



MARUMAN WATCH

INSTRUCTION

C1

Thank you for buying a Maruman watch. We hope you will enjoy using this watch for many years. In using this watch, please carefully read and follow these instructions.

FEATURES

- The watch is equipped with a stopwatch function which can measure up to 6 hours in 1/20 second increments.
- The watch can show a demonstration movement of the stopwatch hands.
- Date is displayed in numerals.

SPECIFICATIONS

- Frequency of crystal oscillator
- Loss/gain
- Operational temperature range
- Driving system
- Display system

32768Hz
±20 seconds/month at normal temperature
5°C ~ +50°C
Step motor, 4 pieces

Time
Stopwatch

Hour, minute, second
(Second hand moves at one-second intervals)
Hour minute second, and 1/20 second hands
(Minute second and 1/20 second hands move at one-minute, one second and 1/20 second intervals, respectively)
Date and day of the week
Miniature silver oxide battery SR927SW, 1 piece
C-MOS-LSI, 1 piece

Calendar
6 Battery
7 IC(Integrated circuit)

DEMONSTRATION

- The watch can show a demonstration movement of the stopwatch hands. Press button B for 2 seconds. The stopwatch hands start to show the demonstration movement.

*The demonstration function is available only when the stopwatch has been reset.

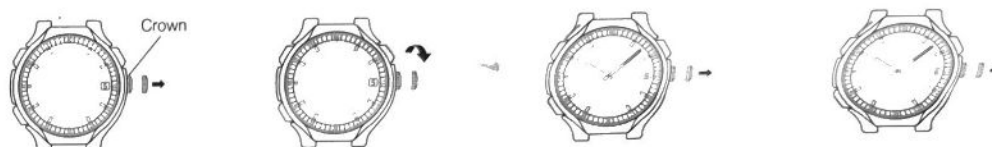
DISPLAY AND CROWN/BUTTON OPERATION



- Normal position**
Crown Free
ButtonA Start/stop of the stopwatch
ButtonB Split/split release/reset of the stopwatch/demonstration
- First click**
Turning the crown clockwise Date setting
ButtonA Start/stop of the stopwatch
ButtonB Split/split release/reset of the stopwatch
- Second click**
Crown Time Setting
ButtonA Resetting the stopwatch hour and minute hands to "0" position
ButtonB Resetting the stopwatch second hand to "0" position
ButtonC Resetting the stopwatch 1/20 second hand to "0" position

The box hands are used only in the stopwatch function

HOW TO SET THE DATE



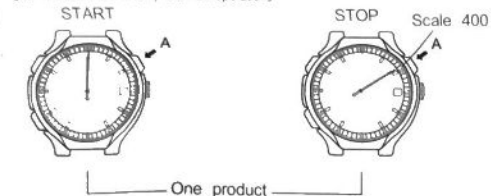
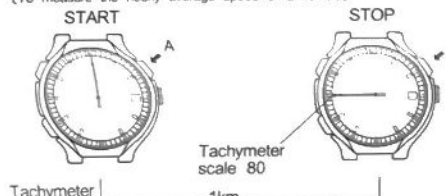
- Pull out the crown to the first click.
*The crown can be pulled out to the second click.
- Turn the crown clockwise until the date for the previous day appears.
- Pull out the crown to the second click, and advance the hour and minute hands until the desired date appears.
- Push the crown back in to the normal position.

*Do not set the date between 900 PM and 100 AM. Otherwise the date may not change.

HOW TO USE THE TACHYMETER (For the models with a tachymeter scale on the dial)

- The Tachymeter can be used to measure the hourly averagespeed of a vehicle and the hourly rate of operation. (To measure the hourly average speed of a vehicle)

(To measure the hourly rate of operation)



- Use the stopwatch to determine how many seconds it takes to go one kilometer.
- Read the tachymeter scale where the second hand points.

- Use the stopwatch to measure the time required to complete one product.
- Read the tachymeter where the second hand points.

HOW TO SET THE TIME



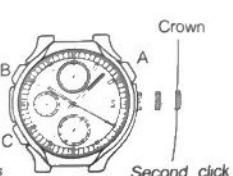
- Pull out the crown all the way to the second click when the small second hand is at "60" position.
- Turn the crown to set the hour and minute hands to the desired time. When setting the minute hand, advance it 4 to 5 minutes ahead of the desired time and then turn it back to the exact time.

