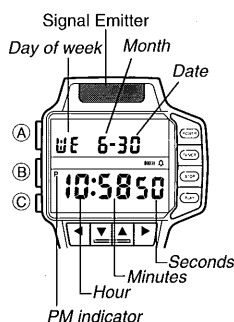
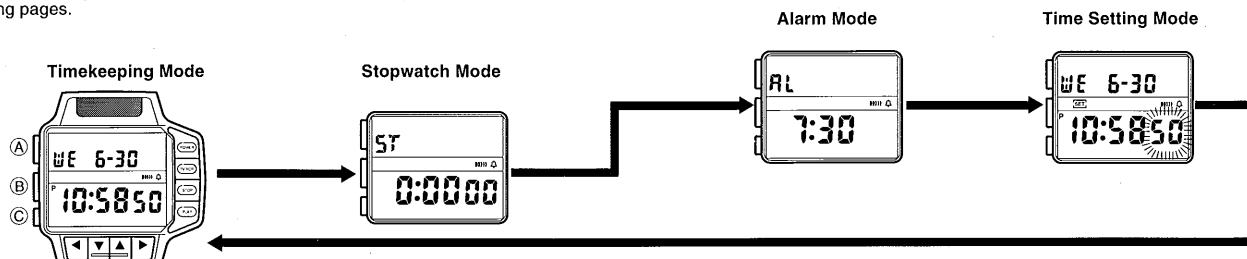


OPERATION CHART: MODULE QW-1028

GENERAL GUIDE

- You can use the Remote Control functions while in the Timekeeping Mode.
- Press **ⓐ** to change from mode to mode. Each mode is explained in detail on the following pages.

- After you perform an operation in any mode, pressing **ⓐ** returns to the Timekeeping Mode.



TIMEKEEPING MODE

In addition to normal timekeeping, the Timekeeping Mode also provides you with remote control capabilities for your TV or video tape deck.

- This watch will control only televisions and video tape decks that are equipped with remote control sensors.
- For details on how to set the time and date, see "Time Setting Mode".

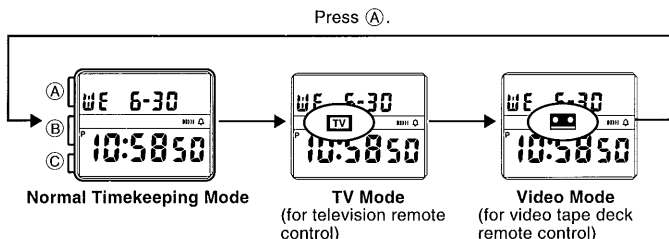
Note

The remote control buttons of the watch are marked according to their functions. In this manual, the buttons are referred to by using their marking in bold characters. Example: Press **POWER** to switch on the television.

Other (unmarked) buttons are indicated using the letters **ⓐ**, **ⓑ**, and **ⓒ**, as shown in the illustration.

About the Timekeeping sub-modes

The Timekeeping Mode is actually made up of three sub-modes. Use the **ⓐ** button while in the Timekeeping Mode to switch between the sub-modes.



About the remote control function

In order to be able to use this watch for remote control of a television or video tape deck, you must first set the appropriate manufacturer code. The manufacturer code tells the watch what signals to use for remote control. The Manufacturer Code Table shows the names of the manufacturers that correspond to each code. For full details on how to actually set the manufacturer code, see "To set the manufacturer code".

Some TV or tape deck models may not work properly with this watch, even though they are made by one of the manufacturers in the Manufacturer Code Table. Also, you may find that you can control a TV or tape deck using a code for a manufacturer that is different from the ones in the table. For details on finding the code you should use, see "How to find the right code".

Note

- Replacing the battery will cause the remote control data setting (TV/video manufacturer codes) to be altered. Be sure that you make a note of your codes before you have the battery replaced.
- There are some manufacturers with more than one code. Try the various codes available for your equipment to find the one that works best.
- You have to set separate codes for your TV and tape deck, even if they are made by the same manufacturer.
- You might not be able to use this watch to control models that combine a TV and tape deck into a single unit, multi-functional TVs that can be used as computer monitors, or other televisions or tape decks equipped with special functions.

Manufacturer code (TV)

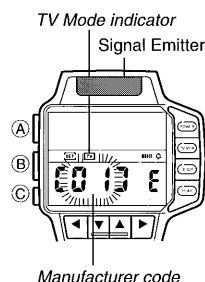
Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
AMSTRAD	15	HITACHI	11	PANASONIC	13	SONY	23
ELBE*	4	JVC	3	PANASONIC	19	SONY	24
	22	JVC	21	PANASONIC	26	SONY	25
GOLDSTAR	35		7	PHILIPS	14	TELEFUNKEN	30
GRUNDIG	27	mitsubishi	17	PHILIPS	35	TOSHIBA	5
GRUNDIG	28	MITSUBISHI	18	SANYO	6	TOSHIBA	6
GRUNDIG	29	MITSUBISHI	35	SANYO	8		9
HITACHI	1	NEC	34	SANYO	32		12
HITACHI	2	NEC	35	SANYO	33		16
HITACHI	10	NOKIA	8	SHARP	31		20

* This watch is compatible with ELBE televisions with 21-inch or smaller screens.

