

(E.F.S.G.I.P.)

**EFSGIP – A22**

**ANALOGUE TYPE  
Series PJU (Cal. V656)**

5-93

Printed in Japan

INSTRUCTIONS AND GUARANTEE  
FOR EUROPE / OCEANIA  
INSTRUCTIONS ET GARANTIE  
POUR L'EUROPE / OCEANIE  
INSTRUCCIONES Y GARANTIA  
PARA EUROPA / OCEANIA

GEBRAUCHSANWEISUNGEN  
UND GARANTIE FÜR EUROPA /  
OZEANIEN  
ISTRUZIONI E GARANZIA  
PER EUROPA / OCEANIA  
INSTRUÇÕES E GARANTIA PARA A  
EUROPA / OCEÂNIA



(E.S.)

**ES – A22**

**ANALOGUE TYPE  
Series PJU & PJN (Cal. V656, V657)**

**INSTRUCTIONS AND  
LIMITED THREE-YEAR WARRANTY  
INSTRUCCIONES Y  
GARANTIA LIMITADA  
POR TRES AÑOS**

3-94

Printed in Japan





(E.F.)

**EF – A22**

**ANALOGUE TYPE  
Series PJU (Cal. V656)**

**INSTRUCTIONS AND THREE-YEAR WARRANTY  
FOR CANADA  
INSTRUCTIONS ET GARANTIE TROIS ANS  
POUR CANADA**

5-93

Printed in Japan  
Imprimé au Japon



## PULSAR ANALOGUE QUARTZ WITH CHRONOGRAPH FUNCTION

Cal. V656, V657

### FEATURES

This is a multi-display analogue watch featuring a chronograph function. The measured time is indicated by the small chronograph hands that move independently of the center hands.

#### ■ TIME

Cal. V656 : Hour, minute, second and 24-hour hands.  
Cal. V657 : Hour, minute and second hands.

#### ■ CALENDAR (for Cal. V657)

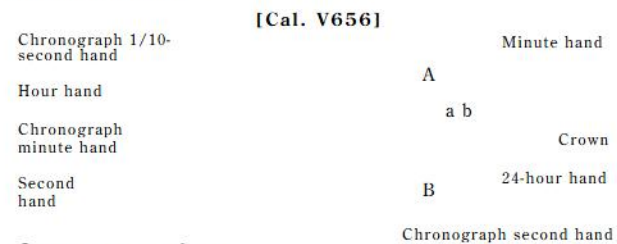
Date is displayed in numerals.

#### ■ CHRONOGRAPH

It can measure up to 60 minutes in 1/10 seconds.  
Split time measurement is also possible.

## DISPLAYS AND CROWN OPERATION

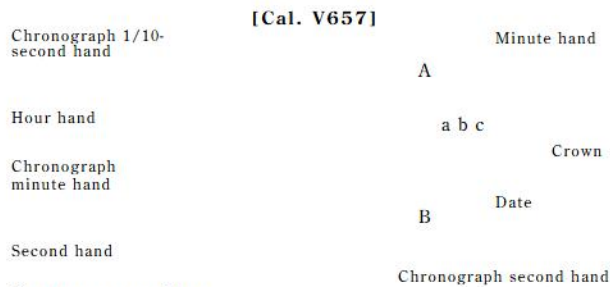
There are two buttons and a crown as indicated in the illustration below.



### Crown operation

- (a) Normal position : Free  
(b) Extended position :

- Setting the hour, minute and 24-hour hands.
- Activating the chronograph hand position adjusting function.



**Crown operation**

- (a) Normal position : Free
- (b) First click : Date setting
- (c) Second click :
- Setting the hour and minute hands.
  - Activating the chronograph hand position adjusting function.

**ADJUSTING THE CHRONOGRAPH HAND POSITION**

Before setting the time, be sure to check if the chronograph hands are in the “0” position when the chronograph is reset.

