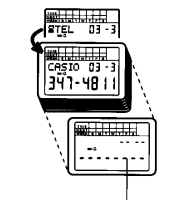
### To use initial character search to recall specific data



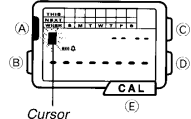
- While in the Telememo Mode, press (D) to display the initial character search display.
- Input the name of the data you want.
  - You can input only one character.

- After inputting the search data, press (+M+) to start the search.
  - The first name that matches your specification appears on the display.
  - At this time, you can press (+M+) to scroll through the names (sequential search) starting from the name that was found by the initial character operation.
  - You can also start the search by pressing (MC) (instead of (+M+)). Doing so causes the found data to be displayed starting from the last name (in alphabetical sequence) that matches.
  - If you start a search operation without inputting anything as search data, the search operation recalls a blank page (new input display).
  - If none of the data in memory matches your input, the message "NO DATA" appears on the display.

### To input Telememo data



New input display



Cursor

- In the Telememo Mode, use sequential search or initial character search to display the new input display.
  - If there is no Telememo data stored in memory yet, the New Item Display appears as soon as you enter the Telememo Mode.
  - If the message "FULL" appears on the display, it means that memory is full. To store more data, you will first have to delete some from memory. Use the procedure Telememo and Schedule Memo Mode to delete data.

- Press (A) to make the cursor appear on the display.
- Use (B) or (E) to move the cursor through the text area and the number area.

- While the cursor is in the text area, use the key pad to input the text you want.
  - Make sure you distinguish between the letter "o" and zero. Inputting a zero for an "o" can affect automatic sorting.
- While the cursor is in the number area, use the key pad to input the numbers you want.
  - Note that you must input at least one character in the text area. You can skip input of phone number.
- After inputting the data you want, press (+M+) or (MC) to store it into memory.
  - The message "SORT" appears on the display and stays there while data is being sorted into alphabetical order. The new input display appears after the sort operation is complete.
- If you want to input another data item, repeat steps 3 through 6.
- After you finish inputting all the data you want, press (A) to return to the Telememo Mode.
  - If you do not operate any button for a few minutes while the cursor is flashing on the display, the watch automatically returns to the Telememo Mode.

### To edit data stored in memory

- While in the Telememo Mode, use sequential search or initial character search to display the data item you want to edit.
- Press (A) and the cursor appears on the display.
- Use (B) and (E) to move the cursor to the character you want to change.
- Input the character you want to change to.
- Press (A) to exit the data input operation and to return to the normal Telememo Mode.

### To delete a specific data

- While in the Telememo Mode, use sequential search or initial character search to display the data item you want to delete.
- Press (A) and the cursor appears on the display.
- Hold down (D) until the message "CLEAR" appears on the display and a beep sounds. This indicates that the telephone number under the name you selected are all deleted.
- Input new data or press (A) to exit the data input operation and return to the normal Telememo Mode.

## SCHEDULE MEMO MODE

The Schedule Memo Mode lets you store the month, day, and time of each appointment, along with a 11-character reminder message. The next schedule appointment appears on the display whenever you enter the Schedule Memo Mode.

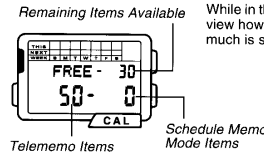
A Schedule Memo Alarm sounds when the date and time of an appointment are reached. Once a Schedule Memo Alarm starts to sound, you can switch it off by pressing any button or key pad key.

The Schedule Memo Alarm sounds and its message is displayed only if the watch is in the Timekeeping Mode when the applicable date and time are reached. In other modes, only the alarm sounds, without any display of the message. If you are inputting data or changing the time setting when a Schedule Memo Alarm time is reached, the alarm does not sound. Note that the Schedule Memo Alarm dates you set must be within one year of the current Timekeeping Mode date. This means that if today's date is June 1, you can set a Schedule Memo Alarm date up to May 31 the following year.

### Notes

- The Schedule Memo Mode shares memory with the Telememo Mode. This means that the maximum number of Schedule Memo Mode entries you can store is reduced each time you store data in the Telememo Mode.
- If you do not operate any button for a few minutes while in the Schedule Mode, the watch automatically goes back to the Timekeeping Mode.

