

## Cal. 8245 / 8247

AUTOMATIC & MANUAL WINDING MOVEMENT



### Basic specification

Calibre	8245	8247
Ligne	11-1/2"	
Overall diameter	Φ26.0mm	
Case fitting diameter	Φ25.6mm	
Total height	5.67mm	
Small second	○	○
24 Hour Hand	N/A	○
Vibration frequency	21600 vibrations per hour	
Jewels	21 Jewels	

### Function

Automatic & manual winding

Display by means of hands: hour, minute, small second, 24H(8247).

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>

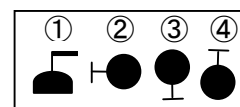
#### Accuracy

Measure within lapse of 10 ~ 60 minutes from full winding.

#### Posture difference

Measure accuracy in 4 different postures shown on the right picture within lapse of 10 ~ 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



#### Running time

Measure the running time from full winding.

※The mainspring becomes fully wound 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 8245 / 8247

#### (1) Winding the Mainspring

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

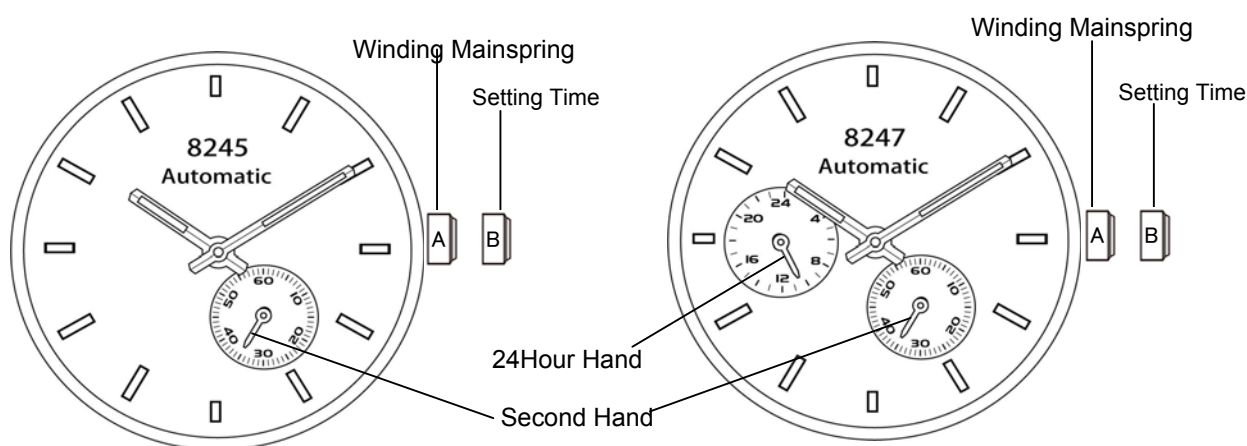
Wind 15 ~ 20 times clockwise. It will start to move naturally after shaking slightly.

#### (2) Setting the Time

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

### For 8247

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



## Separated parts

Winding stem	065-212 x 1
Screw for dial fixing	929-610 x 2
Movement holder	500-710 x 1

