MIYOTA

Cal. 8218 / 8219

AUTOMATIC & MANUAL WINDING MOVEMENT WITH DATE

Basic specification

Calibre	8218	8219
Ligne	11-1/2	
Overall diameter	Φ26.0mm	
Case fitting diameter	Φ25.6mm	
Total height	5.67mm	
Small second	○	○
24 Hour Hand	N/A	○
Date	○	○
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

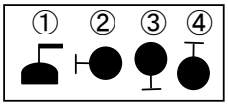
Accuracy	-20～+40 seconds/day
Posture difference	Under 50 seconds/ day
Running time	More than 40 hours

※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 10～60 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.

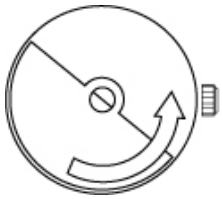


※Direction of 4 postures ①Date Dial side Up ②6 o'clock side up ③9 o'clock side up ④3 o'clock side up

Running time
Measure the running time from full winding.
※The mainspring becomes fully 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

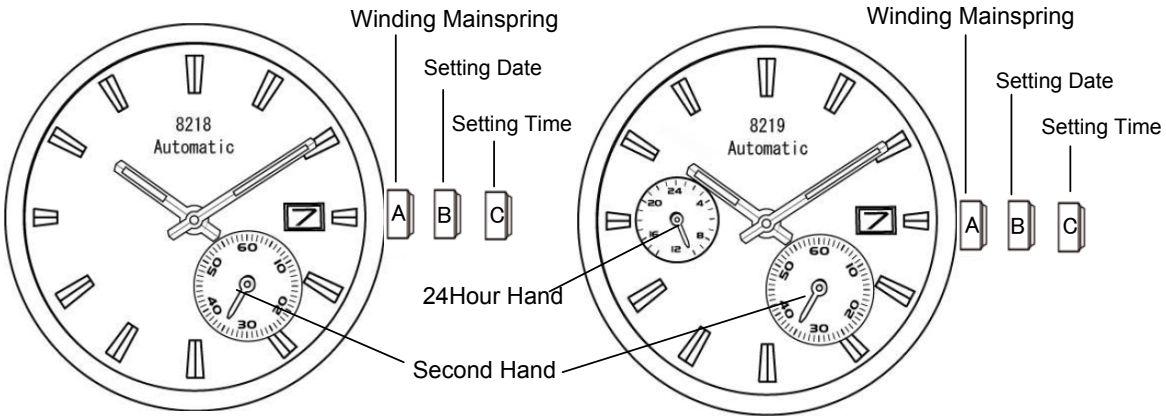
1. Pull the crown to "C" position.
2. Turn the crown to set the hour and minute hands.