- Push the crown back in to the normal position in accordance with a time signal.
*The telephone time signal service (TEL117) is helpful in setting seconds.

ADJUSTING THE HAND POSITION

- If the stopwatch hands do not return to "0" position when the stopwatch is reset, follow the procedure below to reset them.

- Reset the stopwatch and then pull out crown all the way to the second click. Even if the stopwatch is not reset by pressing button B, it will automatically be reset by pulling out crown to the second click.



- Press buttons A, B and C repeatedly but separately to reset the stopwatch hands.
Button A Resetting the stopwatch hour and minute hands
Button B Resetting the stopwatch second hand
Button C Resetting the stopwatch 1/20 second hand
The hands move quickly if the respective buttons are kept pressed.

*Reset the stopwatch 1/20 second hands to 0.00 seconds and reset the stopwatch hour and minute hands to 0 hour and 0 minutes.

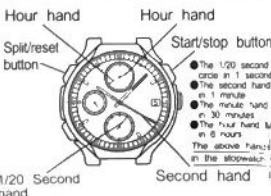
- After all the hand adjustments are completed, push crown back in to the normal position.

*The watch stops operating while crown is at the second click position. Set the time again after the hand adjustment procedure (See "HOW TO SET THE TIME").

HOW TO USE THE STOPWATCH

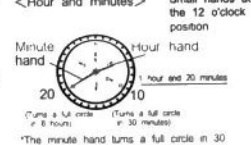
- The stopwatch can measure up to 6 hours in 1/20 second increments. (However, it continues counting until 24 hours at maximum and stops automatically.)
- Time measured is indicated by the stopwatch hour, minute, second, 1/20 second hands. You can enjoy the swift movement of the stopwatch 1/20 second hand (1/10 second and 1/100 second hands move for 3 minutes).
- Split time measurement is available.

Movement of the stopwatch hands



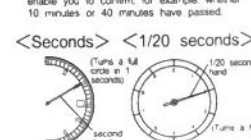
How to read the stopwatch hands

- Standard measurement



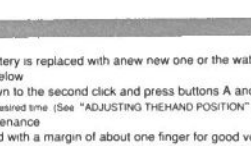
How to read the stopwatch hands

- Accumulated elapsed time measurement



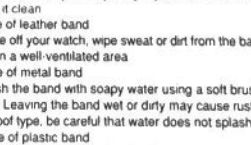
How to read the stopwatch hands

- Split/intermediate time measurement



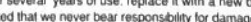
How to read the stopwatch hands

- Measurement of two competitors



How to read the stopwatch hands

- Standard measurement



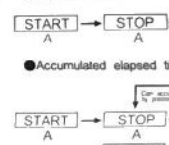
How to read the stopwatch hands

- Accumulated elapsed time measurement



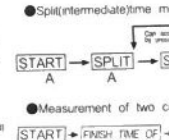
Stopwatch operation

- Standard measurement



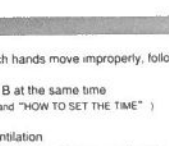
Stopwatch operation

- Accumulated elapsed time measurement



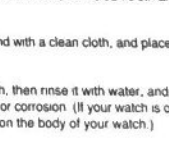
Stopwatch operation

- Split/intermediate time measurement



Stopwatch operation

- Measurement of two competitors



Stopwatch operation

- Standard measurement

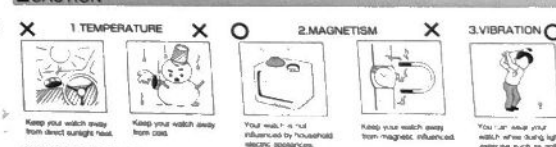


Stopwatch operation

- Accumulated elapsed time measurement



CAUTION



4. WATER RESISTANCE

- A little moisture inside of your watch may cause the inner side of the glass to steam up when the other temperature is lower than the inner temperature of your watch. Ask for repair from where you bought your watch or our service center when steam remains.
- Keep the crown at the normal position while in use.

	Water Resistant for everyday use (Water Resistant 3 BAR)	Water Resistant 10 to 15.20 BAR	Rain Washing Face	Swimming Kitchen Sink Car Wash Submersible Sterilizer	Shower Diving	Scuba Diving	Winding or Setting Watch
Water Resistant	○	○	○	○	○	○	○

1 atmospheric pressure=1BAR=10m approximately.