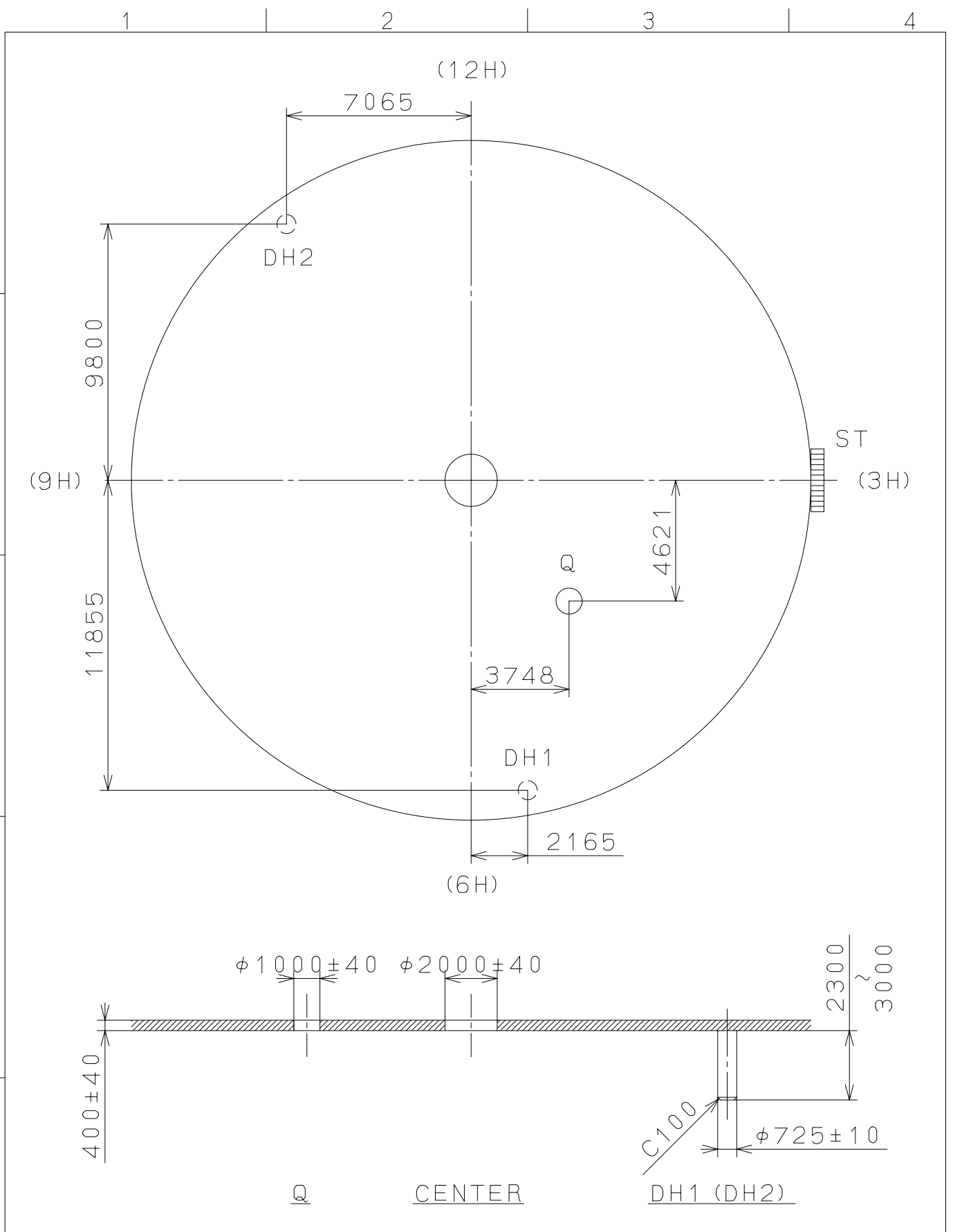
These specifications might be changed without prior notice.

