

# SERVICE MANUAL & PARTS LIST

REF. NO. S/M-537  
NOVEMBER 1996

## MODULE NO.

QW-1559  
QW-1564  
QW-1565



BG-340XB-2ZT  
(QW-1559)



BG-350FC-2T  
(QW-1564)



BG-1000C-8BT  
(QW-1565)

INDEX

**CASIO**<sup>®</sup>

(WITHOUT PRICE)

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## 1. SPECIFICATIONS

Item	Detail	Item	Detail
Battery	CR-1616	Accuracy	±15sec./month
Battery life	QW-1559	Accuracy setting system	Trimmer capacitor
	QW-1564/1565	Accuracy checking	See page 14
Current consumption	QW-1559	Accuracy setting	+0.25~+0.35sec./day
	QW-1564/1565	Alarm system	Piezo plate on Back cover

### Function

#### Module No. 1559

- Electro-luminescent backlight
- Boarder display  
21 characters can be memorized.
- 1/100 sec. stopwatch  
Measuring capacity: 59'59.99"  
Measuring mode: Net time, split time, 1st-2nd place times  
Other: Auto-start function
- Countdown alarm  
Input range: 1 sec. to 60 min.  
Unit: 1/10 sec.
- Regular timekeeping: Hr, min, sec, am/pm, mo, date, day
- Auto-calendar (pre-programmed until the year 2039)
- Daily alarm
- Hourly time signals
- 12/24-hour formats

#### Module No. 1564 / 1565

- Electro-luminescent backlight
- Animated display (DANCE/LOVE/DJ)
- Telememo  
Memory capacity: up to 20 sets of data, each set including;  
name, telephone number and cell phone (or pager) number  
Other: Auto sort function
- 1/100 sec. stopwatch  
Measuring capacity: 23:59'59.99"  
Measuring mode: Net time, split time, 1st-2nd place times
- Regular timekeeping: Hr, min, sec, am/pm, mo, date, day
- Auto-calendar (pre-programmed until the year 2039)
- 5 multi-function alarms with icons
- Hourly time signals
- 12/24-hour formats

#### Notes: CONDITION OF BATTERY LIFE

##### QW-1559

Condition	Battery Life
Alarm 20 sec/day	15 months
EL 2 sec ~1 time/day	

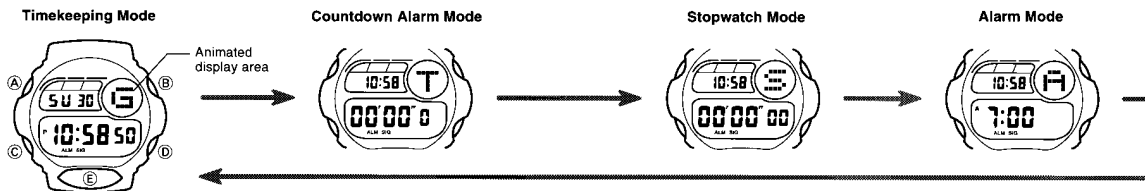
##### QW-1564 / 1565

Condition	Battery Life
Alarm 20 sec/day	24 months
EL 3 sec ~1 time/day	
Alarm 20 sec/day	15 months
EL 9 sec ~3 times/day	
Alarm 20 sec/day	10 months
EL 18 sec ~6 times/day	

## 2. OPERATION CHART:MODULE QW-1559

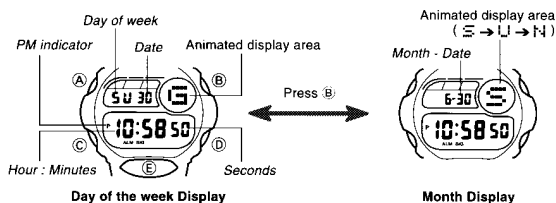
### GENERAL GUIDE

- Press **C** to change from mode to mode.
- The animated display area shows different animated characters and graphics, depending on the mode and the operation being performed.
- The watch automatically returns to the Timekeeping Mode if you do not perform any button operation for two or three minutes in any other mode.



### TIMEKEEPING MODE

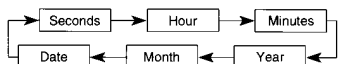
- In the Timekeeping Mode, press **B** to switch between the month and the day of the week displays. With the month display, the animated display area shows repeating characters that indicate the current day of the week. With the day of the week display, it shows a G-mark.



- In the Timekeeping Mode, press **D** to switch between the 12-hour and 24-hour formats.
- In the Timekeeping Mode, press **E** to illuminate the display for about two seconds.

#### To set the time and date

1. Hold down **A** while in the Timekeeping Mode until the seconds digits start to flash on the display. The seconds flash because they are selected.
2. Press **C** to change the selection in the following sequence.



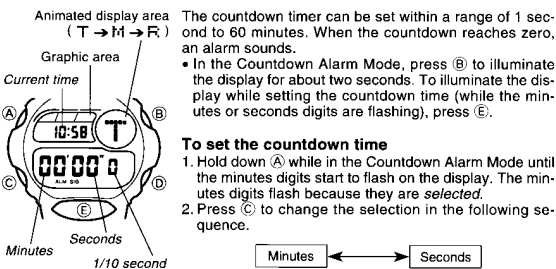
3. While the seconds digits are selected (flashing), press **D** to reset the seconds to **00**. If you press **D** while the seconds count is in the range of 30 to 59, the seconds are reset to **00** and 1 is added to the minutes. If the seconds count is in the range of 00 to 29, the minutes count is unchanged.
4. While any other digits (besides seconds) are selected (flashing), press **D** to increase the number. Holding down **D** changes the current selection at high speed.
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.
- The date can be set within the range of January 1, 1995 to December 31, 2039.
- 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.

#### About the backlight

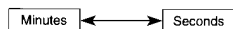
- Depending on the mode, pressing **E** or **B** turns on the backlight for about two seconds. See the sections that cover each mode for information on whether you should press **E** or **B**.
- The backlight of the watch employs an electro-luminescent (EL) light, which loses illuminating power after very long use.
  - The illumination provided by the backlight may be hard to see when viewed under direct sunlight.
  - The watch will emit an audible sound whenever the display is illuminated. This is caused by a transistor that vibrates when the EL panel lights up. It does not indicate malfunction of the watch.

### COUNTDOWN ALARM MODE



#### To set the countdown time

1. Hold down **A** while in the Countdown Alarm Mode until the minutes digits start to flash on the display. The minutes digits flash because they are selected.
2. Press **C** to change the selection in the following sequence.



3. Press **D** to increase the selected number. Holding down **D** changes the selection at high speed.
- To set the starting value of the countdown time to 60 minutes, set **00:00**.
4. After you set 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

1. Press **E** while in the Countdown Alarm Mode to start the countdown timer.
2. Press **E** again to stop the countdown timer.
- You can continue countdown timer operation by pressing **E**.
3. Stop the timer and then press **D** to reset the countdown time to its starting value.
- When the countdown reaches zero, an alarm sounds for 10 seconds or until you stop the alarm by pressing any button. The countdown time is automatically reset to its starting value after the alarm stops.

### About countdown indicators

An audible beep, the EL backlight, and the graphic area on the display keep you informed about the progress of the countdown as noted in the following table.

Indication	Start	5'00"0	Time Up
Beep	1 second	1 second	10 seconds
Backlight	1 second	1 second	2 seconds
Graphic Area			

### STOPWATCH MODE

The Stopwatch Mode lets you measure elapsed time, split times, and two finishes. You also get Auto-Start function. The range of the stopwatch is 59 minutes, 59.99 seconds.