**Note:** The “0” position of the chronograph 1/10 second hand differs depending on the models.

\* Some models have the “0” position of the chronograph 1/10 second hand at 3 and 9 o'clock sides of the small dial. In that case, check if the hand is level with its both ends pointing to those “0” positions.

\* If the chronograph is in use, press the buttons in the following order to reset it, and then check if the hands return to the “0” position. (For details, refer to “CHRONOGRAPH”.)

- If the chronograph is counting : A → B
- If the chronograph is stopped : B
- If the split time is displayed : B → A → B

• If any of the chronograph hands do not return to the “0” position when the chronograph is reset, follow the procedure below to reset the hands.

[Cal. V656]

A

B Crown  
( Extended  
position )

[Cal. V657]

A

B Crown  
( Second  
click )

1. Pull out the crown all the way.
2. Press "A" repeatedly to reset the chronograph 1/10 second hand to the "0" position. Press "B" repeatedly to reset the chronograph second and minute hands to the "0" position.
  - \* The chronograph minute hand moves correspondingly with the chronograph second hand.
  - \* The hands move quickly if the respective buttons are kept pressed.
3. Push the crown back in to the normal position.

### TIME/CALENDAR SETTING

**Note:** While the crown is at the extended position (Cal. V656) or at the second click (Cal. V657), do not press any button. Otherwise, the chronograph hands will move. To reset them to the "0" position, refer to "ADJUSTING THE CHRONOGRAPH HAND POSITION".

[Cal. V656]

Second hand

[Cal. V657]

Minute hand

A Second  
hand

A Crown  
( First  
click )

B Crown  
( Extended  
position )

24-hour hand

Hour hand

( Second  
click )  
B

Date

#### **Time setting for Cal. V656**

1. Pull out the crown when the second hand is at the 12 o'clock position. The second hand will stop on the spot.
2. Turn the crown clockwise or counterclockwise to set the hour, minute and 24-hour hands to the desired time.  
\* When setting the hour hand, be sure to check that the 24-hour hand is set properly.
3. Push the crown back in to the normal position in accordance with a time signal.

#### **Time/calendar setting for Cal. V657**

1. Pull out the crown to the first click, and turn it clockwise until the previous day's date appears.  
\* Do not set the date between 9:00 p.m. and 1:00 a.m. Otherwise, the date may not change properly.
2. Pull out the crown to the second click when the second hand is at the 12 o'clock position. The second hand will stop on the spot.

3. Turn the crown clockwise until the desired date appears, and set the hour and minute hands to the desired time.  
\* When setting the hour hand, be sure to check that AM/PM is correctly set. The watch is so designed that the date changes once in 24 hours. Turn the hands past the 12 o'clock marker to determine whether the watch is set for the A.M. or P.M. period. If the date changes, the time is set for the A.M. period. If it does not change, the time is set for the P.M. period.
4. Push the crown back in to the normal position in accordance with a time signal.

**Note:** When setting the minute hand, first advance it 4 to 5 minutes ahead of the desired time and then turn it back to the exact minute.

## CHRONOGRAPH

The chronograph can measure up to 60 minutes in 1/10 seconds. The measured time is indicated by the small chronograph hands that move independently of the center hands.

**Note:** While the chronograph is counting, do not pull out the crown to set the time. Otherwise, the chronograph operation cannot be made.

### How to read the hands

Ex.) Elapsed time measured is 15 minutes and 10.6 seconds :

Chronograph  
1/10-second hand

A

Chronograph  
minute hand

B                      Crown  
                          ( Normal  
                          position)  
Chronograph second hand

- The chronograph 1/10 second scale and hand differ in design and shape depending on the models.  
\* Some models have the chronograph 1/10 second scale graduated on the upper half of the small dial and the hand which is so designed that both ends can indicate the elapsed 1/10 second. In that case, read the marker on the scale where either end of the hand points to.
- After the measurement exceeds 1 minute, the chronograph 1/10 second hand stays at the "0" position.  
When the measurement is stopped, it will move to indicate the elapsed 1/10 seconds.

