

INSTRUCTION MANUAL FOR <JRA(VV)>

Thank you for your purchase of our product. To ensure prolonged use and optimum performance, please read this Instruction Manual carefully and familiarize yourself with the terms of the guarantee. Please keep this Instruction Manual in your hand and refer in time of need.

◆ FEATURES

- 1 This is a (digital and analog) combination quartz watch.
- 2 The analog section is a 3-hand quartz watch.
- 3 The digital section is a multi-function quartz watch.
- 4 The analog section and digital section are independent, requiring individual time settings.

◆ SPECIFICATIONS

1. Quartz crystal frequency: 32,768 Hz (frequency/second)
 2. Accuracy: Within ± 20 seconds (at temperatures of 5°C ~ 35°C when worn on wrist)
 3. Operating temperature range: 0°C ~ 40°C
- <Analog section>
1. Drive: Step motor
 2. Function: 3-hand (hour hand, minute hand, second hand)
 3. Additional functions: Second hand stopper, reset switch, battery life alert
 4. Battery: SR621SW-1 pc.
 5. Battery life: Approx. 3 years after setting new battery
- <Digital section>
1. Display: LCD (with EL backlight)
 2. Functions: Hour, minute, second, day and date displays, 12H/24H changeover, dual time, auto calendar for 1990 ~ 2089, 1/100 second chronograph, multi-alarm, hourly chime and timer functions CR2016-1 pc.
 3. Battery: Approx. 2 years after setting a new battery if the chronograph is used for 15 minutes once, alarm 20 seconds once and EL backlight 3 seconds within three times a day respectively.
 4. Battery life:

* Specifications are subject to change for improvement without notice.

◆ ANALOG WATCH SECTION

The analog section uses hands to indicate the time in hours, minutes, and seconds. It functions as an ordinary analog watch. At the same time, the LCD panel can display various digital functions, depending on the mode you select.

● How to adjust the analog time display

- 1 Pull out the crown when the second hand is at 0 seconds (the 12 o'clock position). The second hand will stop.
- 2 Turn the crown to adjust the time. In order to set the time precisely, advance the minute hand a few minutes ahead and then back it up to the correct time.
- 3 Press in the crown at the same time as you hear a time signal. The watch will start keeping time from that moment.

◆ DIGITAL WATCH SECTION

● FEATURES

This watch is a multi-function 3 hands Ana-Digit watch designed to have Dual Time, Multi Alarm, Count Down Timer and Chronograph. The main features are listed as follow:



- 5 modes operation: Normal Time (T1), Dual Time (T2), Alarm, Count Down Timer and Chronograph.
- Normal Time presents Hour, Minute, Second, Day and Date.
- 12/24 Hr display format.
- Auto calendar from 1990-2089.
- * However, you will not be able to set the day automatically even if you input the year, month and date because the day is not linked in motion
- 1/100 second Chronograph with working range from 0 to 99 hours 59 minutes 59.99 seconds.
- * However, 1/100th-second measurement is possible only during the first 1 hour. Thereafter, the hour, minute and second will be displayed.

- Both "Split" or "Lap" time can be taken.
- 2 individual schedule alarms can be programmed to refer to T1 or T2. All alarms can be programmed to use as daily alarms.
- Hourly chime signal.
- Dual Time also presents Hour, Minute, Second, Day and Date.
- 1 second resolution Count Down Timer with working range from 1 second to 99 minutes 59 seconds. User option for Count Down Stop, Count Down Up and Count Down Repeat function.
- 3 hands analog watch display.
- 3 seconds light up EL back light.

● BASIC OPERATION OF BUTTONS

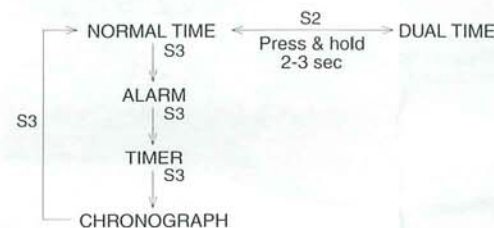
- S1: - ALARMS AND CHIME ARM/DISARM
- START/STOP OF TIMER
- START/STOP OF CHRONOGRAPH
- ADVANCE SETTING DIGITS (SET)
- S2: - VIEW NORMAL TIME OR DUAL TIME
- SELECT NORMAL TIME OR DUAL TIME (PRESS & HOLD)
- SELECT ALARM/CHIME
- SELECT TIMER FUNCTION
- SPLIT/LAP/RESET OF CHRONOGRAPH
- SELECT SETTING DIGITS (SET)
- S3: - MODE CHANGE
- SELECT SETTING DIGITS (SET)
- S4: - EL BACK LIGHT
- SET (PRESS & HOLD)
- RELOAD PRESENT TIMER
- FAST ESCAPE FROM SPLIT/LAP DISPLAY
- EXIT SET (SET)
- S5: - CROWN FOR ANALOG SETTING

● EL BACK LIGHT

- Press button S4 for EL back light with 3 seconds auto light up.

