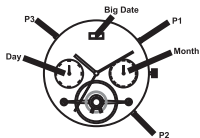


MECHANIC SERIES USER MANUAL



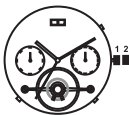
**QUANTUM**  
**THE BIG TIME**

## 2L55 Instructions Manual



Setting by Crown

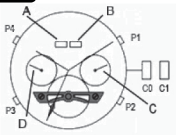
- 1: Winding [clockwise]
- 2: Time Setting [both directions]



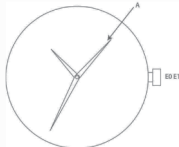
Setting by Pushers  
 P1: Date Setting  
 P2: Month Setting  
 P3: Day Setting

**Caution:**

- 1 To avoid damaging the movement, please do not press the pushers during the hours 21:00 to 03:00.
- 2 When the product has been left stationary for more than 36 hours, please wind it up manually before using it again.



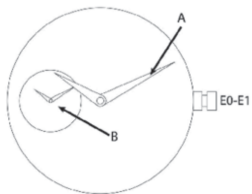
- 1) 3 hands at centre
- 2) A: year at 12H and set by P4.
- 3) B: month at 12H and set by P1
- 4) C: date hands at 3H and set by P2.
- 5) D: week hands at 9H and set by P3.
- 6) Fly wheel at 6H.
- 7) C0: normal status.
- 8) C1: time setting



- A : Hour ,Minute and Second  
 E0 : Normal Status  
 E1 : Time Setting

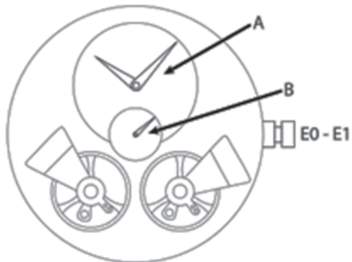
## Z2031/Z2032 Instruction Manual

- A : Hour and Minute  
(Set By E1 in Clockwise Direction)
- B : Hour and Minute  
(Set By E1 in Anticlockwise Direction)
- E0 : Normal Status
- E1 : Time setting



## S-05 Instruction Manual

- A : Hour, Minute
- B : Small Second
- E0 : Normal Status
- E1 : Time Setting





### (1)Winding the mainspring

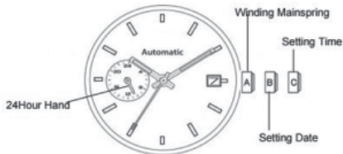
Automatic winding watch can also be hand winded by turning the crown in A position.

Wind 15-20 times clockwise until second hands starts to move naturally.

### (2)Setting the time

1. Pull the crown to B position
2. Turn the crown to set the hour and minute hands.

When the time is set, 24 hour hand at 9 o'clock moves linked with center hour hand.



## Automatic Skeleton Movement

### ◆ Display



## 2189 Mechanical(automatic) Skeleton Movement

3 hands, engraved automatic skeleton movement

Power reserve up to 36 hours

### ◆ Crown operation

		Crown position	
		N : normal	1 : 1st click
Crown	Free	Time setting	

### ◆ How to set time

- (1) Pull the crown out to the 1st click position when the second hand is at the 12 o'clock position.
- (2) Turn the crown to set the hour and minute hands.
  - 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.
- (3) Push the crown back to the normal position.

## Mechanical Skeleton movement

### ◆ Display



### LTTR001 Mechanical(automatic) Skeleton Movement

3 hands, engraved automatic skeleton movement, tourbillon look  
Power reserve up to 36 hours

### ◆ Crown operation

Crown position		
N : normal		
1 : 1st click		
Crown	Free	Time setting

### ◆ How to set time

- Pull the crown out to the 1st click position when the second hand is at the 12 o'clock position.
- Turn the crown to set the hour and minute hands.
  - 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 to the normal position.

## Automatic Skeleton Movement

### ◆ Display



## 2720 Mechanical(automatic) Skeleton Movement

3 hands, engraved mechanical skeleton movement

Power reserve up to 36 hours

### ◆ Crown operation

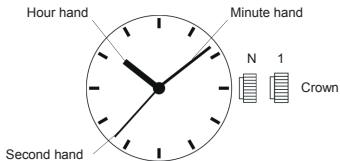
Crown position		
N : normal		
1 : 1lk click		
Crown	Free	Time setting

### ◆ How to set time

- (1) Pull the crown out to the 1st click position when the second hand is at the 12 o'clock position.
- (2) Turn the crown to set the hour and minute hands.
  - 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.
- (3) Push the crown back to the normal position.