### Chronograph operation

- A    1. Standard measurement
- To start        :    Press "A".
  - To stop        :    Press "A".
  - To reset to "0" :    Press "B".
- B    2. Accumulated elapsed time measurement
- To start        :    Press "A".
  - To stop        :    Press "A".
  - To restart     :    Press "A".

To stop : Press "A".  
To reset to "0" : Press "B".

3. Split time measurement

To start : Press "A".  
To measure split time : Press "B".  
To release split time : Press "B".  
To stop : Press "A".  
To reset to "0" : Press "B".

**NECESSARY OPERATION AFTER BATTERY CHANGE**

When the battery is replaced, the time information stored in the built-in IC and the time indicated by the hands do not correspond with each other. Before using the watch, therefore, be sure to reset the hands to the "0" position, following the procedure below.  
\* In case any of the hands should move improperly, follow the procedure below to adjust the hand movement.

[Cal. V656]

A

Crown  
B ( Extended  
position )

[Cal. V657]

A

Crown  
B ( Second  
click )

1. Pull out the crown all the way.
2. Keep "A" and "B" pressed at the same time for 2 seconds, and then release the buttons. The chronograph second hand turns half a circle counterclockwise and then returns where it was. The chronograph 1/10 second hand turns a full circle clockwise and stops.
3. Press "A" repeatedly to reset the chronograph 1/10 second hand to the "0" position. Press "B" repeatedly to reset the chronograph second and minute hands to the "0" position.
  - \* The "0" position of the chronograph 1/10 second hand differs depending on the models. (Some models have the "0" position of the chronograph 1/10 second hand at 3 and 9 o'clock sides of the small dial. In that case, check if the hand is level with its both ends pointing to those "0" positions.)
  - \* The chronograph minute hand moves correspondingly with the chronograph second hand.
  - \* The hands move quickly if the respective buttons are kept pressed.
4. Turn the crown clockwise or counterclockwise to set the hour and minute hands to the desired time. (For details, refer to "TIME/CALENDAR SETTING".)
5. Push the crown back in to the normal position.

#### **TO PRESERVE THE QUALITY OF YOUR WATCH**

Your watch contains a highly precise electronic circuit and a crystal oscillator, and to maintain its high accuracy you should not subject it to violent shocks or extreme temperatures.

Your watch is classified into one of the following four groups by the degree of water resistance. Please read the appropriate item below for proper use.

If your watch is water resistant, "WATER RESISTANT" is shown on the back of your watch case. If your watch is 200 m, 100 m or 50 m water resistant, it is so indicated on the dial. If your watch is non-water resistant, there is no such indication.

**Water resistant:** These watches are designed to withstand accidental contact with water, for example, splashes or rain, but should not be worn while swimming or diving.

**Water resistant (50 m/5 BAR):** These watches are suitable for swimming and can be worn in the shower, but not for diving. If the watch is exposed to salt water, rinse it in fresh water and then wipe it thoroughly dry.  
Do not press any buttons or turn the crown when the watch is wet.

**Water resistant (100 m/10 BAR, 200 m/20 BAR):** These watches are suitable for swimming or skin diving (without heavy breathing apparatus), but not for scuba diving. If the watch is exposed to salt water, rinse it in fresh water and then wipe it thoroughly dry.

Do not press any buttons or turn the crown when the watch is wet.

**Non-water resistant:** Care should be taken not to get your watch wet as water may damage the movement.

- Have your Pulsar watch checked by a PULSAR DEALER periodically to be sure that the case, buttons, crown, gasket, crystal seal and push pins remain intact.

#### **BATTERY CHANGE**

The miniature battery SEIKO SR920SW which powers your watch should last approximately 2 years. However, because the battery is inserted at the factory, its actual life once in your possession may be less than the specified period.

**Note:** If the chronograph is used for more than 60 minutes a day, battery life may be less than the specified period.