

# Cal. 8218 / 8219

# AUTOMATIC & MANUAL WINDING MOVEMENT WITH DATE





# **Basic specification**

Calibre	8218	8219
Ligne	11-1/2	
Overall diameter	Ф26.0mm	
Case fitting diameter	Ф25.6mm	
Total height	5.67mm	
Small second	0	0
24 Hour Hand	N/A	0
Date	0	0
Vibration frequency	21600 vibrations per hour	
Jewels	21 Jewels	

#### **Function**

Automatic & manual winding

Display by means of hands: hour, minute, small second, 24H(8219).

Date calendar

Shock-absorber for balance staff

#### Technical characteristics —

**Hands fitting force** 

Second hand Max. 30N Minute hand Max. 50N Hour hand Max. 50N

Lift angle 49°

Casing Non-corresponding to "Divers' watches" defined by ISO6425

# Time performance

Accuracy	-20∼+40 seconds/day
Posture difference	Under 50 seconds/ day
Running time	More than 40 hours

\*\*Accuracy of the mechanical watch is different from the daily rate of the quartz watch and the accuracy will change maximum of several ten seconds during rewinding the spring, then the accuracy of the half winding condition will be different from that of full winding condition.

## <Time performance measurement condition>

#### Accuracy

Measure within lapse of  $10 \sim 60$  minutes from full winding.

#### Posture difference

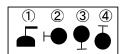
Measure accuracy in 4 different postures shown on the right picture within lapse of 10  $\sim$  60 minutes from full winding.

\*\*Direction of 4 postures ①Date Dial side Up ②6 o'clock side up ③9 o'clock side up ④3 o'clock side up



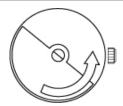
Measure the running time from full winding.

XThe mainspring becomes fully winded by rotating the ratchet wheel 7.5 times (turning the crown 40 times).



#### Automatic winding structure-

Winding direction: Counter-clockwise (seeing from case back side)



# **Operating method**

# For 8218 / 8219

# (1) Winding the Mainspring

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

Wind 15 ~ 20 times clockwise. It will start to move naturally after shaking slightly.

#### (2)Setting the Time

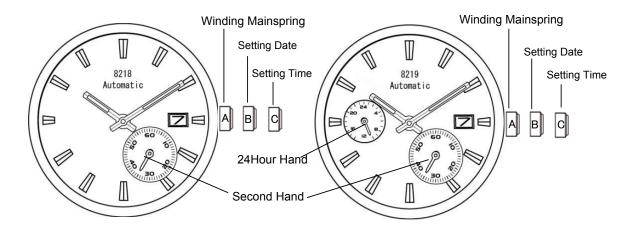
- 1. Pull the crown to "C" position.
- 2. Turn the crown to set the hour and minute hands.

# (3)Setting the Date

- 1. Pull the crown to "B" position.
- 2. Turn the crown counter-clockwise to set the date.
- \*If the date is set between the hours of around 9:00 PM and 1:00 AM, the date may not change on the following day.
- 3. After the date has been set, push the crown back to the normal position.