## ◆ Display



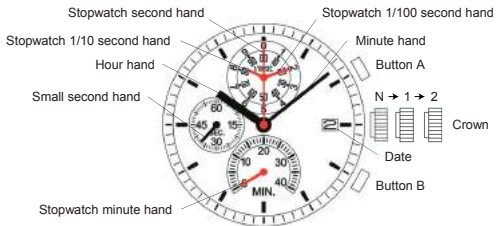
## ◆ Crown operation

Crown position		
N : normal		1 : 1st click
Crown	Free	Time setting

## ◆ How to set time

- (1) Pull the crown out to the 1st click position when the second hand is at the 12 o'clock position.
- (2) Turn the crown to set the hour and minute hands.
  - 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.
- (3) Push the crown back to the normal position.

## ◆ Display



## ◆ Crown and button operation

	Crown position		
	N : normal	1 : 1st click	2 : 2nd click
Crown	Free	Turn clockwise for date change	Time setting
Button A	Stopwatch Start Stop Restart	Stopwatch Start Stop Restart	[*1]
Button B	Stopwatch Reset Split Split release Demonstration	Stopwatch Reset Split Split release	[*1]



### [\*1] Stopwatch hand position adjustment

If the stopwatch hands are not in the "0" position, follow the procedures below to set them.

- (1) Pull the crown out to the 2nd click position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will be automatically reset.
- (2) Set the stopwatch 1/10 second and stopwatch 1/100 second hands.
 

Press the button A for 2 seconds.

  - The stopwatch 1/10 second and stopwatch 1/100 second hands turns a full round and can now be set to the correct position.

Press the button B repeatedly to set it to the "0" position.
- (3) Set the stopwatch second hand.
 

Press the button A for 2 seconds.

  - The stopwatch second hand turns a full round and can now be set to the correct position.

Press the button B repeatedly to set it to the "0" position.
- (4) Set the stopwatch minute hand.
 

Press the button A for 2 seconds.

  - The stopwatch minute hand turns a full round and can now be set to the correct position.

Press the button B repeatedly to set it to the "0" position.

Press the button A for 2 seconds here will allow you to resume the procedure again as indicated by the arrow if necessary.

- (5) Push the crown back to the normal position.

Tips : When setting the hands, the hand moves quickly if the button B is kept pressed.

### ◆ How to set time

- (1) Pull the crown out to the 2nd click position when the second hand is at the 12 o'clock position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will automatically reset the stopwatch hands to "0" position.
- (2) Turn the crown to set the hour and minute hands.
 

Take a.m./p.m. into consideration when setting the hour and minute hands to the desired time.

  - The hands be set to the time a few minutes ahead of the current time, taking into consideration the time required to adjust the stopwatch hands position if necessary.
  - 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.
- (3) Push the crown back to the normal position.

### ◆ How to set date

- (1) Pull the crown out to the 1st click position.
- (2) Turn the crown to set the date.
  - Do not set the date between 9:00 p.m. and 1:00 a.m..
- (3) Push the crown back to the normal position.

Tips : When the date change during daytime, it happens when a.m./p.m. is wrongly set. Advance the hour hand by 12 hours.



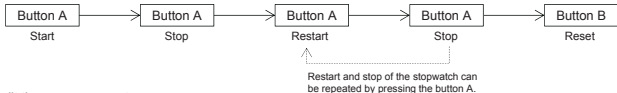
## ◆ How to use stopwatch function

- The stopwatch can measure up to 40'59"99 in 1/100 second increments.
- When the measurement reaches 120 minutes, the stopwatch automatically stops counting.

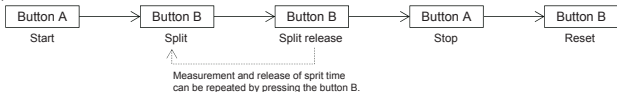
### ■ Standard measurement



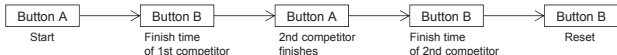
### ■ Accumulated elapsed time measurement



### ■ Split time measurement



### ■ Measurement of two competitors



- The stopwatch 1/100 second hand is capable of timing 3 minutes. (1/10 second x 1,800 times)
- The stopwatch 1/10 second hand is capable of timing 3 minutes. (1 second x 180 times)
- The stopwatch second hand is capable of timing 120 minutes. (60 seconds x 120 times)
- The stopwatch minute hand is capable of timing 120 minutes. (40 minutes x 3 times)
- After the stopwatch is started or restarted or split time is released, the stopwatch 1/10 second and stopwatch 1/100 second hands moves about 3 minutes and automatically stops at the "0" position. When the measurement is stopped or split time is measured, it moves to indicate the elapsed 1/10 and 1/100 seconds.
- Before using the stopwatch, be sure to check that the crown is set at the normal position and that the stopwatch hands are reset to the "0" position.
  - If the stopwatch hands do not return to the "0" position when the stopwatch is reset to "0", follow the procedure in "Stopwatch hand position adjustment".