- In the Stopwatch Mode, press **B** to illuminate the display for about two seconds.

- #### To measure elapsed time
1. Press **E** to start the stopwatch.
  2. Press **E** to stop the stopwatch.
  - You can resume the measurement operation by pressing **E** again.
  3. Press **D** to clear the stopwatch to all zeros.

#### To record split times

1. Press **E** to start the stopwatch.
2. Press **D** to display the timing up to that point. Stopwatch timing continues internally.
3. Press **D** to clear the split time and to continue time measurement on the display.
- You can repeat steps 2 and 3 as many times as you want.
4. Press **E** to stop the time measurement.
5. Press **D** to clear the stopwatch to all zeros.

#### To time first and second place finishes

1. Press **E** to start the stopwatch.
2. Press **D** when the first finisher crosses the line, and record the time.
3. Press **E** when the second finisher crosses the line.
4. Press **D** to display the finishing time of the second finisher.
5. Press **D** again to clear the stopwatch to all zeros.

#### About the Auto-Start function

With the Auto-Start function, the watch performs a 5-second countdown. When the countdown reaches zero, stopwatch operation starts automatically. During the final three seconds of the countdown, a beeper sounds with each second.

#### To use the Auto-Start function

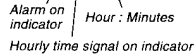
1. While the stopwatch display is showing all zeros (**00:00:00**) in the Stopwatch Mode, press **D**.
- At this time the auto-start indicator appears on the display to indicate that auto-start is on. Press **D** again to turn auto-start off (indicated when the auto-start indicator is not on the display).
2. Press **E** to start the countdown.
- Pressing **E** also causes the countdown time to appear in place of the current time.
- When the countdown reaches zero, a tone sounds, the backlight illuminates the display, and a stopwatch timing operation starts automatically.
- To stop the Auto-Start countdown and return to the all-zeros display, press **D**.
- Pressing **E** while the Auto-Start countdown is in progress immediately start the stopwatch.

### ALARM MODE

When the Daily Alarm is turned 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 turned on, the watch beeps every hour on the hour.

- In the Alarm Mode (including alarm time setting), press **E** to illuminate the display for about two seconds.

- #### To set the alarm time
1. Hold down **A** while in the Alarm Mode until the hour digits start to flash on the display. The hour digits flash because they are selected.
  - At this time, the alarm is automatically turned on.



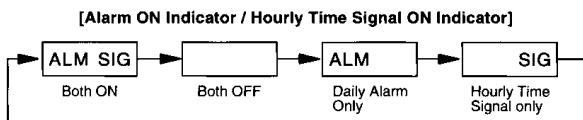
2. Press **C** to change the selection in the following sequence.



3. Press **D** to increase the selected digits. Holding down **D** changes the selection at high speed.
- The format (12-hour and 24-hour) of the alarm time matches the format you select for normal timekeeping.
  - When setting the alarm time using the 12-hour format, take care to set the time correctly as morning (A) or afternoon (P).
4. 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 turn the Daily Alarm and Hourly Time Signal on and off**

Press **B** while in the Alarm Mode to change the status of the Daily Alarm and Hourly Time Signal in the following sequence.



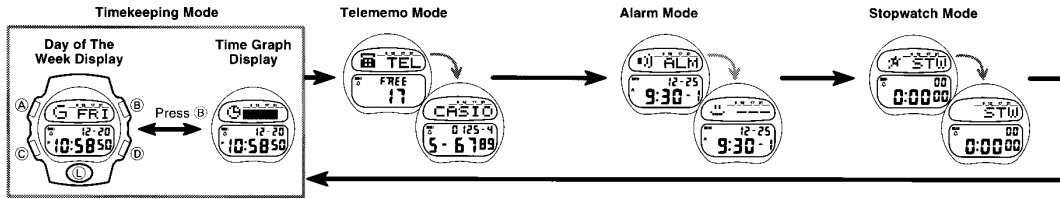
**To test the alarm**

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

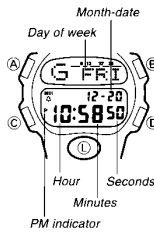
# OPERATION CHART:MODULE QW-1564

## GENERAL GUIDE

- If the contents of the display seem to be continually changing, see "Auto Display Function" for information on how to stop it.
- Press **C** to change from mode to mode.
- In any mode, press **L** to illuminate the display for about 3 seconds.

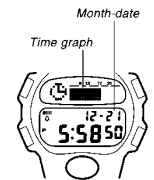


### TIMEKEEPING MODE

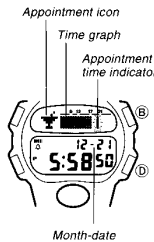


- In the Timekeeping Mode, press **D** to switch between the 12-hour and 24-hour formats.
- Press **L** in the Timekeeping Mode to activate the EL backlight and to display animated graphics.
- The Timekeeping Mode has two displays. One shows the G Mark along with the current day of the week. The other display shows a time graph for the current date. Pressing **B** switches between the two displays.
- There are three different time graph formats, which change automatically in accordance with the current relationship between an alarm time setting and the current time.

### No Alarm Time Setting for Current Date



### Alarm Time Setting for Current Date



An appointment icon appears on the display and the time graph hour for which the alarm is set flashes. The time graph shows how long before the alarm time will be reached.

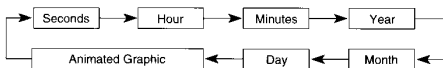
### Alarm Time Setting Within the Hour



One hour before an alarm time is reached, a tone sounds and the time graph format changes, replacing the month and day with a countdown of the minutes and seconds left until the alarm time is reached.

### To set the time and date

1. Hold down **A** while in the Timekeeping Mode. The seconds digits flash on the display because they are selected.
2. Press **C** to change the selection in the following sequence.



3. While the seconds digits are selected (flashing), press **D** to reset the seconds to 00. If you press **D** 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 **D** to increase the number or **B** to decrease it. Holding down either button changes the current selection at high speed.
- While the animated graphic is flashing, you can select one of the following graphics. The animated graphic you select appears on the display whenever you turn on the EL backlight in the Timekeeping Mode.
  1. Random selection of 2, 3, or 4.
  2. DANCE
  3. DJ
  4. LOVE

5. After you set the time and date, press **A** to return to the Timekeeping Mode.
  - The day of week is automatically set in accordance with the date.
  - The date can be set within the range of January 1, 1995 to December 31, 2039.
  - 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.

### About the backlight

In any mode, press **L** to illuminate the display for about 3 seconds.

- The backlight of the watch employs an electro-luminescent (EL) light, which loses illuminating power after very long use.
- The illumination provided by the backlight may be hard to see when viewed under direct sunlight.
- The watch will emit an audible sound whenever the display is illuminated. This is caused by a transistor that vibrates when the EL panel lights up. It does not indicate malfunction of the watch.
- The backlight automatically turns off whenever an alarm sounds.

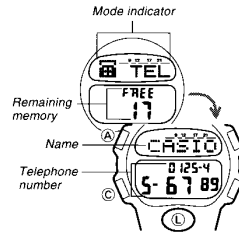
### TELEMEMO MODE

#### Caution

The following causes all data stored in memory to be deleted. Be sure to always keep separate written copies of all important data.