### Checking Memory Usage

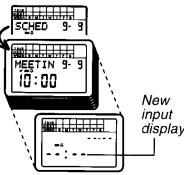


While in the Schedule Memo Mode, hold down (E) to view how much memory is used in each mode and how much is still available.

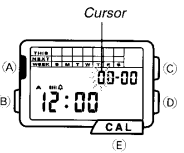
### About Schedule Memo Mode memory management...

Schedule Memo Mode data items are automatically sorted into chronological order. When the current (Timekeeping Mode) date changes at midnight each day, Schedule Memo items with dates before the new date are automatically deleted (except for the protected items). You can also manually delete Schedule Memo items normally using the procedure under "To delete a specific data".

### To input Schedule Memo data



New input display

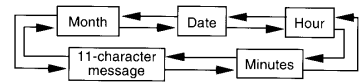


Cursor

- In the Schedule Mode, press (+M+) or (MC) until the New Input Display appears.

- If there is no Schedule data stored in memory yet, the New Input Display appears as soon as you enter the Schedule Mode.
- If the message "FULL" appears on the display, it means that memory is full. To store more data, you will first have to delete some from memory. Use the procedure Telememo and Schedule Memo Mode to delete data.

- Press (A) to make the cursor appear on the display.
- Press (B) or (E) to move the cursor in the following sequence. Holding down either button changes the current selection at high speed.



- When the cursor is located at a month, day, or time digit, use the key pad to input the numbers you want.
  - To specify 9 o'clock on August 1, for example input 08-01 9:00.
  - The 12-hour/24-hour format of the alarm time matches the format you select in the Timekeeping Mode.
  - If you are using the 12-hour timekeeping format, the A (AM) or P (PM) indicator flashes along with the hour/minutes digit. Press (PM) to switch between AM and PM.
- While the cursor is in the text (message) area, use the key pad to input the text you want.
- After inputting the data you want, press (+M+) or (MC) to store it into memory.
  - The message "SORT" appears on the display and stays there while data is being stored into chronological order. The new input display appears after the sort operation is complete.
- If you want to input another data item, repeat step 3 through 6.
- After you finish inputting all the data you want, press (A) to return to the Schedule Memo Mode.
  - If you do not operate any button for a few minutes while the cursor is flashing on the display, the watch automatically returns to the Schedule Memo Mode.

### To search for data

While in the Schedule Memo Mode, press (+M+) to scroll forward through the stored data, or (MC) to scroll back. Holding down either key scrolls at high speed.

### To edit data stored in memory

- While in the Schedule Mode, use (+M+) or (MC) to display the data item you want to edit.
- Press (A) and the cursor appears on the display.
- Use (B) and (E) to move the cursor to the character you want to change.
- Input the character you want to change to.
- Press (A) to exit the data input operation and to return to the normal Schedule Mode.

### To delete a specific data

- While in the Schedule Mode, use (+M+) or (MC) to display the data item you want to delete.
- Press (A) and the cursor appears on the display.
- Hold down (D) until the message "CLEAR" appears on the display and a beep sounds indicating the data is deleted. At this time the cursor appears on the display ready for input.
- Input new data or press (A) to exit the data input operation and return to the normal Schedule Mode.

### About data protection

You can select specific Schedule Memo items and protect them against being deleted when they expire. Protected items are rescheduled so that they are set for the same date and time each year, so they are perfect for birthdays, anniversaries, etc. If you want to delete a protected Schedule Memo item, you must do so manually as described on "To delete a specific data".

### To switch data protection on and off

While the month and day digits are flashing during data input, press (C) to switch data protection on and off.

- When you press (C) to switch data protection on, the indicator "-P" appears on the display.

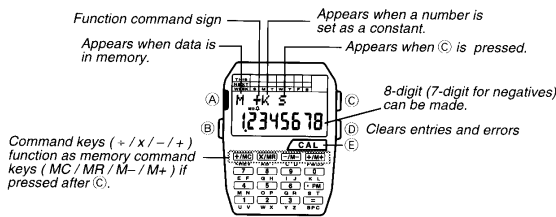
### To test the Schedule Memo alarm

Hold down (D) while in the Schedule Memo Mode to sound the alarm.

## CALCULATOR MODE

When you are in the Calculator Mode, the key pad keys can be used to input arithmetic calculations and display their results.

- If you do not operate any button for 7 or 8 minutes while in the Calculator Mode, the watch goes back to the Timekeeping Mode automatically.