### ◆ How to view the demonstration

The demonstration function allows you to view the movement of the four stopwatch hands. Each of the four stopwatch hands demonstrates high-speed movements and when the demonstration is finished, they return to the original position.

- If either the button A or B is pressed during a demonstration, the demonstration will be stopped and the stopwatch will be reset.

- (1) Reset the stopwatch.
- (2) Press the button B for 3 seconds or longer.

### ◆ Power depletion warning function

When the battery nears its end, the small second hand moves at two-second intervals instead of the normal one-second intervals. In that case, have the battery replaced with a new one as soon as possible.

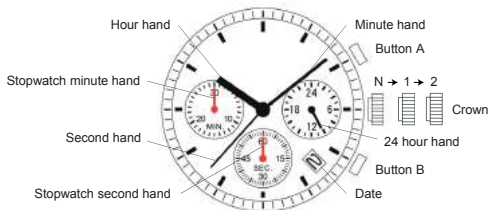
- The watch remains accurate while the small second hand is moving at two-second intervals.

### ◆ System reset

When an abnormal display appears, reset the built-in integrated circuit.

- (1) Pull the crown out to the 2nd click position.
- (2) Press the buttons A and B at the same time for longer than 2 seconds.
- (3) Push the crown back to the normal position.

## ◆ Display



## ◆ Crown and button operation

	Crown position		
	N : normal	1 : 1st click	2 : 2nd click
Crown	Free	Turn counterclockwise for date change	Time setting
Button A	Stopwatch Start Stop Restart	Stopwatch Start Stop Restart	Stopwatch hand position adjustment (clockwise)
Button B	Stopwatch Reset Split Split release	Stopwatch Reset Split Split release	Stopwatch hand position adjustment (counterclockwise)



## ◆ How to set time

- (1) Pull the crown out to the 2nd click position when the second hand is at the 12 o'clock position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will automatically reset the stopwatch hands to "0" position.
- (2) Turn the crown to set the hour and minute hands.  
Take a.m./p.m. into consideration when setting the hour and minute hands to the desired time.
  - The 24 hour hand moves correspondingly with the hour hand.
  - When setting the hour hand, check that the 24 hour hand is correctly set.
  - 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.
- (3) Push the crown back to the normal position.

## ◆ How to set date

- (1) Pull the crown out to the 1st click position.
- (2) Turn the crown to set the date.
  - Do not set the date between 9:00 p.m. and 1:00 a.m..
- (3) Push the crown back to the normal position.

Tips : When the date change during daytime, it happens when a.m./p.m. is wrongly set. Advance the hour hand by 12 hours.

## ◆ How to use stopwatch function

- The stopwatch can measure up to 29'59" in one-second increments.
- When the measurement reaches 30 minutes, the stopwatch automatically stops counting.

### ■ Standard measurement



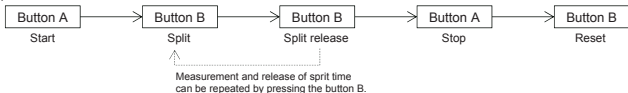
### ■ Accumulated elapsed time measurement



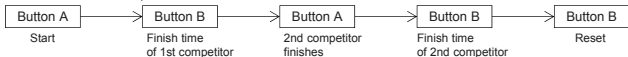
Restart and stop of the stopwatch can be repeated by pressing the button A.



### ■ Split time measurement



### ■ Measurement of two competitors



- The stopwatch second hand is capable of timing 30 minutes. (60 seconds x 30 times)
- The stopwatch minute hand is capable of timing 30 minutes.
- Before using the stopwatch, be sure to check that the crown is set at the normal position and that the stopwatch hands are reset to the "0" position.
  - If the stopwatch hands do not return to the "0" position when the stopwatch is reset to "0", follow the procedure in "Stopwatch hand position adjustment".

## ◆ Stopwatch hand position adjustment

If the stopwatch hands are not in the "0" position, follow the procedures below to set them.