- Malfunction or repairs
- Dead battery
- Battery replacement

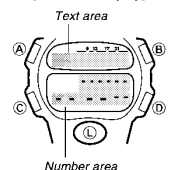
In no event will CASIO be liable for loss of data or any damages arising out of such loss.



The Telememo Mode lets you store up to 20 pages of name, telephone number, and cell phone (or pager) number data. You can recall data by scrolling through it on the display.

- The number of unused pages still available for storage of data appears on the display every time you enter the Telememo Mode.
- You can input up to eight characters in the text area, and 12 digits in each of the two (telephone and cell phone) number areas.
- The data item on the display when you exit the Telememo Mode appears first the next time you enter the Telememo Mode.

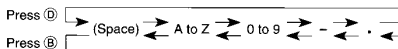
#### [New Data Display]



#### To input new Telememo data

1. In the Telememo Mode, press **D** or **B** until the New data display appears.
  - The new data display is the one that is blank (contains no name and telephone number).
  - If there is no Telememo data stored in memory yet, the new data 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 of the data.
2. Hold down **A** and a cursor appears in the text area.

3. Use **D** or **B** to input a character at the cursor position. The character changes in the following sequence. Holding down either button changes the character at high speed.



4. After you select the character you want, press **C** to advance the cursor to the right.
  - Repeat 3 and 4 until you complete name input.
  - You can input up to 8 characters in the name area.
5. After the name input is through, use **C** to move the cursor to the telephone number area.
6. While the cursor is in the telephone number area, use **B** or **D** to input a number you want. The character changes in the following sequence. Holding down either button changes the character at high speed.



7. After you select the character you want, press **C** to advance the cursor to the right.
  - Repeat 5 and 7 until you complete number input.
8. After you input the telephone number you want, use **C** to move the cursor to the cell phone number area.
  - The **9** indicator indicates the cell phone display.
  - Input the cell phone number using the same procedure as you did for the telephone number.
  - If you don't want to input a cell phone number, proceed from step 9 without inputting anything.
9. After inputting your data, press **A** to store it and return to the Telememo Mode.
  - When you press **A** to store data, the message "SORT" appears on the display for a few seconds. After the sort operation is complete, the normal Telememo Mode display (without the cursor) appears.
  - The text area of the display can show only five characters at a time, so longer text scrolls continuously from right to left.

**To recall Telememo data**

In the Telememo Mode, press (D) to scroll forward through stored data items or (B) to scroll in reverse.

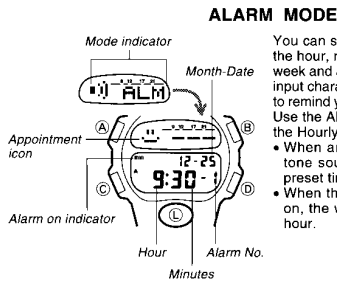
- Holding down either button scrolls through the data at high speed.

**To edit Telememo data items**

1. In the Telememo Mode, scroll through the data items and display the one you want to edit.
2. Hold down (A) and a cursor appears in the text area.
3. Use (C) to move the cursor to the character you want to change.
4. Change the character.
5. See "To input new Telememo data" for details.
6. After making the changes that you want, press (A) to store it and return to the Telememo Mode.

**To delete Telememo data**

1. In the Telememo Mode, scroll through the data items and display the one you want to delete.
2. Hold down (A) and a cursor appears in the text area.
3. Press (B) and (D) at the same time to delete the data item.
4. At this time the cursor appears in the text area, ready for input.
5. Input data or press (A) to return to the Telememo Mode.



**ALARM MODE**  
You can set five independent alarms with the hour, minutes, month, date, day of the week and appointment icon. You can even input character that appears on the display to remind you of the purpose of each alarm. Use the Alarm Mode to turn the alarm and the Hourly Time Signal on and off.

- When an alarm is turned on, an alarm tone sounds for 20 seconds when the preset time is reached.
- When the Hourly Time Signal is turned on, the watch beeps every hour on the hour.

**Alarm Types**

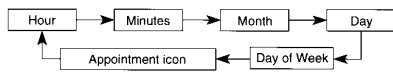
The Alarm Mode lets you specify hour and minutes, as well as month, day, and day of the week for alarms. How of an alarm sounds is determined by the items you set.

**Items Set**

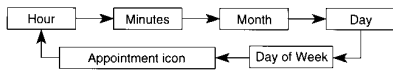
- Hour, minutes only  
Alarm sounds at the preset time every day.
- Hour, minutes, month  
Alarm sounds at the preset time every day during the specified month.
- Hour, minutes, day  
Alarm sounds at the preset time on the specified day every month.
- Hour, minutes, month, day  
Alarm sounds at the preset time annually on the specified day.
- Hour, minutes, day of the week  
Alarm sounds at the preset time every week on the specified day.
- Hour, minutes, month, day of the week  
Alarm sounds at the preset time every week on the specified day during the specified month.
- Hour, minutes, day, day of the week  
Alarm sounds at the preset time every time the specified day falls on specified day of the week.
- Hour, minutes, month, day, day of the week  
Alarm sounds at the preset time every time the specified day falls on specified day of the week in the specified month. Note that this type of setting may result in an alarm that sounds only one every few years.

**To set alarms**

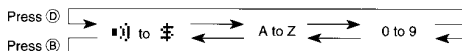
1. Press (D) while in the Alarm Mode to select Alarm 1 through Alarm 5.



2. After you select an alarm, hold down (A). The hour digits flash on the display because they are selected.
3. At this time, the alarm is automatically switched on.
3. Press (C) to change the selection in the following sequence.



4. Press (D) to increase the selected digits and (B) to decrease them. Holding down either button changes the selection at high speed.
- To set an alarm that does not include a month, set - for the month. Press (D) or (B) until the - mark appears (between 12 and 1) while the month digits are flashing.
- To set an alarm that does not include a date, set - for the date. Press (D) or (B) until the - mark appears (between 31 and 1) while the date digits are flashing.
- To set an alarm that does not include a day of week, set - for the day of week. Press (D) or (B) until the - mark appears (between SUN and SUN) while the day of week digits are flashing.
- The format (12-hour and 24-hour) of the alarm time matches the format you select for normal timekeeping.
- When setting the alarm time using the 12-hour format, take care to set the time correctly as morning A or afternoon P.
5. While the appointment icon is flashing, press (B) or (D) to scroll through the available appointment icons to find the one you want.



- The types of appointment icon available and their meanings are shown below.

	Alarm		Music
	Time		Doctor
	Telephone		Birthday
	Date		Travel
	Inquiry		Dining
	Good news		Money
	Bad news		

- The appointment icon you select appears on the display when the alarm is reached. The appointment icon serve as reminders to help you remember what the alarm is for.
- 6. After you finish inputting data, press (A) to return to the Alarm Mode.

**To stop an alarm once it starts to sound**

Press any button to stop an alarm when it starts to sound. The appointment icon for the alarm will remain in the text area of the display for about 20 seconds.

**To switch an Alarm and Hourly Time Signal on and off**

1. In the Alarm Mode, press (D) to select an alarm or the Hourly Time Signal.
2. When the alarm or Hourly Time Signal you want to is selected, press (B) to switch on and off.