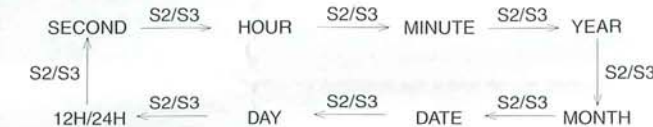
● MODE CHANGE OPERATION

- Press button S3 for mode change operation. The sequence is shown as follow:



● HOW TO SET NORMAL TIME & DUAL TIME

- Press button S3 to show Normal Time mode (T1) or Dual Time mode (T2), mode prompt "TIME" will be displayed for 2 seconds first.
- Press & hold button S2 for 2-3 seconds to select Normal Time mode or Dual Time mode.
- Press & hold button S4 for 3-4 seconds to enter setting mode. The second digits start flashing.
- With each press of button S1, the selected digits, Weekday or 12H/24H to be adjusted (flashing) can be made. Press & hold button S1 for fast setting
- With each press of button S2 or S3, next digits, weekday or 12H/24H for setting can be selected. The sequence is shown as follow:



- After all adjustments are completed, press button S4 to exit the setting mode.

Remark:

1. When Normal Time mode (T1) is displayed, press button S2 can view the dual time. When Dual Time mode (T2) is displayed, press button S2 can view the normal time.
2. When the second digits count between 30 to 59 and the button S1 is pressed while in setting mode, the seconds are reset to 00 and one minute is added.
3. If 24 Hr display format is selected, there is no PM flag "P".
4. If there is no button operation for 2-3 minutes in setting mode, the watch will automatically return back to Normal Time mode or Dual Time mode respectively.

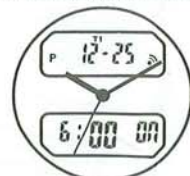
● HOW TO USE THE ALARM AND CHIME



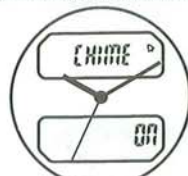
- Press & hold button S4 for 3-4 seconds to enter setting mode. The hour digits start flashing.
- With each press of button S1, the selected digits or T1/T2 to be adjusted (flashing) can be made. Press & hold button S1 for fast setting.
- With each press of button S2 or S3, next digits or T1/T2 for setting can be selected. The sequence is shown as follow:



- After all adjustments are completed, press button S4 to exit the setting mode.
- Press button S1 to arm or disarm the alarm and chime function.



ALARM ARMED



CHIME ARMED

- Press button S3 to show Alarm mode, mode prompt "AL-1" will be displayed for 2 seconds first.
- Press button S2 to select "AL-1" to "AL-2" or "CHIME"

* Note that "AL-1" and "AL-2" feature different alarm beeps.
"AL-1": Intermittent two beeps.
"AL-2": Intermittent four beeps.

Remark:

1. There are 2 schedule alarms which are working independently and they present T1/T2, alarm number, hours, minutes and alarm status. If month and date of the alarm is set to "--", the alarm will act as daily alarm.
2. The alarm sounds for 20 seconds at alarm time if the alarm function is armed. Press any key to stop the alarm sound.
3. The watch gives out a "BEEP BEEP" sound at every full hour if the chime function is armed.
4. The alarm function is automatically armed when enter setting mode.
5. If there is no button operation for 2-3 minutes in setting mode, the watch will return back to Alarm mode automatically.

● HOW TO USE THE COUNT DOWN TIMER



- Press button S3 to show Count Down Timer mode, mode prompt "TMR" will be displayed for 2 seconds first.
- Press button S2 to select Count Down Stop (CS), Count Down Up (CU), or Count Down Repeat (Cr) function.
- Press & hold button S4 for 3-4 seconds to enter setting mode. The minute digit start flashing.
- With each press of button S1, the selected digits to be adjusted (flashing) can be made. Press & hold button S1 for fast setting.
- With each press of button S2 or S3, next digits for setting can be selected. The sequence is shown as follow:



- After all adjustments are completed, press button S4 to exit the setting mode.
- Press button S1 to start or stop the timer.
- When timer is stopped, press button S4 to reload the pre-set time.

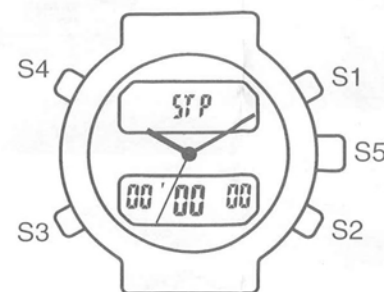
Remark:

1. The Count Down Timer is with 1 second resolution and with working range from 1 second to 99 minutes 59 seconds.
2. The watch will give out 3 beeps at 3 minutes, 2 beeps at 2 minutes and 1 beep at 1 minute before the timer counts down to zero. And the watch will beep for 5 seconds when the timer counts down to zero.
3. When timer is stopped, pressing button S2 will change the timer function and the preset time will be reloaded.
4. In Count Down Up (CU) function, when time is counting up after the timer counts down to zero, an arrow pointing upwards is displayed as illustrated as follow:



5. If there is no button operation for 2-3 minutes in setting mode, the watch will return back to Count Down Timer mode automatically.