- To clear a value you have just input, press (D).
- If the result of a calculation exceeds 8 digits, an "E" (error) indicator appears on the display. To clear an error and continue with the calculation, press (D). To clear the entire calculation, press (D) twice.

### Calculation Examples

Be sure to press the (D) button when starting calculations.

### Basic Calculations

The +, -, x, and ÷ indicators appear on the display whenever you press the corresponding operation key.

Example	Operation	Display
12.3 + 74 - 90 = -3.7	(D) 12 (C) 74 (C) 90 (C)	-3.7
(12 - 0.5) x 3 + 7 = 4.9285714	(D) 12 (C) 3 (C) 5 (C) 3 (C) 7 (C)	4.9285714

### Constant Calculations

Input the number you want to use as a constant, and then press one of the arithmetic keys twice. This causes the "K" indicator to appear on the display, indicating constant calculations.

Example	Operation	Display
10 + 7 = 17	(D) 7 (C) 10 (C)	+ K 17.
12 + 7 = 19	12 (C)	+ K 19
78 - 12 = 66	(D) 12 (C) 78 (C)	- K 66
45 - 12 = 33	45 (C)	- K 33
2 x 12 = 24	(D) 12 (C) 2 (C)	x K 24
5 x 12 = 60	5 (C)	x K 60
45 ÷ 9 = 5	(D) 9 (C) 45 (C)	÷ K 5.
72 ÷ 9 = 8	72 (C)	÷ K 8.
17 + 17 + 17 + 17 = 68	(D) 17 (C) 17 (C) 17 (C) 17 (C)	+ K 68.
(2.3)² = 27.984	(D) 2 (C) 3 (C) 3 (C) (=) (C)	x K 27.9841

\*To perform the above as (2.3)² :  
(D) 2 (C) 3 (C) (=) (C)

### Independent Memory

M- : Subtracts the displayed value from independent memory.

M+ : Adds the displayed value to independent memory.

MC : Clears independent memory.

MR : Recalls the value stored in independent memory.

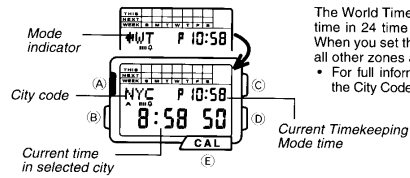
- To perform a memory operation, press (C) to shift the keypad ("S" indicator appears on display), and then press (MR), (M-), (M+), or (MC).
- The "M" indicator is shown on the display while there is a value stored in independent memory.

Example	Operation	Display
80 x 9 = 720	(D) 80 (C) 9 (C)	M 720
-150 ÷ 5 = -300	50 (C) 3 (C) (=)	M 300
20 x 3 = 60	20 (C) 3 (C)	M 60
480	(C)	M 480

### To switch the key input tone on and off

In the Calculator Mode, press (A) to switch the key input tone on and off. The key input confirmation tone on/off setting you make in the Calculator Mode is applied to all other modes, except the Stopwatch Mode.

## WORLD TIME MODE



The World Time Mode shows the current time in 24 time zones around the world. When you set the time for any time zone, all other zones are adjusted accordingly.

- For full information on city codes, see the City Code Table.

### To scroll through the World Time zones

In the World Time Mode, press (+M) or (IMC) to scroll through the World Time Zones. The time zone that is displayed when you leave the World Time mode will still be displayed when you enter the World Time mode again.

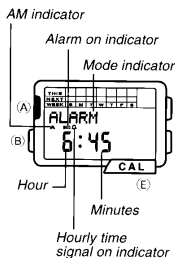
### To set the World Time

- In the World Time Mode, press (+M) or (IMC) to scroll through the World Time Zones. Display the Time Zone whose time you want to set.
- Hold down (A) to make the cursor appear on the display.
- Press (B) or (E) to move the cursor between the hour and minutes settings.
- While the cursor is located at the hour and minutes digits, use the key pad to input the World Time setting.
  - The 12-hour/24-hour format of the World Time matches the format you select in the Timekeeping Mode.
  - If you are using the 12-hour timekeeping format, the A (AM) or P (PM) indicator flashes. Press (PM) to switch between AM and PM.
  - The seconds count of the World Time is synchronized with the seconds count in the Timekeeping Mode.
- After you finish setting the time, use (A) to return to the normal World Time Mode (The digits stop flashing).
  - If you do not operate any button for a few minutes while the cursor is flashing on the display, the watch automatically goes back to the normal World Time Mode.