- ■ ■ ■ ... indicates alarm is ON
- ▲ ..... indicates Hourly Time Signal is ON

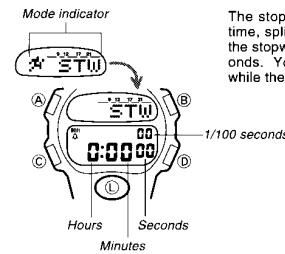
- If any alarm is on, the Alarm On indicator is shown on the display when you change to another mode.

**To test the alarm**

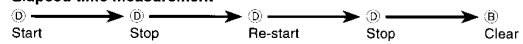
Hold down (D) while in the Alarm Mode to sound the alarm.

**STOPWATCH MODE**

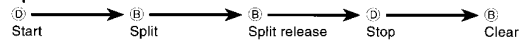
The stopwatch Mode lets you measure elapsed time, split times, and two finishes. The range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds. You can use the EL backlight at any time while the stopwatch is operating.



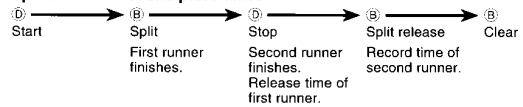
**Elapsed time measurement**



**Split time measurement**



**Split time and 1st-2nd place times**



**AUTO DISPLAY FUNCTION**

The Auto Display function of this watch continually changes the contents of the display. Note that you cannot use any of the watch's other functions while the Auto Display function is operating.

**To turn the Auto Display on**

Hold down (C) for about two or three seconds in any mode.

**To turn the Auto Display off**

Hold down (C) for about two or three seconds. At this time the watch is in the Time-keeping Mode.

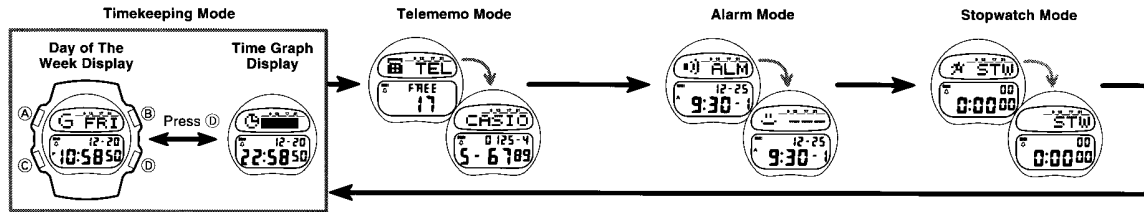
**Note**

The Auto Display function cannot be performed while you are making settings (i.e. while digits or other setting are flashing on the display).

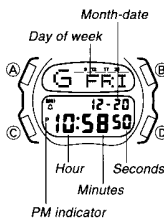
# OPERATION CHART:MODULE QW-1565

## GENERAL GUIDE

- If the contents of the display seem to be continually changing, see "Auto Display Function" for information on how to stop it.
- Press **C** to change from mode to mode.

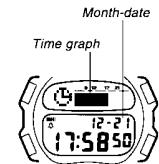


### TIMEKEEPING MODE

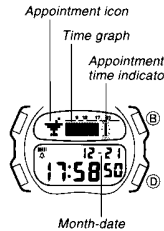


- In the Timekeeping Mode, press **B** to activate the EL backlight and display animated graphics for about 3 seconds.
- Press **D** in the Timekeeping Mode to switch between the 12-hour and 24-hour formats. With the 12-hour format, the display shows the G mark along with the current day of the week. With the 24-hour format, the display shows a time graph for the current date.
- There are three different time graph formats that change automatically in accordance with the current relationship between an alarm time setting and the current time.

#### No Alarm Time Setting for Current Date

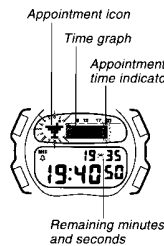


#### Alarm Time Setting for Current Date



An appointment icon appears on the display and the time graph hour for which the alarm is set flashes. The time graph shows how long before the alarm time will be reached.

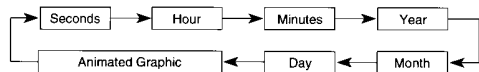
#### Alarm Time Setting Within the Hour



One hour before an alarm time is reached, a tone sounds and the time graph format changes, replacing the month and day with a countdown of the minutes and seconds left until the alarm time is reached.

#### To set the time and date

1. Hold down **A** while in the Timekeeping Mode. The seconds digits flash on the display because they are selected.
2. Press **C** to change the selection in the following sequence.



3. While the seconds digits are selected (flashing), press **D** to reset the seconds to 00. If you press **D** 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 **D** to increase the number or **B** to decrease it. Holding down either button changes the current selection at high speed.
- While the animated graphic is flashing, you can select one of the following graphics. The animated graphic you select appears on the display whenever you turn on the EL backlight in the Timekeeping Mode.
  1. Random selection of 2, 3, or 4.
  2. DANCE
  3. DJ
  4. LOVE
5. After you set the time and date, press **A** to return to the Timekeeping Mode.
  - The day of week is automatically set in accordance with the date.
  - The date can be set within the range of January 1, 1995 to December 31, 2039.
  - 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.

### About the backlight

- In the Timekeeping Mode, press **B** to illuminate the display for about 3 seconds.
- The backlight of the watch employs an electro-luminescent (EL) light, which loses illuminating power after very long use.
- The illumination provided by the backlight may be hard to see when viewed under direct sunlight.
- The watch will emit an audible sound whenever the display is illuminated. This is caused by a transistor that vibrates when the EL panel lights up. It does not indicate malfunction of the watch.
- The backlight automatically turns off whenever an alarm sounds.

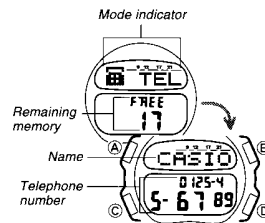
### TELEMEMO MODE

#### Caution

The following causes all data stored in memory to be deleted. Be sure to always keep separate written copies of all important data.

- Malfunction or repairs
- Dead battery
- Battery replacement

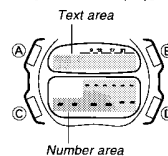
In no event will CASIO be liable for loss of data or any damages arising out of such loss.



The Telememo Mode lets you store up to 20 pages of name, telephone number, and cell phone (or pager) number data. You can recall data by scrolling through it on the display.

- The number of unused pages still available for storage of data appears on the display every time you enter the Telememo Mode.
- You can input up to eight characters in the text area, and 12 digits in each of the two (telephone and cell phone) number areas.
- The data item on the display when you exit the Telememo Mode appears first the next time you enter the Telememo Mode.

#### [New Data Display]



#### To input new Telememo data

1. In the Telememo Mode, press **D** or **B** until the New data display appears.
  - The new data display is the one that is blank (contains no name and telephone number).
  - If there is no Telememo data stored in memory yet, the new data 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 of the data.
2. Hold down **A** and a cursor appears in the text area.
3. Use **D** or **B** to input a character at the cursor position. The character changes in the following sequence. Holding down either button changes the character at high speed.
 

Press **D** → (Space) → A to Z → 0 to 9 → - → .

Press **B** → (Space) → A to Z → 0 to 9 → - → .
4. After you select the character you want, press **C** to advance the cursor to the right.
- Repeat 3 and 4 until you complete name input.
- You can input up to 8 characters in the name area.
5. After the name input is through, use **C** to move the cursor to the telephone number area.
6. While the cursor is in the telephone number area, use **B** or **D** to input a number you want. The character changes in the following sequence. Holding down either button changes the character at high speed.
 