● HOW TO USE CHRONOGRAPH



- Press button S3 to show Chronograph mode, mode prompt "Chron" will be displayed for 2 seconds first.
- Press button S1 to start the chronograph, "Run" will be displayed.
- Press button S2 to take split and lap time, split time and "SPL" will be displayed for 6 seconds, then lap time and "LAP" will be displayed for 6 seconds, then the display will return to the current running time. Press button S4 for fast escape.
- Press button S2 again to take the next split and lap time.
- Press button S1 to stop the running time, "STP" will be displayed. Then press button S1 again to re-start the running time, or press button S2 to reset to 00'00 00.

Remark:

1. The chronograph is with 1/100 second resolution for 1st hour and 1 second resolution for the rest and with working range from 0 to 99 hours 59 minutes 59.99 seconds, then the chronograph stop automatically.

* However, it can be displayed only in the unit of 1 second after the first 1 hour.

◆ IN HANDLING THE WATCH

(1) Water-resistance

- ① You can wear the watch for washing your face, etc., with water-resistance for daily life use (30M), but you cannot use it in any underwater environment.
- ② You can wear the watch for swimming with reinforced water-resistance 1 for daily life use (50M), but you cannot use it for any and all diving including skin diving.
- ③ You can wear the watch for skin diving with reinforced water-resistance II for daily life use (100M, 150M or 200M), but you cannot use it for scuba diving using an oxygen tank, saturated diving using helium gas, etc.

Conditions of		Exposure to temporary water drops (face-washing, rain, etc.)	Water sports such as swimming, yachting, etc., washing in fishery and car washing, etc., strong running water from water faucets, etc.	Skin diving without using oxygen tanks	Scuba diving (oxygen tanks are used)	Underwater operation of crown and operation of crown with water drops adhered on it
Type						
Non water resistance	Watch without marking of WATER RESISTANT on back cover of watchcase.	×	×	×	×	×
Water resistance for daily life	Watch with marking of WATER RESISTANT on back cover of watchcase.	○	×	×	×	×
Reinforced water-resistance for daily life I	Watch with marking of 50M (5BAR) on back cover or dial face along with WATER RESISTANT	○	○	×	×	×
Reinforced water resistance for daily life II	Watch with marking of 100M (10BAR), 150M (15BAR), 200M (20BAR) on back cover or dial face along with WATER RESISTANT.	○	○	○	×	×

* It is recommendable that you use the watch correctly following the above-mentioned scope of usage after ascertaining water-resistance precautions marked on the dial face of the watch or on the back of the watchcase.

(2) Replacing the battery

- ① This comes with a battery life alert. (Only analog watch section)
The battery need to be repalced within two or three days when you see the second hand moving in four seconds intervals instead of the normal one second interval.
The watch will, however, remain accurate while the second hand is moving in four seconds intervals.
- ② You are kindly requested to do the following after battery replacement
After battery replacement, set the time for both the analog watch section and the digital watch section. Also, reset each function on the digital watch section.
- ③ About battery
Concerning the battery life of this watch, when a new regular battery is set in this watch, the battery of the analog watch section will last for about 3 years and that of the digital watch section about 2 years. However, standard is the use of a stopwatch of the digital watch section for 15 minutes, alarm sound 20 seconds and EL backlight 3 seconds within three times a day respectively. The battery can go dead before reaching the above-mentioned periods if used above the limits mentioned.



(3) Shock

- ① Be sure to take the watch off your wrist when you engage in strenuous sports, whereas playing such light sports as golf, etc., will not adversely influence the watch.
- ② Avoid a violent shock such as dropping the watch on the floor.

(4) Magnetism

- ① If the watch is left as it stands at a place near strong magnetism for an extended period, the component parts can get magnetized, resulting in a failure. Be careful.
- ② The watch can temporarily gain or lose time when exposed to magnetism, but it functions with original precision when it is put away from the magnetism. In this case, correct the time.

(5) Vibration

The watch can lose time temporarily when it is exposed to strong vibration while riding motorcycles or using jack-hammers, chain saws, etc.

(6) Temperature

In the environment below and above the normal temperatures <5°C-35°C>, the watch may malfunction and stop.

(7) Chemicals, Gasses, etc.

Utmost caution must be exercised for contacts with gasses, mercury,



chemicals (thinner, gasoline, various solvents, detergents containing such components, adhesives, paints, drugs, perfume, cosmetics, etc.), and so forth. Such contacts may cause the discoloration of a watchcase, a watchband, and a dial face. The discoloration, deformation, and damage of various resin-based component parts may also occur.

◆ ABOUT LUMINOUS LIGHT

Some products use luminous light for the hands and dials. The luminous light is a safe light-storing paint (a paint which stores and emits the light) that does not contain radioactive materials.

◆ WATER-RESISTANT WATCHBAND

Some products employ leather and nylon bands on which a special treatment to resist perspiration and water absorption is provided. Please understand that the water resisting effect of this watchband can be lost depending on the periods and conditions of use.