### To switch the World Time Mode between standard time and daylight saving time

- In the World Time Mode, display the time zone you want.
- Hold down (D) to switch between standard time and daylight saving time.
  - The indicator "♦" is shown on the display whenever daylight saving time is set.
  - Note that the daylight saving time/standard time setting affects only the currently displayed time zone. Other zones are not affected.
  - Note that you cannot switch Greenwich Mean Time (GMT) between standard time and daylight saving time.

## ALARM MODE



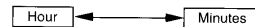
When the Daily Alarm is switched on, the alarm sounds for 20 seconds at the preset time each day. Press any button to stop the alarm after it starts to sound.

When the Hourly Time Signal is switched on, the watch beeps every hour on the hour.

- If you do not operate any button for a few minutes while in the Alarm Mode, the watch goes back to the Timekeeping Mode automatically.

### To set the alarm time

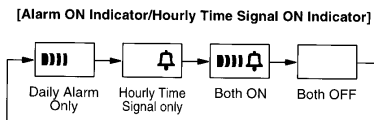
- While in the Alarm Mode, press (A) to make the cursor appear on the display. At this time the Daily Alarm is switched on automatically.
- Use the key pad to input the alarm time.
  - The cursor automatically moves to the right each time you input a number. You can also move the cursor using (B) and (E).



- The 12-hour/24-hour format of the alarm time matches the format you select in the Timekeeping Mode.
  - If you are using the 12-hour timekeeping format, the A (AM) or P (PM) indicator flashes. Press (PM) to switch between AM and PM.
  - When setting the alarm using 12-hour format, make sure that you set the time correctly as AM (A) or PM (P).
- After you set the alarm time, press (A) to return to the Alarm Mode.
    - If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Alarm Mode automatically.

### To switch the Daily Alarm and Hourly Time Signal on and off

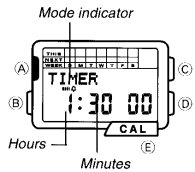
Press (C) while in the Alarm Mode to change the status of the Daily Alarm and Hourly Time Signal in the following sequence.



### To test the alarm

Hold down (D) while in the Alarm Mode to sound the alarm.

## COUNTDOWN ALARM MODE



The countdown timer can be set within a range of 1 minute to 24 hours. When the countdown reaches zero, an alarm sounds for 10 seconds or until you press any button. Note that you can also select auto repeat timing that automatically restarts the countdown from the original value you set whenever zero is reached. This continues until you manually stop the countdown.

- If you do not operate any button for a few minutes while in the Countdown Alarm Mode, the watch goes back to the Timekeeping Mode automatically.

### To set the countdown time

- While in the Countdown Alarm Mode, press (A) to make the cursor appear on the display.
- Use the key pad to input the starting time.
  - The cursor automatically moves to the right each time you input a number. You can also move the cursor using (B) and (E).



- To set a starting time of 24 hours, input 0:00 00.
- After you input the countdown time, press (A) to return to the Countdown Alarm Mode.
- If you do not operate any button for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Countdown Alarm Mode automatically.

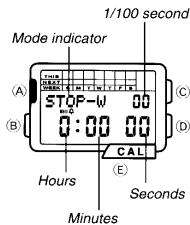
### To use the countdown timer

- Press (D) while in the Countdown Alarm Mode to start the countdown timer.
- Press (D) again to stop the countdown timer.
  - You can continue countdown timer operation by pressing (D).
- Stop the timer and then press (C) to reset the countdown time to its starting value.
  - When the end of the countdown is reached and auto repeat timing is off, the alarm sounds for 10 seconds or until you stop the alarm by pressing any button. Countdown timing stops, and the countdown time is automatically reset to its starting value after the alarm stops.

### To switch auto repeat timing on and off

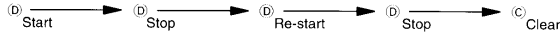
- While in the Countdown Alarm Mode, press (A) to make the cursor appear on the display.
- Press (D) to switch auto repeat on and off.
  - When the end of the countdown is reached while auto repeat is on, the alarm sounds, but the starting countdown time is reset and countdown timing starts again automatically whenever the countdown reaches zero. You can stop timing by pressing (D), and manually reset to the starting countdown time by pressing (C).