Press **D** → - (Hyphen) → 0 to 9 → (Space)

Press **B** → - (Hyphen) → 0 to 9 → (Space)

7. After you select the character you want, press **C** to advance the cursor to the right.
- Repeat 6 and 7 until you complete number input.
8. After you input the telephone number you want, use **C** to move the cursor to the cell phone number area.
- The indicator indicates the cell phone display.
- Input the cell phone number using the same procedure as you did for the telephone number.
- If you don't want to input a cell phone number, proceed from step 9 without inputting anything.
9. After inputting your data, press **A** to store it and return to the Telememo Mode.
  - When you press **A** to store data, the message "SORT" appears on the display for a few seconds. After the sort operation is complete, the normal Telememo Mode display (without the cursor) appears.
  - The text area of the display can show only five characters at a time, so longer text scrolls continuously from right to left.

**To recall Telememo data**

In the Telememo Mode, press (D) to scroll forward through stored data items or (B) to scroll in reverse.

- Holding down either button scrolls through the data at high speed.

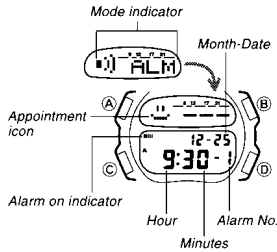
**To edit Telememo data items**

1. In the Telememo Mode, scroll through the data items and display the one you want to edit.
2. Hold down (A) and a cursor appears in the text area.
3. Use (C) to move the cursor to the character you want to change.
4. Change the character.
- See "To input new Telememo data" for details.
5. After making the changes that you want, press (A) to store it and return to the Telememo Mode.

**To delete Telememo data**

1. In the Telememo Mode, scroll through the data items and display the one you want to delete.
2. Hold down (A) and a cursor appears in the text area.
3. Press (B) and (D) at the same time to delete the data item.
- At this time the cursor appears in the text area, ready for input.
4. Input data or press (A) to return to the Telememo Mode.

**ALARM MODE**



You can set five independent alarms with the hour, minutes, month, date, day of the week and appointment icon. You can even input character that appears on the display to remind you of the purpose of each alarm. Use the Alarm Mode to turn the alarm and the Hourly Time Signal on and off.

- When an alarm is turned on, an alarm tone sounds for 20 seconds when the preset time is reached.
- When the Hourly Time Signal is turned on, the watch beeps every hour on the hour.

**Alarm Types**

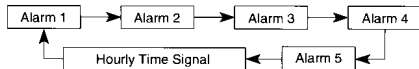
The Alarm Mode lets you specify hour and minutes, as well as month, day, and day of the week for alarms. How of an alarm sounds is determined by the items you set.

**Items Set**

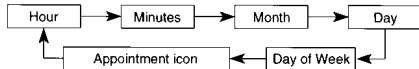
- Hour, minutes only  
Alarm sounds at the preset time every day.
- Hour, minutes, month  
Alarm sounds at the preset time every day during the specified month.
- Hour, minutes, day  
Alarm sounds at the preset time on the specified day every month.
- Hour, minutes, month, day  
Alarm sounds at the preset time annually on the specified day.
- Hour, minutes, day of the week  
Alarm sounds at the preset time every week on the specified day.
- Hour, minutes, month, day of the week  
Alarm sounds at the preset time every week on the specified day during the specified month.
- Hour, minutes, day, day of the week  
Alarm sounds at the preset time every time the specified day falls on specified day of the week.
- Hour, minutes, month, day, day of the week  
Alarm sounds at the preset time every time the specified day falls on specified day of the week in the specified month. Note that this type of setting may result in an alarm that sounds only one every few years.

**To set alarms**

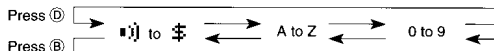
1. Press (D) while in the Alarm Mode to select Alarm 1 through Alarm 5.



2. After you select an alarm, hold down (A). The hour digits flash on the display because they are selected.
- At this time, the alarm is automatically switched on.
3. Press (C) to change the selection in the following sequence.



4. Press (D) to increase the selected digits and (B) to decrease them. Holding down either button changes the selection at high speed.
- To set an alarm that does not include a month, set - for the month. Press (D) or (B) until the - mark appears (between 12 and 1) while the month digits are flashing.
- To set an alarm that does not include a date, set - for the date. Press (D) or (B) until the - mark appears (between 31 and 1) while the date digits are flashing.
- To set an alarm that does not include a day of week, set - for the day of week. Press (D) or (B) until the - mark appears (between SAT and SUN) while the day of week digits are flashing.
- The format (12-hour and 24-hour) of the alarm time matches the format you select for normal timekeeping.
- When setting the alarm time using the 12-hour format, take care to set the time correctly as morning A or afternoon P.
5. While the appointment icon is flashing, press (B) or (D) to scroll through the available appointment icons to find the one you want.



- The types of appointment icon available and their meanings are shown below.

	Alarm		Music
	Time		Doctor
	Telephone		Birthday
	Date		Travel
	Inquiry		Dining
	Good news		Money
	Bad news		

- The appointment icon you select appears on the display when the alarm is reached. The appointment icon serve as reminders to help you remember what the alarm is for.
- 6. After you finish inputting data, press (A) to return to the Alarm Mode.

**To stop an alarm once it starts to sound**

Press any button to stop an alarm when it starts to sounds. The appointment icon for the alarm will remain in the text area of the display for about 20 seconds.

**To switch an Alarm and Hourly Time Signal on and off**

1. In the Alarm Mode, press (D) to select an alarm or the Hourly Time Signal.
2. When the alarm or Hourly Time Signal you want to is selected, press (B) to switch it on and off.

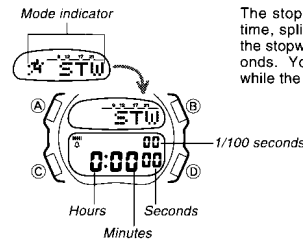
- ... indicates alarm is ON
- ..... indicates Hourly Time Signal is ON

- If any alarm is on, the Alarm On indicator is shown on the display when you change to another mode.

**To test the alarm**

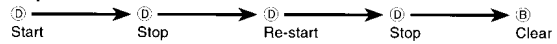
Hold down (D) while in the Alarm Mode to sound the alarm.

**STOPWATCH MODE**

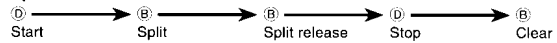


The stopwatch Mode lets you measure elapsed time, split times, and two finishes. The range of the stopwatch is 23 hours, 59 minutes, 59.99 seconds. You can use the EL backlight at any time while the stopwatch is operating.

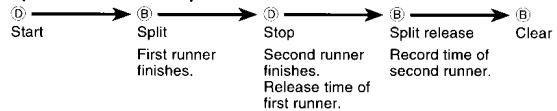
**Elapsed time measurement**



**Split time measurement**



**Split time and 1st-2nd place times**



**AUTO DISPLAY FUNCTION**

The Auto Display function of this watch continually changes the contents of the display. Note that you cannot use any of the watch's other functions while the Auto Display function is operating.

**To turn the Auto Display on**

Hold down (C) for about two or three seconds in any mode.

**To turn the Auto Display off**

Hold down (C) for about two or three seconds. At this time the watch is in the Time-keeping Mode.