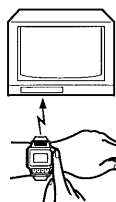
Manufacturer code (video tape deck)

Manufacturer	Code	Manufacturer	Code	Manufacturer	Code	Manufacturer	Code
AIWA	38	GRUNDIG	29	PANASONIC	13	SONY	24
AKAI	8	HITACHI	1	PANASONIC	19	SONY	25
AKAI	9	HITACHI	11	PHILIPS	13	TELEFUNKEN	30
AMSTRAD	15	JVC	2	PHILIPS	14	TOSHIBA	5
AMSTRAD	16	JVC	3	PHILIPS	20	TOSHIBA	6
AMSTRAD	38	JVC	21	SANYO	2		7
	22		12	SANYO	32		10
FIRST LINE	37	MITSUBISHI	4	SANYO	33		17
GOLDSTAR	3	MITSUBISHI	18	SANYO	34		26
GOLDSTAR	36	NEC	3	SHARP	31		28
GRUNDIG	27	NOKIA	35	SONY	23		

To set the manufacturer code



Manufacturer code



- Switch on the TV or video tape deck whose manufacturer code you want to set.
- In the Timekeeping Mode, hold down **ⓑ** until a manufacturer code appears flashing on the display.
- Press **ⓐ** to select either the TV Mode (**TV** indicator shown on the display) or Video Mode (**VIDEO** indicator shown on the display).
- Press **▶** to increase the code number.

- Holding down **▶** increases the code number at high speed.
- See the Manufacturer Code Table for details on manufacturer codes.

- To test whether or not the displayed manufacturer code is correct for your equipment, point the Signal Emitter (red window) at your TV or tape deck and press **POWER**. Note that the TV/tape deck should be switched on.
- If the above operation switches the power of your TV or tape deck off, it means that the correct code has been selected.
- Certain TVs and tape decks may be slow to respond after receiving a remote control signal. With such units, try holding down **POWER** for one or two seconds.
- If nothing happens when you press **POWER**, use steps 4 and 5 to try another code.

- When you have the correct manufacturer code, press **ⓑ** to return to the Timekeeping Mode.
- See "To use the remote control functions" for information on using the remote control functions.

- If you can't find a code that works with your equipment, see "How to find the right code".
- If you do not press any buttons for a few minutes while the manufacturer code is flashing, the flashing will stop and the watch automatically returns to the Timekeeping Mode.

How to find the right code

Use the following operation if you have difficulty finding a manufacturer code that works with your equipment.

1. Switch on the TV or video tape deck whose manufacturer code you want to set.
2. In the Timekeeping Mode, hold down **B** until a manufacturer code appears flashing on the display.
3. Press **A** to select either the TV Mode (TV indicator shown on the display) or Video Mode (VCR indicator shown on the display).
4. Press **▶** until manufacturer code 01 appears.
- Code 01 comes sequentially after code 38.
- Holding down **▶** increases the code number at high speed.
5. To test whether or not the displayed manufacturer code is correct for your equipment, point the Signal Emitter (red window) at your TV or tape deck and press **POWER**. Note that the TV/tape deck should be switched on.
- If the above operation switches the power of your TV or tape deck off, it means that the correct code has been selected. Skip to step 6.
- Certain TVs and tape decks may be slow to respond after receiving a remote control signal. With such units, try holding down **POWER** for one or two seconds.
- If nothing happens when you press **POWER**, press **▶** to advance to the next code and repeat step 5 to test the code.
- Note that some codes in the table do not have manufacturer names. The watch does not emit remote control signals while these codes are set, and so you should not use them.
6. After you have found the correct manufacturer code, press **B** to return to the Timekeeping Mode.

To use the remote control functions

1. In the Timekeeping Mode, press **A** to select either the TV Mode (TV indicator shown on the display) or Video Mode (VCR indicator shown on the display).
2. Point the Signal Emitter (red window) at your TV or tape deck and use the buttons on the right side and the bottom of the watch to perform the operation that you want (see table).
- Each time you perform an operation, an indicator appears on the display to show which operation is being performed.



TV Mode			Video Mode	
Button	Operation	Indicator	Operation	Indicator
POWER	Switches power on and off	□	Switches power on and off	□
TV/VCR	Switches between TV and video function	TV	Switches between TV and video function	V
STOP	No function		Stops tape transport	■
PLAY	No function		Starts tape playback	▶
▶	Changes to the next higher channel	+	Changes to the next higher channel	+
▲	Increases volume	▲	Starts fast forward operation	⏏
▼	Decreases volume	▼	Starts rewind operation	⏮
◀	Changes to the next lower channel	—	Changes to the next lower channel	—

Note

- When using this watch with a SONY, GRUNDIG, or TELEFUNKEN television (or any other television that uses the manufacturer codes for these manufacturers), press **PLAY** (instead of **POWER**) to switch power on, and **POWER** to switch power off. The channel is always set to channel 1 whenever you switch television power on by pressing **PLAY**.
- This watch is equipped with buttons that cover as wide a range of remote control functions as possible. Note, however, that if your TV or tape deck is not equipped with some of these functions, nothing will happen when you press the corresponding button on this watch.
- For television that do not have a TV/video switching function, press the **TV/VCR** button may switch teletext etc. on and off.