**CITIZEN WATCH CO., LTD.**



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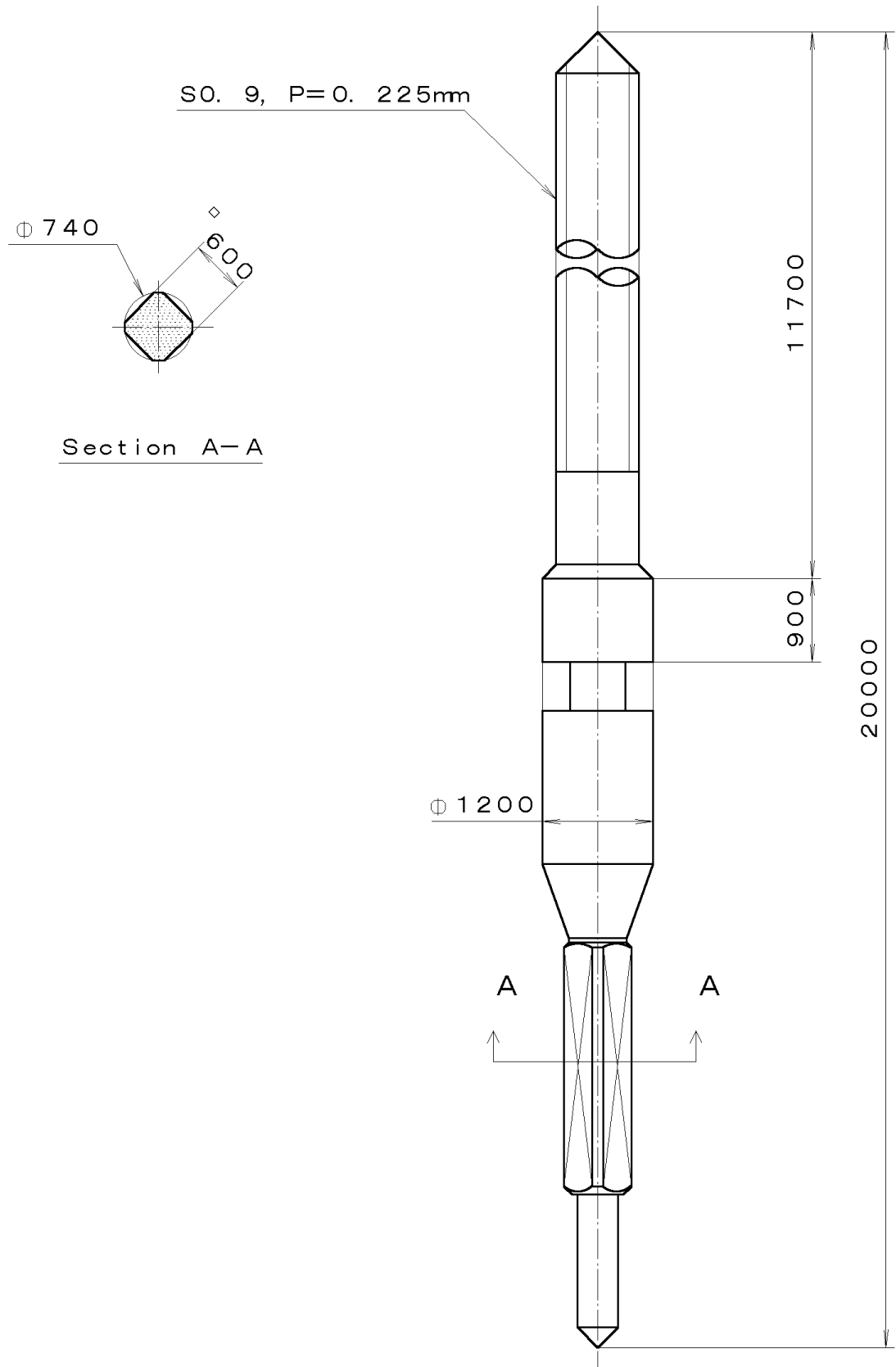
This drawing is provisional and subject to our reconfirmation and/or revision without notice.