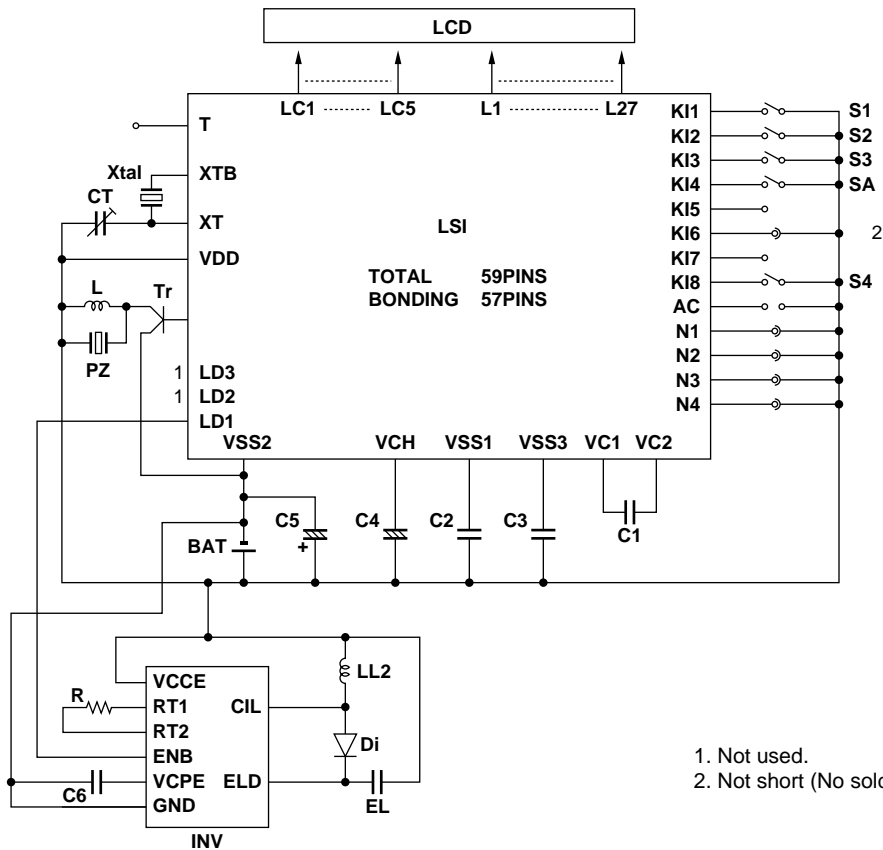
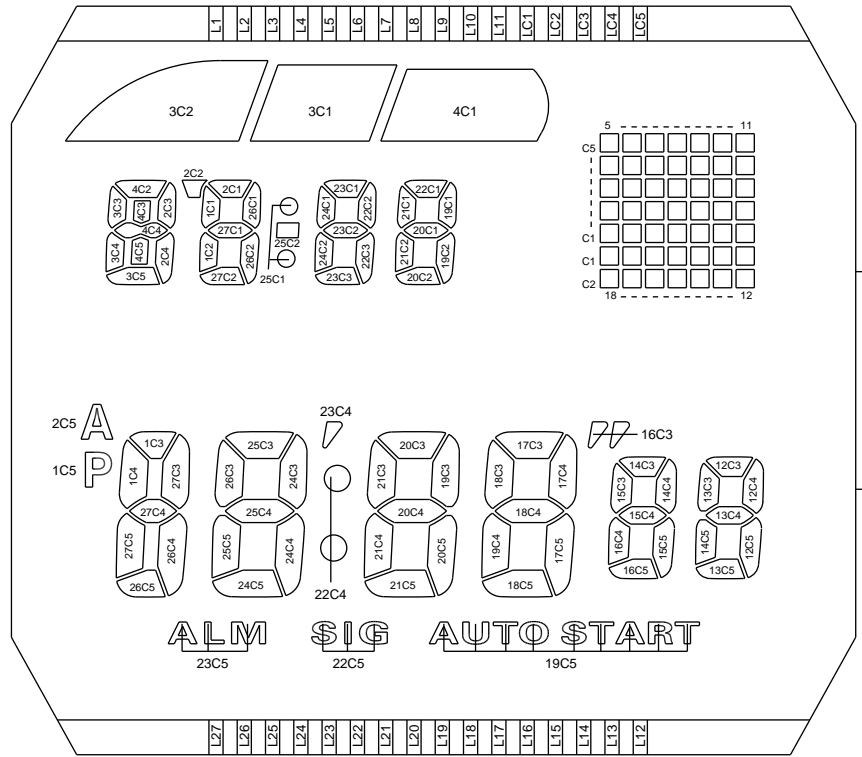
**Note**

The Auto Display function cannot be performed while you are making settings (i.e. while digits or other setting are flashing on the display).

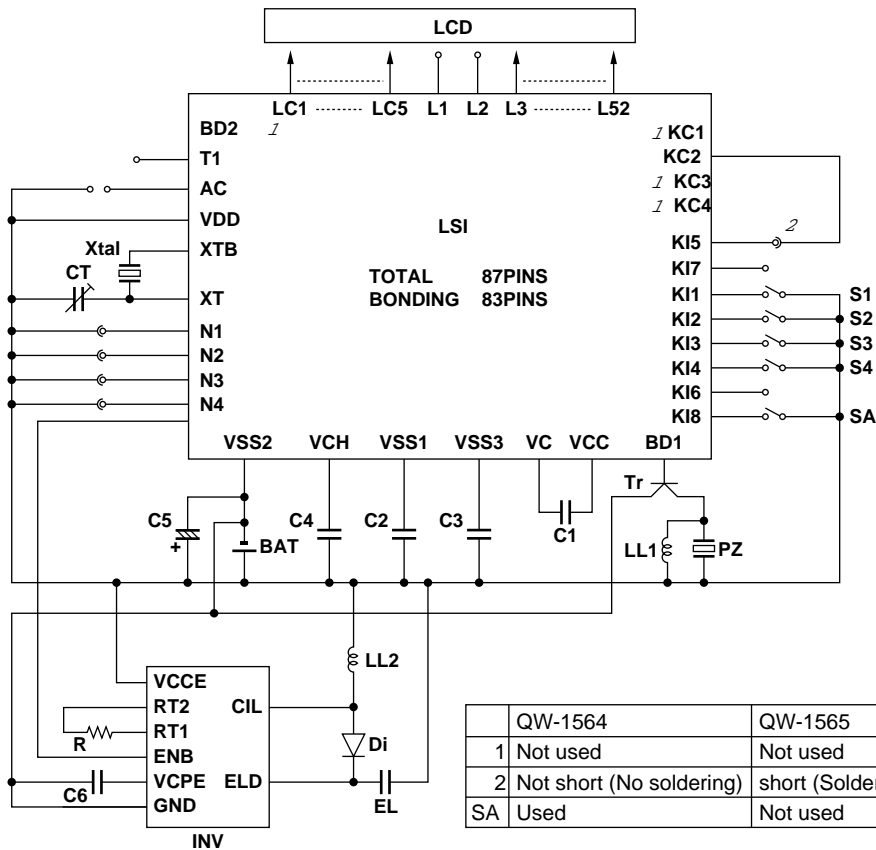
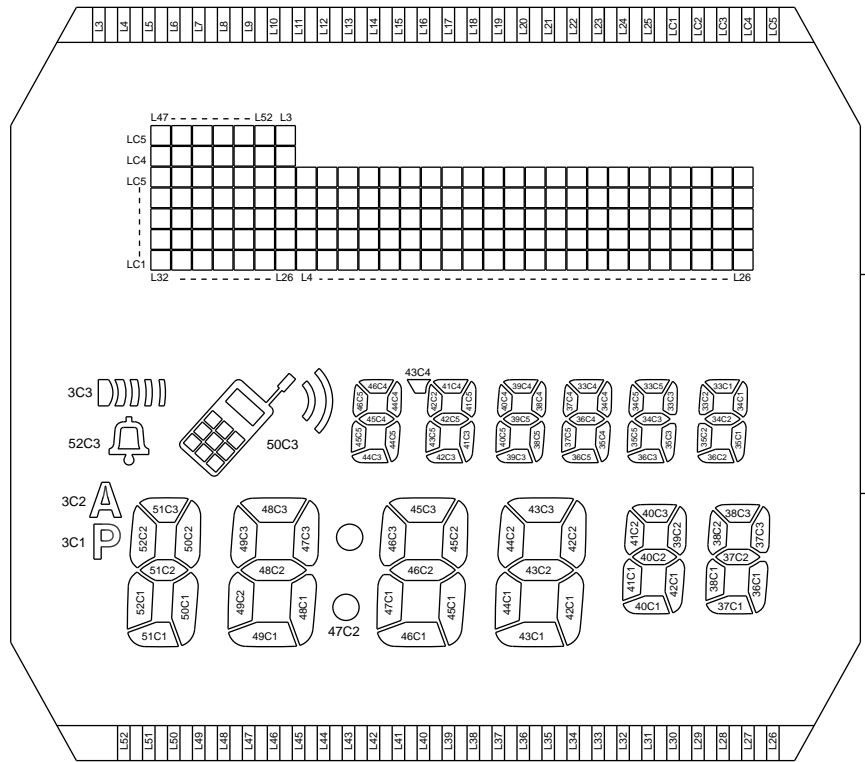
### 3. DRAWINGS: MODULE QW-1559 / 1564 / 1565