- (1) Pull the crown out to the 2nd click position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will be automatically reset.
- (2) Press the button A or B to set the stopwatch hands to the "0" position.  
 The movements of the stopwatch minute hand and the stopwatch second hand are interlocked. To set the stopwatch minute hand to the "0" position, continue to move the stopwatch second hand until the stopwatch minute hand reaches the "0" position.
  - The stopwatch hands move quickly if the button A or B is kept pressed.
- (3) Push the crown back to the normal position.

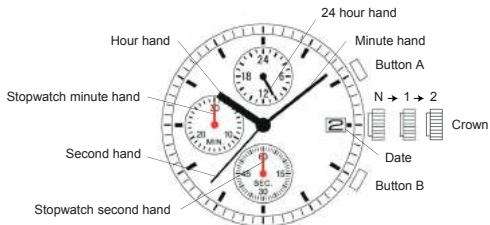
## ◆ Power depletion warning function

When the battery nears its end, the second hand moves at two-second intervals instead of the normal one-second intervals. In that case, have the battery replaced with a new one as soon as possible.

- The watch remains accurate while the second hand is moving at two-second intervals.
- When the second hand moves at two-second intervals, the stopwatch does not operate. If the second hand starts to move at two-second intervals while the stopwatch is measuring, the stopwatch measurement is reset and the stopwatch hands return to the "0" position.



## ◆ Display



## ◆ Crown and button operation

	Crown position		
	N : normal	1 : 1st click	2 : 2nd click
Crown	Free	Turn counterclockwise for date change	Time setting
Button A	Stopwatch Start Stop Restart	Stopwatch Start Stop Restart	Stopwatch hand position adjustment (clockwise)
Button B	Stopwatch Reset Split Split release	Stopwatch Reset Split Split release	Stopwatch hand position adjustment (counterclockwise)



## ◆ How to set time

- Pull the crown out to the 2nd click position when the second hand is at the 12 o'clock position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will automatically reset the stopwatch hands to "0" position.
- Turn the crown to set the hour and minute hands.  
Take a.m./p.m. into consideration when setting the hour and minute hands to the desired time.
  - The 24 hour hand moves correspondingly with the hour hand.
  - When setting the hour hand, check that the 24 hour hand is correctly set.
  - 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 to the normal position.

## ◆ How to set date

- Pull the crown out to the 1st click position.
- Turn the crown to set the date.
  - Do not set the date between 9:00 p.m. and 1:00 a.m..
- Push the crown back to the normal position.

Tips : When the date change during daytime, it happens when a.m./p.m. is wrongly set. Advance the hour hand by 12 hours.

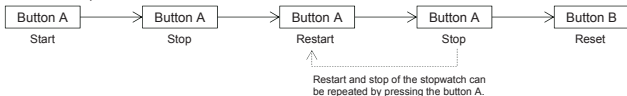
## ◆ How to use stopwatch function

- The stopwatch can measure up to 29'59" in one-second increments.
- When the measurement reaches 30 minutes, the stopwatch automatically stops counting.

### ■ Standard measurement

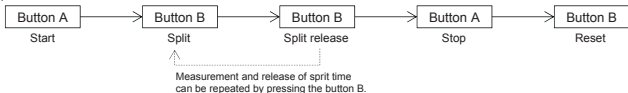


### ■ Accumulated elapsed time measurement

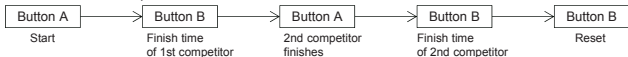




### ■ Split time measurement



### ■ Measurement of two competitors



- The stopwatch second hand is capable of timing 30 minutes. (60 seconds x 30 times)
- The stopwatch minute hand is capable of timing 30 minutes.
- Before using the stopwatch, be sure to check that the crown is set at the normal position and that the stopwatch hands are reset to the "0" position.
  - If the stopwatch hands do not return to the "0" position when the stopwatch is reset to "0", follow the procedure in "Stopwatch hand position adjustment".

## ◆ Stopwatch hand position adjustment

If the stopwatch hands are not in the "0" position, follow the procedures below to set them.

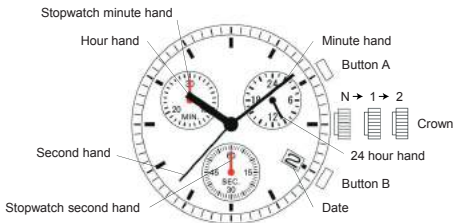
- (1) Pull the crown out to the 2nd click position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will be automatically reset.
- (2) Press the button A or B to set the stopwatch hands to the "0" position.  
 The movements of the stopwatch minute hand and the stopwatch second hand are interlocked. To set the stopwatch minute hand to the "0" position, continue to move the stopwatch second hand until the stopwatch minute hand reaches the "0" position.
  - The stopwatch hands move quickly if the button A or B is kept pressed.
- (3) Push the crown back to the normal position.