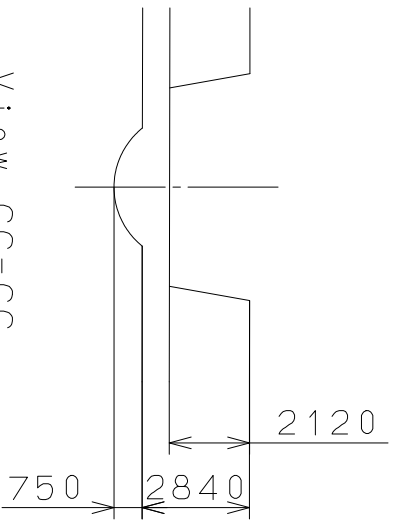
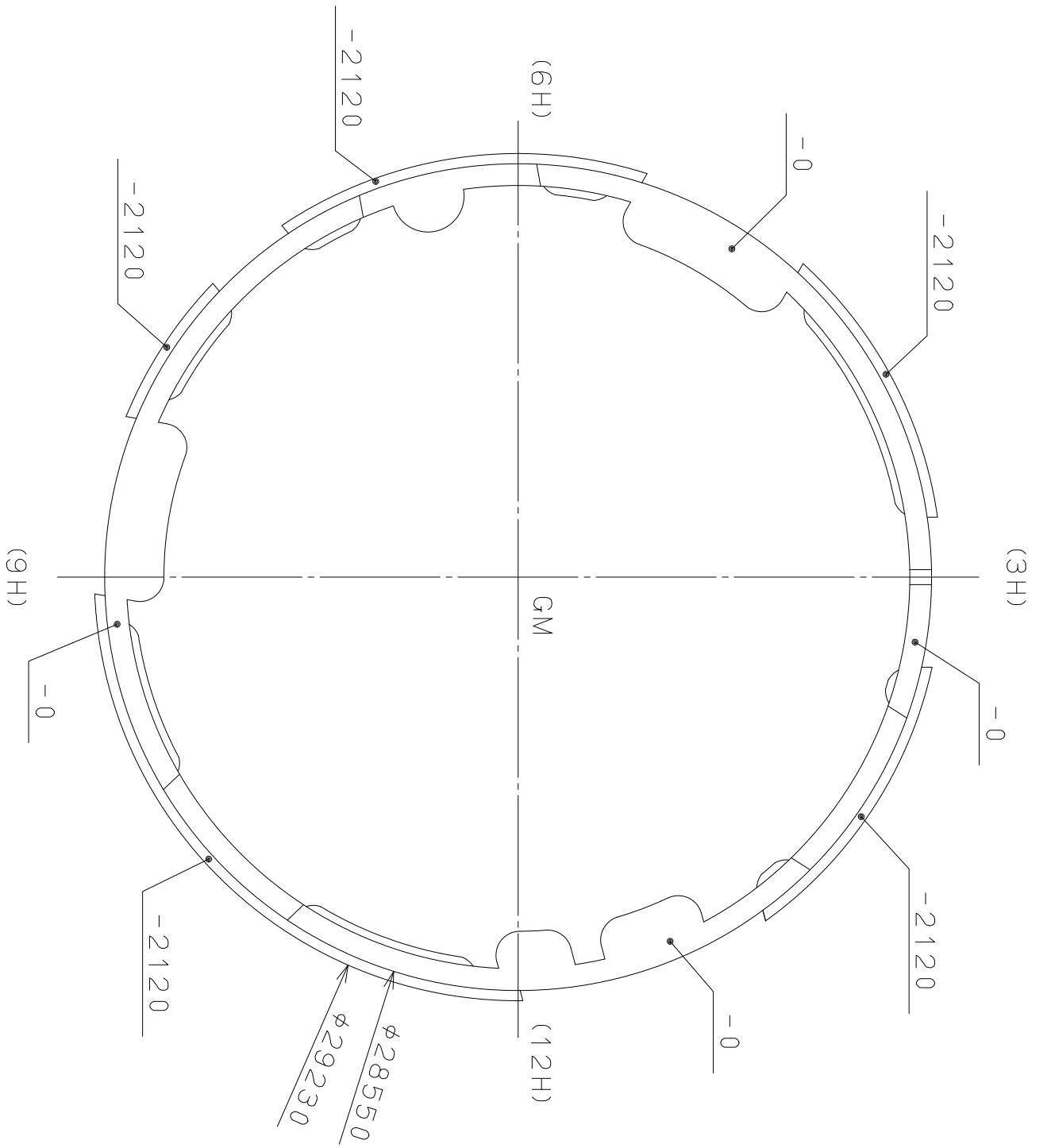
△			Quantity		Cal.NO.:
△			Unit	1/1000mm	8245-21A
△			Scale	5:1	Parts No.:
△			Date		
△			Drawn		
Mark	Date	Description	Appr.	Checked	Name:
		Alterations	Approved	N. Suzuki	Indications for Dial
Material					Drawing No.:8245D000
Heat Treatment				General Tolerances	<b>MIYOTA</b>
Hardness				Dimensions	
Plating				Angles	
					CITIZEN WATCH CO.,LTD. TOKYO,JAPAN