#### 3-1. BLOCK DIAGRAM

#### QW-1559



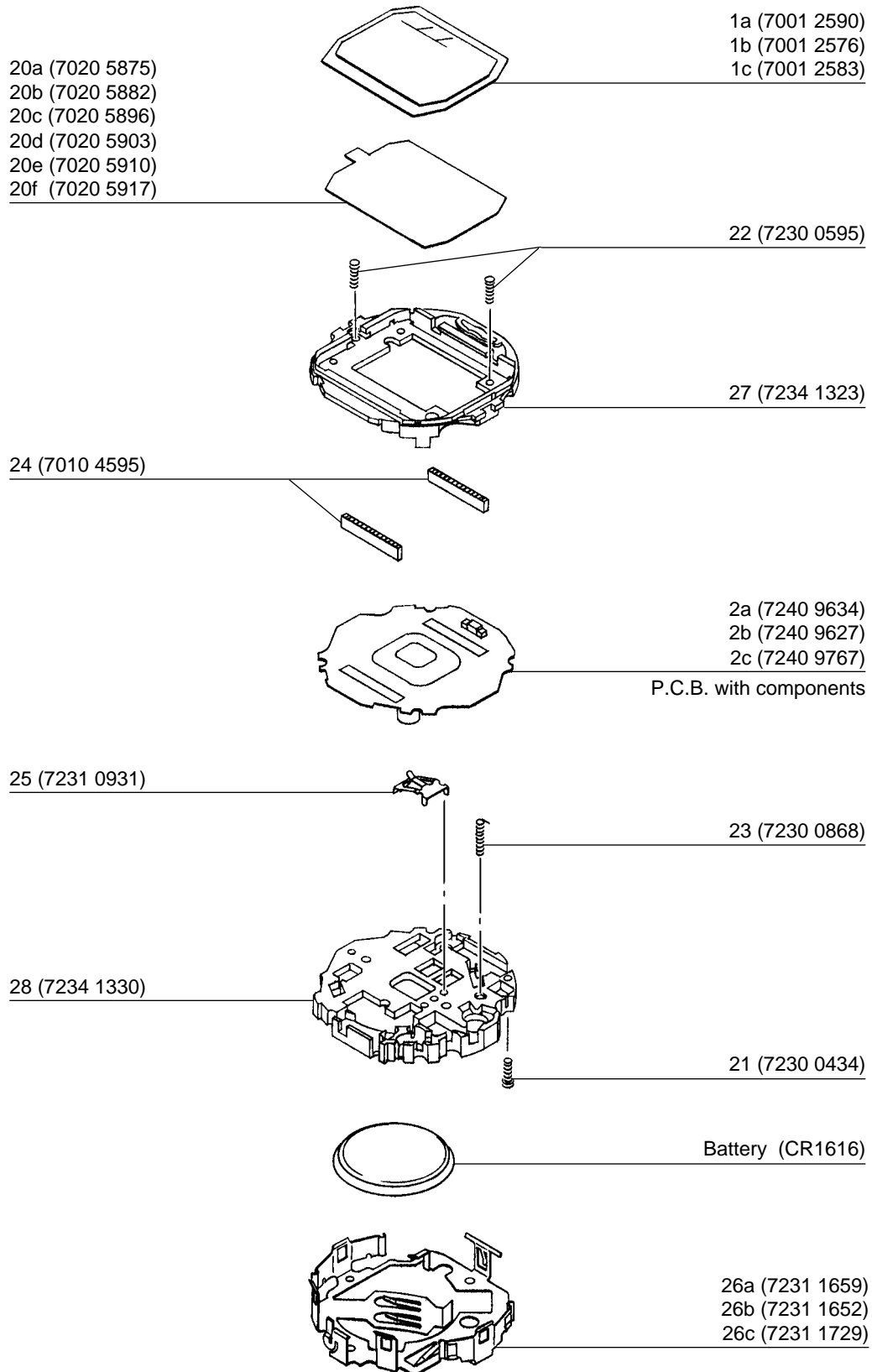
QW-1564 / 1565



	QW-1564	QW-1565
1	Not used	Not used
2	Not short (No soldering)	short (Soldering)
SA	Used	Not used



#### 4. EXPLODED VIEW: MODULE QW-1559 / 1564 / 1565



## 5. PARTS LIST : QW-1559 / 1564 / 1565

Note: 1. Prices and specifications are subject to change without prior notice.

2. Spare parts are classified as follows according to their importance in after-sales service.

A Rank ..... Very Important

B Rank ..... Important

C Rank ..... Less important

3. Batteries in Bulk pack on the tray will be supplied from our Overseas Spare Parts Section under charge basis.

Batteries in Brister pack will be supplied from our Sales Department.