## STOPWATCH MODE

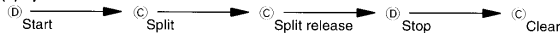


The Stopwatch Mode lets you measure elapsed time, split times, and two finishes. The range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds.

### (a) Elapsed time measurement



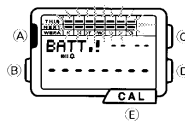
### (b) Split time measurement



### (c) Split time and 1st-2nd place times



## ABOUT THE LOW BATTERY WARNING



The upper part of the Schedule Memo display will start to flash whenever battery power drops below a certain level. Once this starts, anytime you try to perform any operation that involves memory contents (data input, editing, deletion, recall), the message "BATT." appears on the display and further operation becomes impossible. Be sure to have the battery replaced as soon as possible whenever the low battery warning appears.

## TO REPLACE THE BATTERY

ALWAYS LEAVE BATTERY REPLACEMENT UP TO THE DEALER WHERE YOU BOUGHT THE WATCH OR TO AN AUTHORIZED CASIO DISTRIBUTOR. BE SURE TO SHOW THE FOLLOWING INFORMATION TO THE PERSON REPLACING THE BATTERY.

### Attention dealer or CASIO distributor!

Be sure to use the following procedure when replacing the battery.

- Open and remove the back cover.
  - If "CLOSE" appears on the display when you open the back cover, replace the back cover. Wait for a few minutes and try again.
- Remove the battery holder.
- Remove the old battery and load a new one.
- Replace the battery holder.
- Touch the AC contact and the battery (+) side with metallic tweezers.
- Close the back cover.
  - If display contrast does not appear normal about 15 seconds after you close the back cover, repeat the above operation.
  - The WAIT indicator remains on the display while the watch performs an internal check of data in memory. This check may take as long as 12 minutes. Though you can change the time setting of the watch while the WAIT indicator is on the display, other operations are disabled.

### Caution!

- Never open the back cover while the message "SORT" is on the display. Doing so will cause data to be deleted.

## CITY CODE TABLE

Difference between GMT	City code	City	Other major city in same time zone
-11	---	---	PAGO PAGO
-10	HNL	HONOLULU	PAPEETE
-09	ANC	ANCHORAGE	NOME
-08	LAX	LOS ANGELES	SAN FRANCISCO, LAS VEGAS, VANCOUVER, SEATTLE, DAWSON CITY
-07	DEN	DENVER	EL PASO, EDMONTON
-06	CHI	CHICAGO	HOUSTON, DALLAS, NEW ORLEANS, MEXICO CITY, WINNIPEG
-05	NYC	NEW YORK	MONTREAL, DETROIT, MIAMI, BOSTON, PANAMA CITY, HAVANA, LIMA, BOGOTA
-04	CCS	CARACAS	LA PAZ, SANTIAGO, PORT OF SPAIN
-03	RIO	RIO DE JANEIRO	SAO PAULO, BUENOS AIRES, BRASILIA, MONTEVIDEO
-02	---	---	---
-01	---	---	AZORES, PRAIA
+00	GMT	---	---
+00	LON	LONDON	DUBLIN, CASABLANCA, DAKAR, ABIDJAN
+01	PAR	PARIS	MILAN, ROME, MADRID, AMSTERDAM, ALGIERS, HAMBURG, FRANKFURT, VIENNA, STOCKHOLM, BERLIN, LISBON
+02	CAI	CAIRO	ATHENS, HELSINKI, ISTANBUL, BEIRUT, DAMASCUS, CAPE TOWN
+03	JED	JEDDAH	KUWAIT, RIYADH, ADEN, ADDIS ABABA, NAIROBI
+04	DXB	DUBAI	ABU DHABI, MUSCAT
+05	KHI	KARACHI	---
+06	DAC	DHAKA	---
+07	BKK	BANGKOK	JAKARTA, PHNOM-PENH, HANOI, VIENTIANE
+08	HKG	HONG KONG	SINGAPORE, KUALA LUMPUR, BEIJING, TAIPEI, MANILA, PERTH, ULAN BATOR
+09	TYO	TOKYO	SEOUL, PYONGYANG
+10	SYD	SYDNEY	MELBOURNE, GUAM, RABAUL
+11	NOU	NOUMEA	PORT VILA
+12	WLG	WELLINGTON	CHRISTCHURCH, SUVA, NAURU ISLAND