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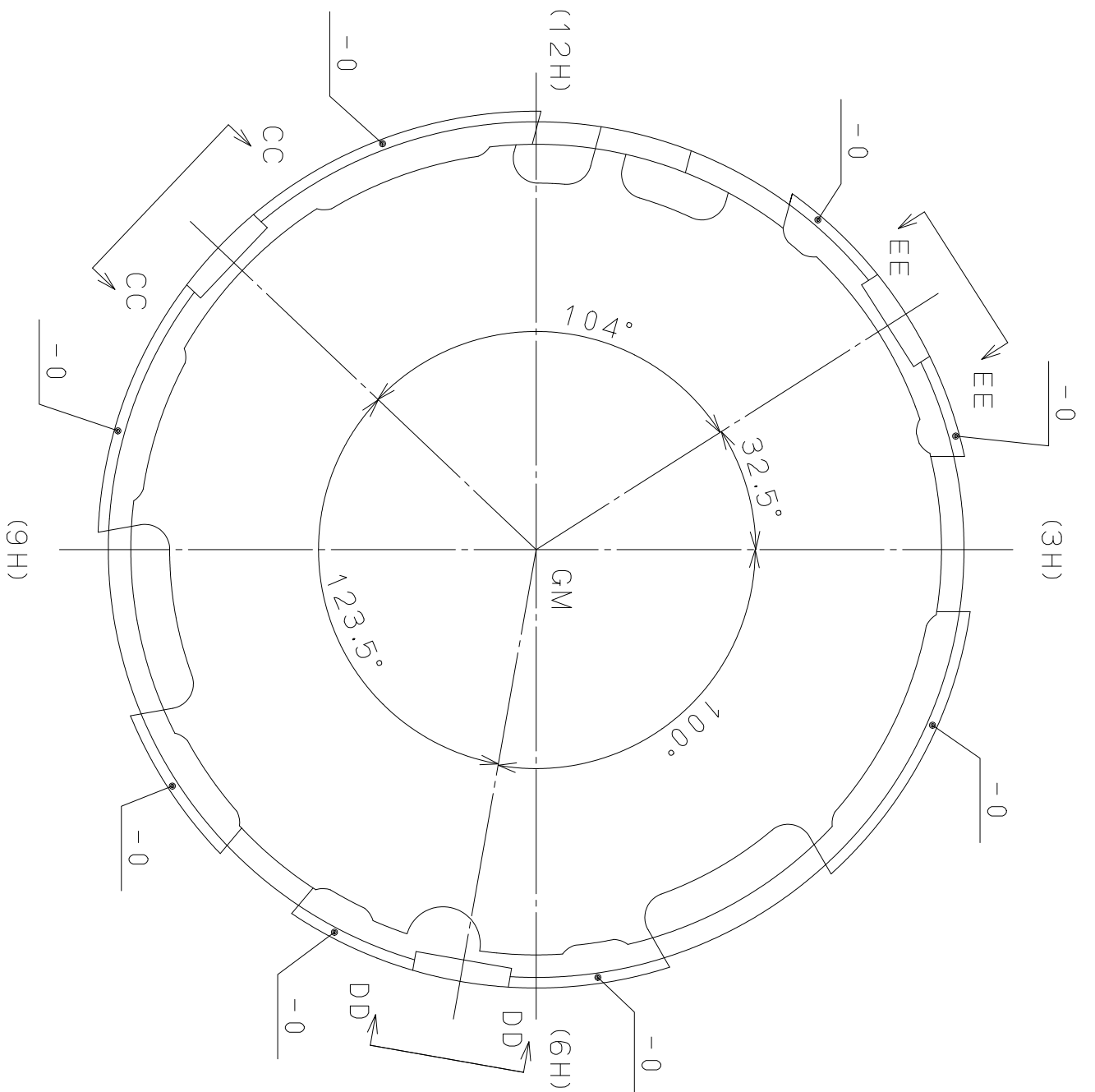
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7			Quantity		Cal. No. :
6			Unit	1/1000 mm	
5			Scale	15:1	Parts:
4			Date		065-212
3			Drawn		
2			Checked	T. Hiruta	Name:
1			Approved		SETTING STEM
Material					Drawing No. : 2120S000
Heat Treatment			General Tolerances		<b>CITIZEN</b> WATCH CO.,LTD. TOKYO, JAPAN
Hardness			Dimensions		
Plating			Angles		



View CC-CC  
DD-DD, EE-EE



Quantity	1/1000 mm	Cal. NO.:	
Unit	5 : 1	Parts No.:	500-710
Scale	Drawn	Name:	Casings Holder
Date	Checked	N. Suzuki	Drawing No.: 8200E002
Date	Approved		
Drawn			
Checked			
Approved			
Material	General Tolerances	<b>MIYOTA</b> CITIZEN WATCH CO., LTD. TOKYO, JAPAN	
Heat Treatment	Dimensions		
Hardness	Angles		
Plating			