# For 8219

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

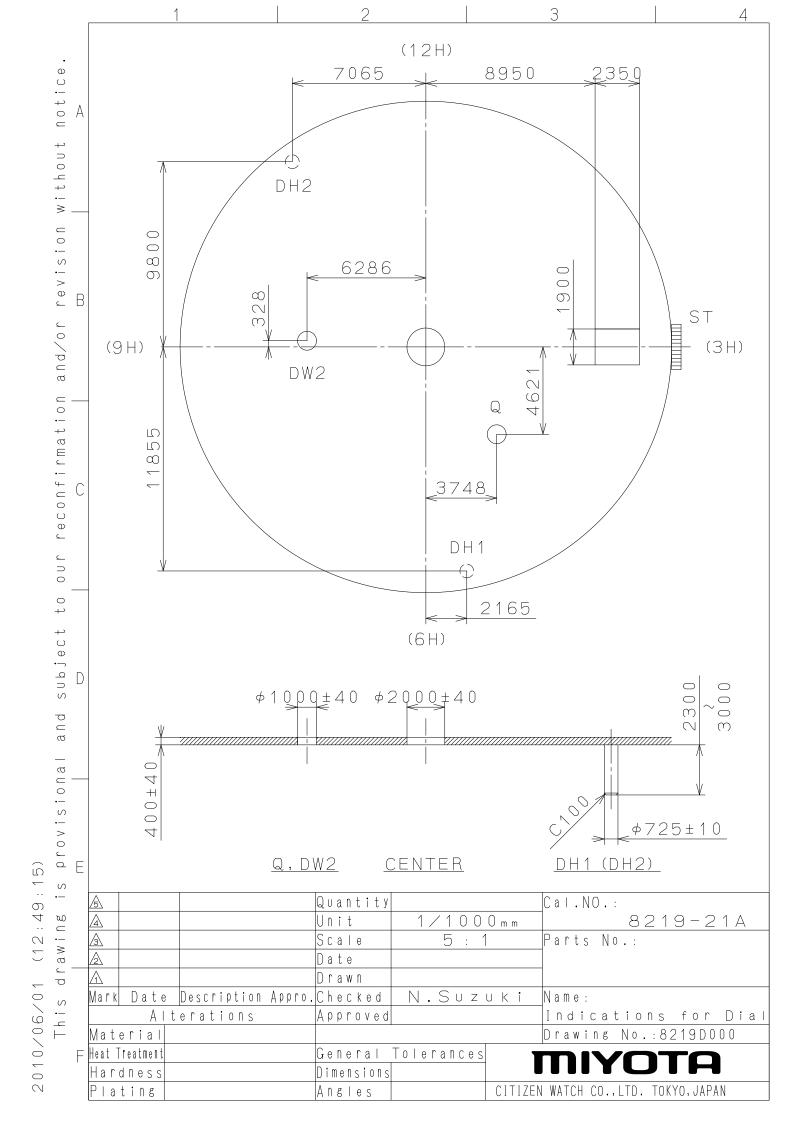


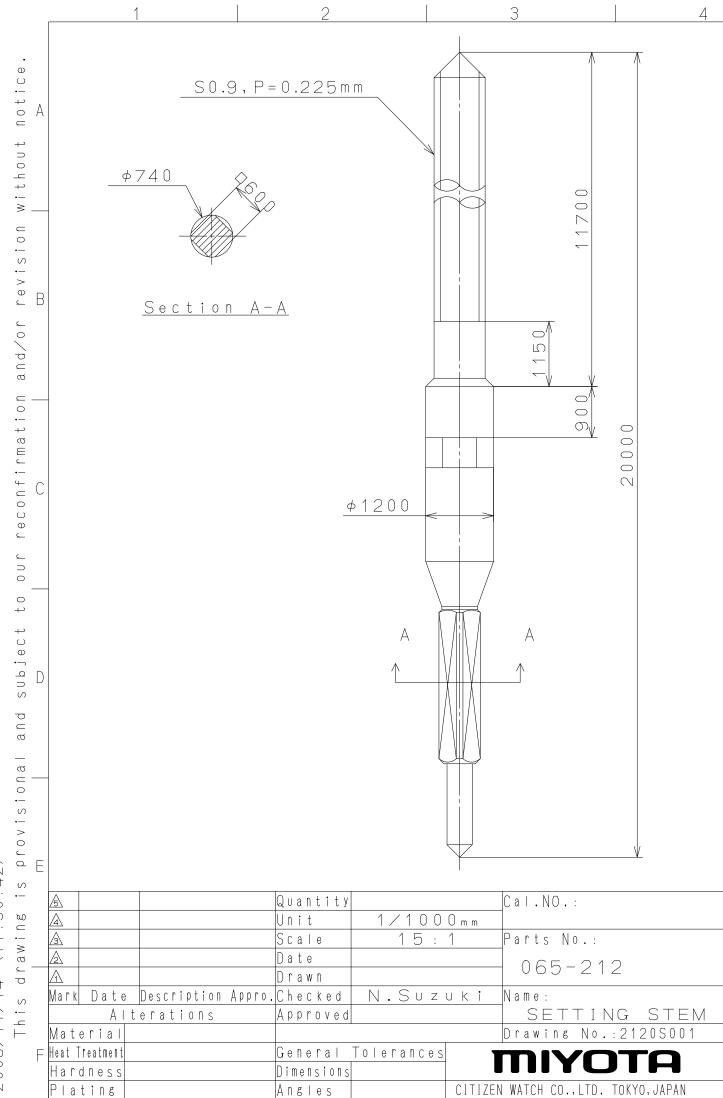
# **Separated parts**

Winding Stem	065-212 ×1
Movement Holder	500-710 ×1
Screw	929-610 ×2

These specifications might be changed without prior notice.

CITIZEN WATCH CO., LTD.





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