Troubleshooting Guide

Problem: Remote control functions do not work at all.

- **Possible Cause:** Use of the wrong mode (TV/Video).

Action: Make sure the watch is in the TV Mode when you are trying to control a TV, or in the Video Mode when you are trying to control a video tape deck. See "About the Timekeeping sub-modes" for details on changing modes. You cannot control any other remote control device (besides a TV or video tape deck) using this watch.

- **Possible Cause:** Wrong manufacturer code

Action: You must set the correct manufacturer code for the type of TV or video tape deck you are trying to control. See "To set the manufacturer code".

- **Possible Cause:** The path between the signal emitter and TV/video tape deck is blocked or too long (more than 5 meters).

Action: Make sure that the path between the watch's signal emitter and the signal receiver on your TV or tape deck is not blocked by clothing, your hand, furniture, etc. Reduce the distance between the signal emitter and TV/video tape deck if necessary.

Problem: Some remote control functions do not work.

- **Possible Cause:** Too much distance between the watch and TV/video tape deck, or improper pointing of the watch's signal emitter.

Action: The distance between the watch and TV/video tape deck should be less than 5 meters. Also, make sure that the signal emitter is pointing directly at the TV/video tape deck when you are performing a remote control function.

- **Possible Cause:** Use of button on the watch for which the TV/video tape deck does not have a corresponding function.

Action: Some TV or tape deck models may not have functions that correspond to the functions provided on the watch.

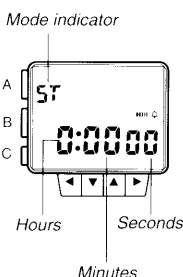
Problem: Video deck functions do not work at all.

- **Possible Cause:** Your video tape deck might have a dual code (A Code/B Code or Video 1/Video 2) remote control receiver.

Action: Try switching the setting (between A Code/B Code or Video 1/Video 2) on your video tape deck until you find the correct setting for use with the watch.

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 seconds.



(a) Elapsed time measurement

A → A → A → A → B
Start Stop Re-start Stop Clear

(b) Split time measurement

A → B → B → A → B
Start Split Split release Stop Clear

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

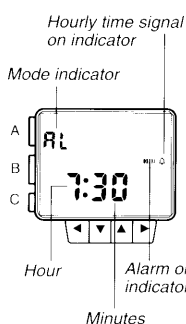
A → B → A → B → B
Start Split Stop Split release Clear
First runner finishes. Second runner finishes. Record time of first runner. Record time of second runner.

ALARM MODE

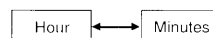
When the Daily Alarm is switched on, the alarm sounds for 20 seconds at the preset time each day. Press any button to stop the alarm after it starts to sound. When the Hourly Time Signal is switched on, the watch beeps every hour on the hour.

To set the alarm time

1. Hold down **B** while in the Alarm Mode until the hour digits start to flash on the display. The hour digits flash because they are selected.
- This operation will switch the Daily Alarm on automatically.



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

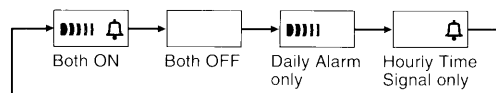


3. Press **▶** to increase the selected digits. Holding down **▶** increases the selection at high speed.
- The format (12-hour and 24-hour) of the alarm time matches the format you select for normal timekeeping.
- When setting the alarm time using the 12-hour format, take care to set the time correctly as morning or afternoon (P).
4. After you set the alarm time, press **B** to return to the Alarm Mode.

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

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

[Alarm on indicator/Hourly Time Signal on indicator]

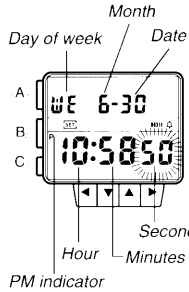


To test the alarm

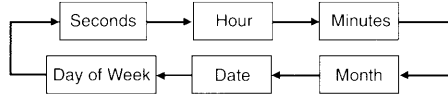
Hold down **A** while in the Alarm Mode to sound the alarm.

TIME SETTING MODE

To set the time and date



1. Use **C** to enter the Time Setting Mode.
 - The seconds digits flash, because they are *selected*.
2. Press **▲** to change the selection in the following sequence.



- While the selection is flashing, press **A** to switch between 12-hour and 24-hour formats.

3. While the seconds digits are selected (flashing), press **▶** to reset the seconds to "00". If you press **▶** 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 **▶** to increase the number. While the day of the week is selected, pressing **▶** advances to the next day. Holding down **▶** changes the current selection at high speed.
5. After you set the time and date, press **C** to return to the Timekeeping Mode.

- The watch does not make any allowance for leap years. Be sure to manually set February 29 (when one occurs) for the appropriate date.
- If you do not press any buttons for a few minutes while a selection is flashing, the flashing stops and the watch goes back to the Timekeeping Mode automatically.