## ◆ Power depletion warning function

When the battery nears its end, the second hand moves at two-second intervals instead of the normal one-second intervals. In that case, have the battery replaced with a new one as soon as possible.

- The watch remains accurate while the second hand is moving at two-second intervals.
- When the second hand moves at two-second intervals, the stopwatch does not operate. If the second hand starts to move at two-second intervals while the stopwatch is measuring, the stopwatch measurement is reset and the stopwatch hands return to the "0" position.

## ◆ Display



## ◆ Crown and button operation

	Crown position		
	N : normal	1 : 1st click	2 : 2nd click
Crown	Free	Turn counterclockwise for date change	Time setting
Button A	Stopwatch Start Stop Restart	Stopwatch Start Stop Restart	Stopwatch hand position adjustment (clockwise)
Button B	Stopwatch Reset Split Split release	Stopwatch Reset Split Split release	Stopwatch hand position adjustment (counterclockwise)



## ◆ How to set time

- Pull the crown out to the 2nd click position when the second hand is at the 12 o'clock position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will automatically reset the stopwatch hands to "0" position.
- Turn the crown to set the hour and minute hands.  
Take a.m./p.m. into consideration when setting the hour and minute hands to the desired time.
  - The 24 hour hand moves correspondingly with the hour hand.
  - When setting the hour hand, check that the 24 hour hand is correctly set.
  - 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 to the normal position.

## ◆ How to set date

- Pull the crown out to the 1st click position.
- Turn the crown to set the date.
  - Do not set the date between 9:00 p.m. and 1:00 a.m..
- Push the crown back to the normal position.

Tips : When the date change during daytime, it happens when a.m./p.m. is wrongly set. Advance the hour hand by 12 hours.

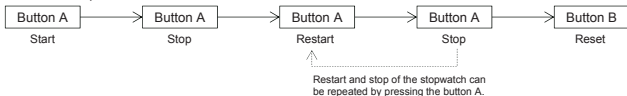
## ◆ How to use stopwatch function

- The stopwatch can measure up to 29'59" in one-second increments.
- When the measurement reaches 30 minutes, the stopwatch automatically stops counting.

### ■ Standard measurement

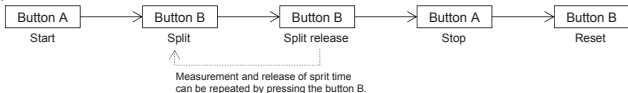


### ■ Accumulated elapsed time measurement

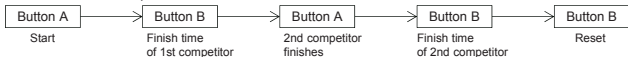




### ■ Split time measurement



### ■ Measurement of two competitors



- The stopwatch second hand is capable of timing 30 minutes. (60 seconds x 30 times)
- The stopwatch minute hand is capable of timing 30 minutes.
- Before using the stopwatch, be sure to check that the crown is set at the normal position and that the stopwatch hands are reset to the "0" position.
  - If the stopwatch hands do not return to the "0" position when the stopwatch is reset to "0", follow the procedure in "Stopwatch hand position adjustment".

## ◆ Stopwatch hand position adjustment

If the stopwatch hands are not in the "0" position, follow the procedures below to set them.

- (1) Pull the crown out to the 2nd click position.
  - When the stopwatch is measuring, if the crown is pulled out to the 2nd click position, it will be automatically reset.
- (2) Press the button A or B to set the stopwatch hands to the "0" position.  
 The movements of the stopwatch minute hand and the stopwatch second hand are interlocked. To set the stopwatch minute hand to the "0" position, continue to move the stopwatch second hand until the stopwatch minute hand reaches the "0" position.
  - The stopwatch hands move quickly if the button A or B is kept pressed.
- (3) Push the crown back to the normal position.

## ◆ Power depletion warning function

When the battery nears its end, the second hand moves at two-second intervals instead of the normal one-second intervals. In that case, have the battery replaced with a new one as soon as possible.

- The watch remains accurate while the second hand is moving at two-second intervals.
- When the second hand moves at two-second intervals, the stopwatch does not operate. If the second hand starts to move at two-second intervals while the stopwatch is measuring, the stopwatch measurement is reset and the stopwatch hands return to the "0" position.

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# QUANTUM

## THE BIG TIME