4. As for order/supply of spare parts, refer to the separate publication "GUIDEBOOK for spare parts supply".

Item	Code No.	Parts name	Specification	Applicable	Q	R
	7072 4429	Module	QW-1559DF-01	BG-340X/340XB		A
	7072 4445	Module	QW-1564-02	BG-340F-2		A
	7072 4461	Module	QW-1564-04	BG-340F-3		A
	7072 4485	Module	QW-1564-07	BG-340F-4		A
	7072 4501	Module	QW-1564-09	BG-350F-7/350FC-2		A
	7072 4509	Module	QW-1564-10	BG-350F-2/6, BG-350FB-2		A
	7072 4533	Module	QW-1564-13	BG-350F-9, BG-350FB-9/350FC-7		A
	7072 4541	Module	QW-1564-14	BG-350F-4B/350FC-8		A
	7072 4549	Module	QW-1564-15	BG-350F-4A, BG-350FB-4		A
	7072 5019	Module	QW-1565-02	BG-1000C-8A		A
	7072 5035	Module	QW-1565-04	BG-1000C-8B		A
	7072 5059	Module	QW-1565-07	BG-1000CL-7		A
1a	7001 2590	LCD	C1559-01P	QW-1559DF-01	1	A
1b	7001 2576	LCD	C1564-01	QW-1564-02/04/07	1	A
1c	7001 2583	LCD	C1564-01P	QW-1564-09/10/13/14/15 QW-1565Common	1	A
2a	7240 9634	P.C.B. with components	Q251659*1	QW-1559DF-01	1	A
2b	7240 9627	P.C.B. with components	Q251661*1	QW-1564Common	1	A
2c	7240 9767	P.C.B. with components	Q251661*2	QW-1565Common	1	A
3	7101 1151	Transistor	2SD1824(TX)	QW-1559, 1564, 1565Common	1	B
4	7020 0511	Coil	ELT-3K007B	QW-1559, 1564, 1565Common	1	B
5	7020 5931	Coil	ELT3K122C	QW-1559DF-01	1	B
6	7020 5413	Coil	ELT3K104B	QW-1564, 1565Common	1	B
7	7100 7917	Inverter IC	MIP803000L	QW-1559, 1564, 1565Common	1	B
8	7110 0693	Quartz oscillator	DT-26SJ	QW-1559DF-01	1	B
9	7110 6325	Quartz oscillator	DT-26S14	QW-1564, 1565Common	1	B
10	7103 0458	Trimmer capacitor	TSF-2L2-120-4.2	QW-1559, 1564, 1565Common	1	B
11	2895 1323	Tantalum capacitor	F931A335MAA	QW-1559DF-01	1	B
12	7103 8094	Tantalum capacitor	F950J106MQAAQ2	QW-1559, 1564, 1565Common	1	B
13	7103 7443	Chip capacitor	CM21W5R472K25AT	QW-1559, 1564, 1565Common	1	B
14	7103 8080	Chip capacitor	CM21Y5V334Z16AT	QW-1559DF-01	3	B
15	7103 4530	Chip capacitor	CM316Y5V684P25AT	QW-1564, 1565Common	1	B
16	7103 3866	Chip capacitor	GRM40-002F104P25PT	QW-1564, 1565Common	3	B
17	7101 5609	Diode	MA1010000L	QW-1559, 1564, 1565Common	1	B

Item	Code No.	Parts name	Specification	Applicable	Q	R
18	2797 1372	Chip resistor	ERJ-6GEYF474V	QW-1559DF-01	1	B
19	7102 6134	Chip resistor	ERJ6GEYF304V	QW-1564/1565Common	1	B
20a	7020 5875	EL	EL-1564-A-01	QW-1559DF-01	1	B
				QW-1564-09		
20b	7020 5882	EL	EL-1564-A-03	QW-1564-02/10	1	B
				QW-1565-02		
20c	7020 5896	EL	EL-1564-A-33	QW-1564-04,	1	B
				QW-1565-04		
20d	7020 5903	EL	EL-1564-A-43	QW-1564-13	1	B
20e	7020 5910	EL	EL-1564-A-53	QW-1564-14	1	B
20f	7020 5917	EL	EL-1564-A-63	QW-1564-07/15	1	B
				QW-1565-07		
21	7230 0434	Coil spring 1199-2	Q437729-1	QW-1559, 1564, 1565Common	1	B
22	7230 0595	Coil spring 1253-1	Q439218A-1	QW-1559, 1564, 1565Common	2	B
23	7230 0868	Coil spring 1477	Q454339-1	QW-1559, 1564, 1565Common	1	B
24	7010 4595	Interconnector 1564	Q456540-1	QW-1559, 1564, 1565Common	2	C
25	7231 0931	Battery contact (-) 1416	Q350794-1	QW-1559, 1564, 1565Common	1	C
26a	7231 1659	Main plate 1564	Q150575A-2	QW-1559DF-01	1	C
26b	7231 1652	Main plate 1565	Q150575A-1	QW-1564Common	1	C
26c	7231 1729	Main plate 1566	Q150575A-5	QW-1565Common	1	C
27	7234 1323	Housing 1564-1	Q150565A-1	QW-1559, 1564, 1565Common	1	C
28	7234 1330	Housing 1564-2	Q150568A-1	QW-1559, 1564, 1565Common	1	C
29	7211 0064	Cushion 6	Q4914-1	QW-1559, 1564, 1565Common	1	C
		Battery	CR 1616		1	

\*For the price, new parts and minimum quantity of the above parts, please refer to the Parts Price List P.P.L-516.

Notes: Q – Used quantity  
R – Rank

## 6. PRECAUTIONS FOR REPAIR: MODULE QW-1559 / 1564 / 1565

### 6-1. AC (ALL CLEAR) AND REMOVING OF MODULE

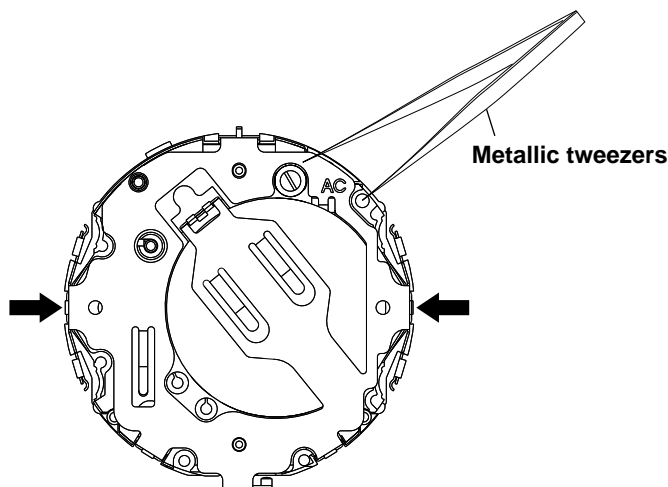
1. Perform AC (ALL CLEAR) when inserting a new battery, or else the memories and/ or counters may give erratic displays.

Touch the AC contact and the positive (+) side of the battery or main plate with the metallic tweezers.

The contact should be made for about two seconds.

For 2 seconds after the AC operation, do not make any button operations on these modules.

2. On removing of the module from the case, please insert the precision screw driver between the module and the case pointed by arrows.



### 6-2. ACCURACY CHECKING

Check the accuracy of the module with the quartz timer after switching the module to "ACCURACY CHECKING MODE".

The operations are shown below:

#### A) SWITCHING TO "ACCURACY CHECKING MODE"

Keep pushing the (D) button and continuously push the (A), (C) buttons at the same time at the normal time keeping mode.

Then all the segments are displayed and the LCD drive signals are changed to the static drive signal of "32 Hz" so that you can check the accuracy with the quartz timer.

#### B) CANCELLATION OF THE "ACCURACY CHECKING MODE"

Push any button except (D).

Then the display is returned to its original state.

**NOTE: The "ACCURACY CHECKING MODE"**

**will automatically return to the regular mode in 1 ~ 2 hour(s) without any operation.**



QW-1559



QW-1564



QW-1565

**CASIO COMPUTER CO.,LTD.**  
**Service Division**

8-11-10, Nishi-Shinjuku  
Shinjuku-ku, Tokyo 160, Japan  
Telephone: 03-3347-4926