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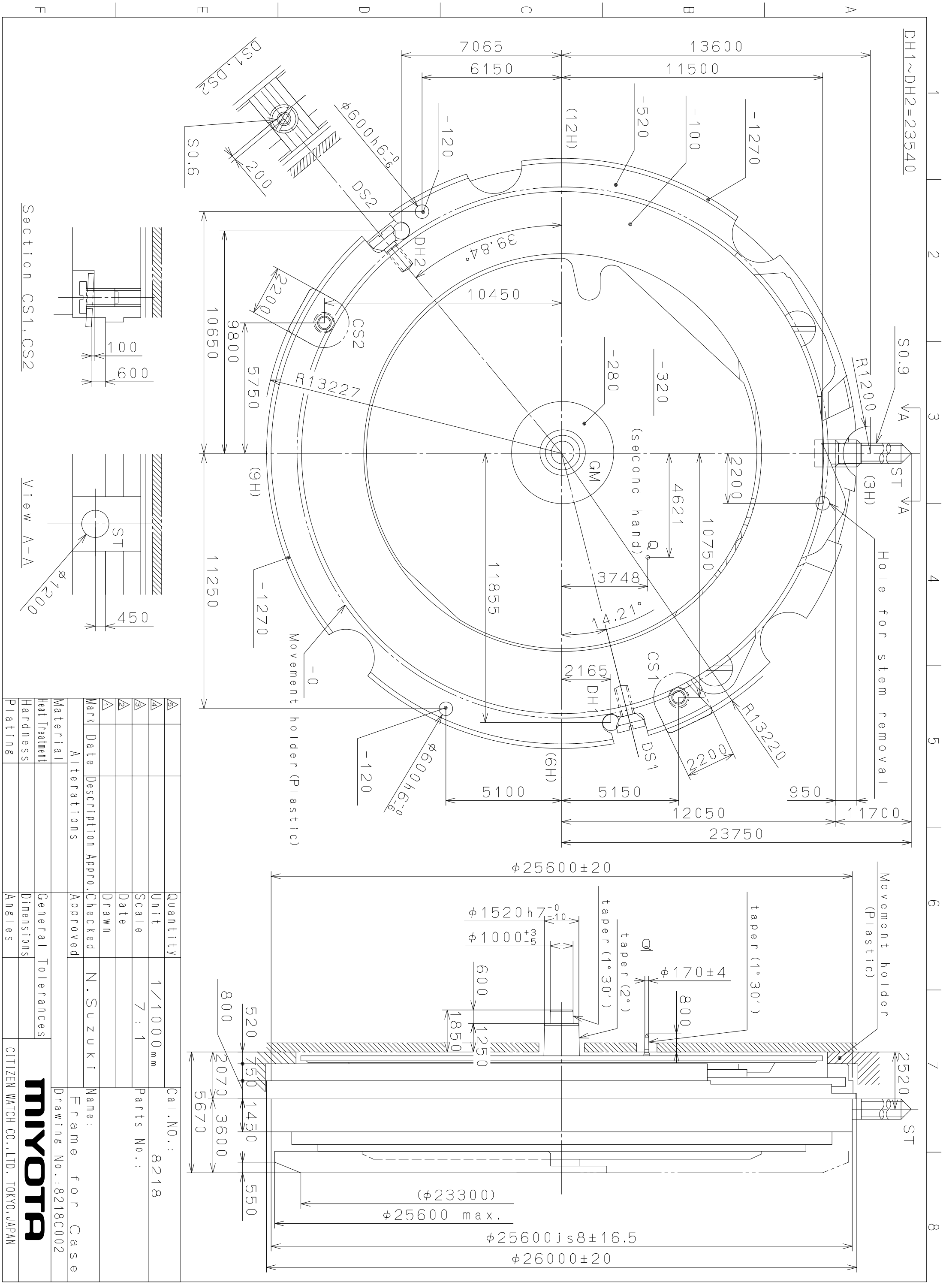
This drawing is provisional and subject to our reconfirmation and/or revision without notice.



Mark	Date	Description Appro.	Checked	Approved	Drawn	Date
5						
4						
3						
2						
1						

Alterations

Material	
Heat Treatment	
Hardness	
Plating	
General Tolerances	
Dimensions	
Angles	

Quantity	
Unit	1/1000mm
Scale	7:1
Date	
Drawn	
Checked	N.Suzuki
Approved	

Cal.NO.: 8218

Parts No.:

Name: Frame for Case

Drawing No.:8218C002

MIYOTA

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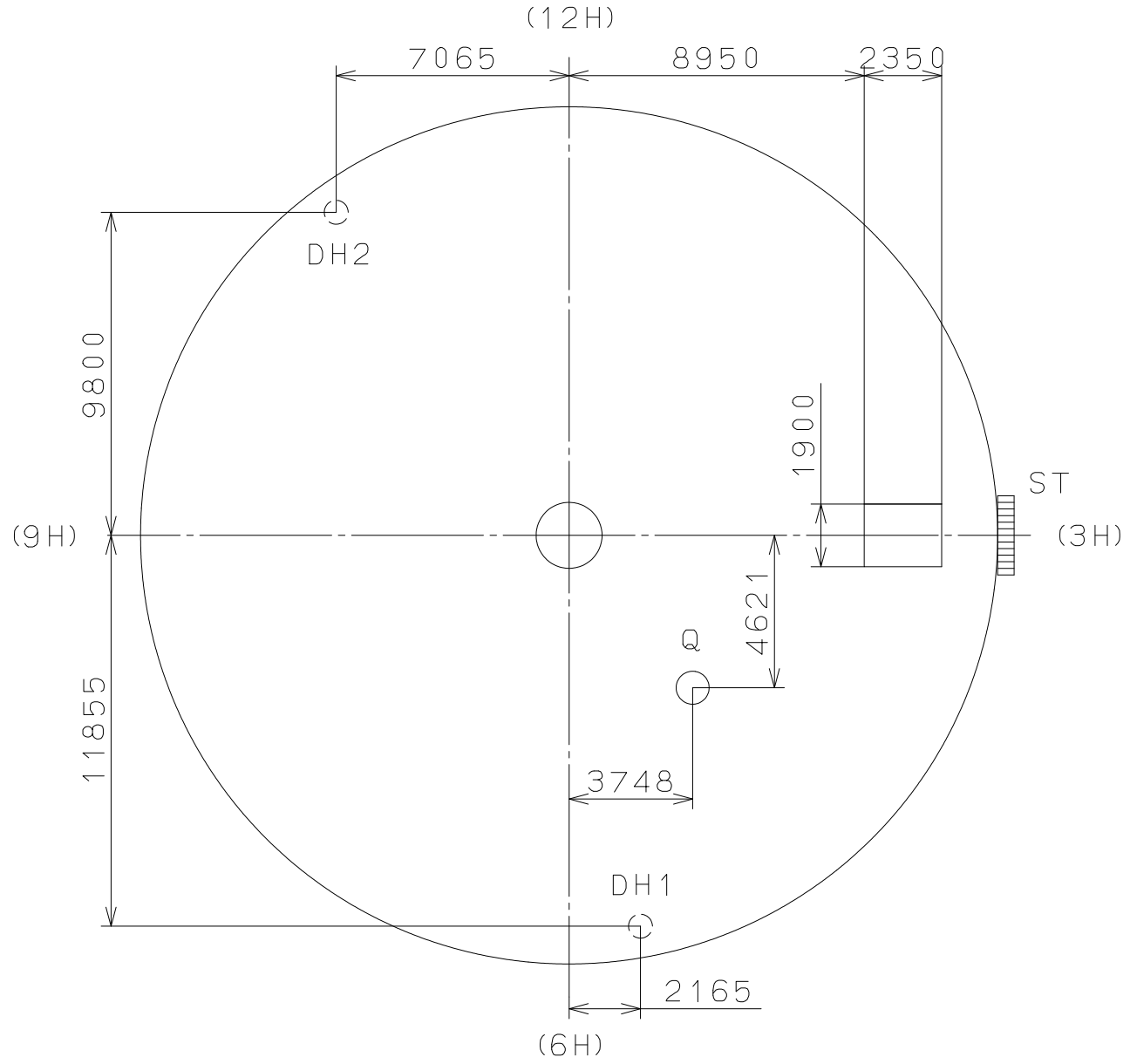
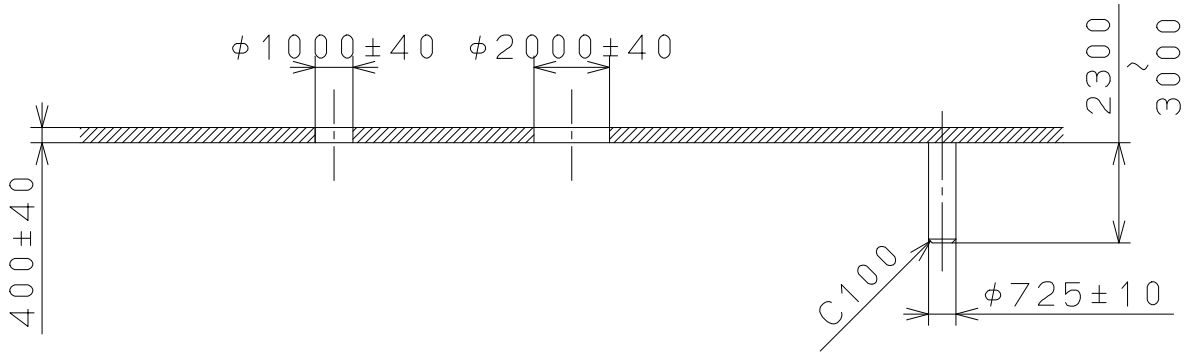
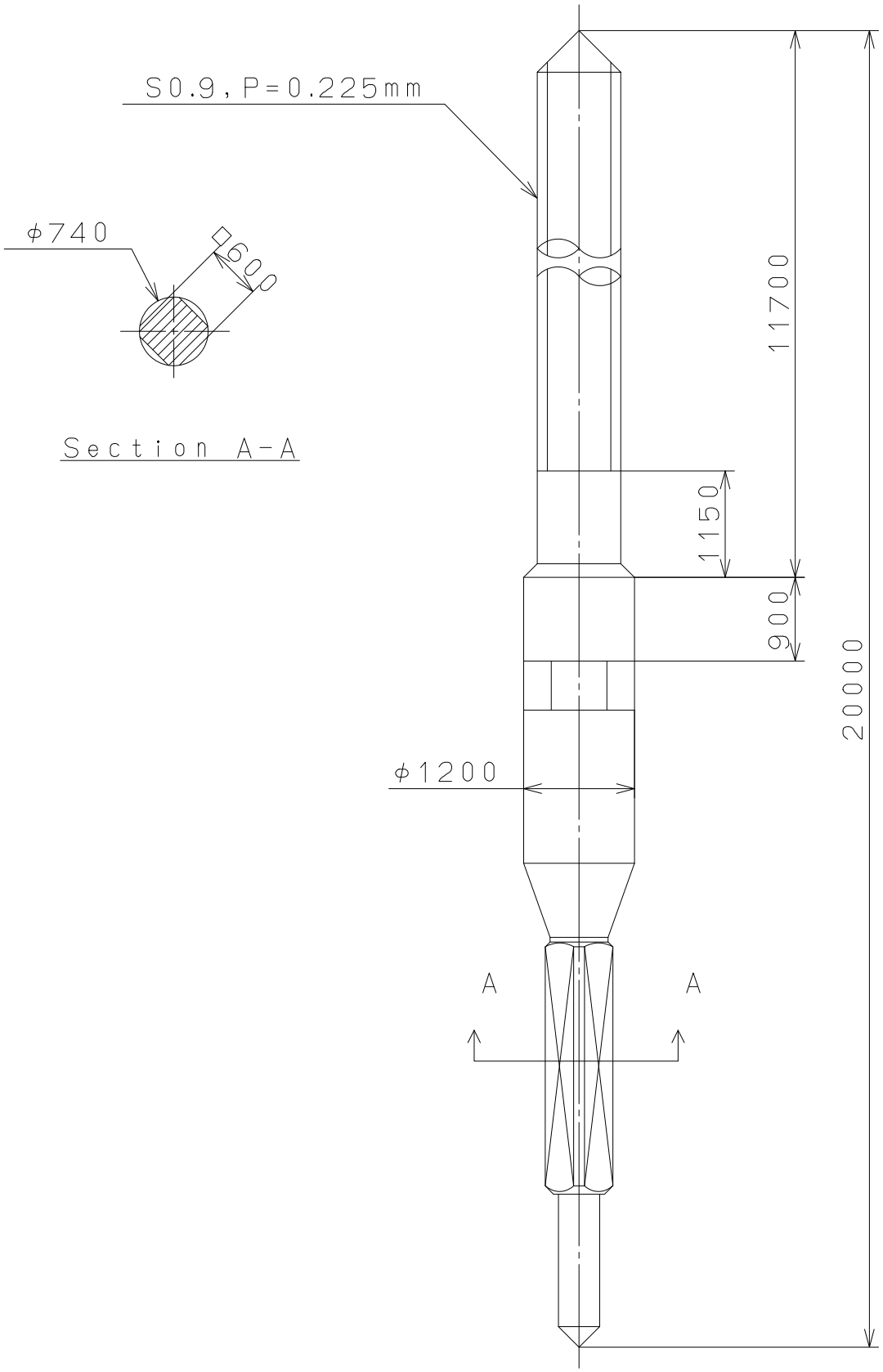




Q CENTER DH1 (DH2)

⑤			Quantity		Cal.NO.: 8218-21A
④			Unit	1/1000mm	
③			Scale	5 : 1	Parts No.:
②			Date		
①			Drawn		
Mark	Date	Description Appro.	Checked	N.Suzuki	Name: Indications for Dial
Alterations			Approved		
Material					Drawing No.:8218D000
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		
Plating			Angles		CITIZEN WATCH CO.,LTD. TOKYO,JAPAN



⑤			Quantity		Cal.NO.:
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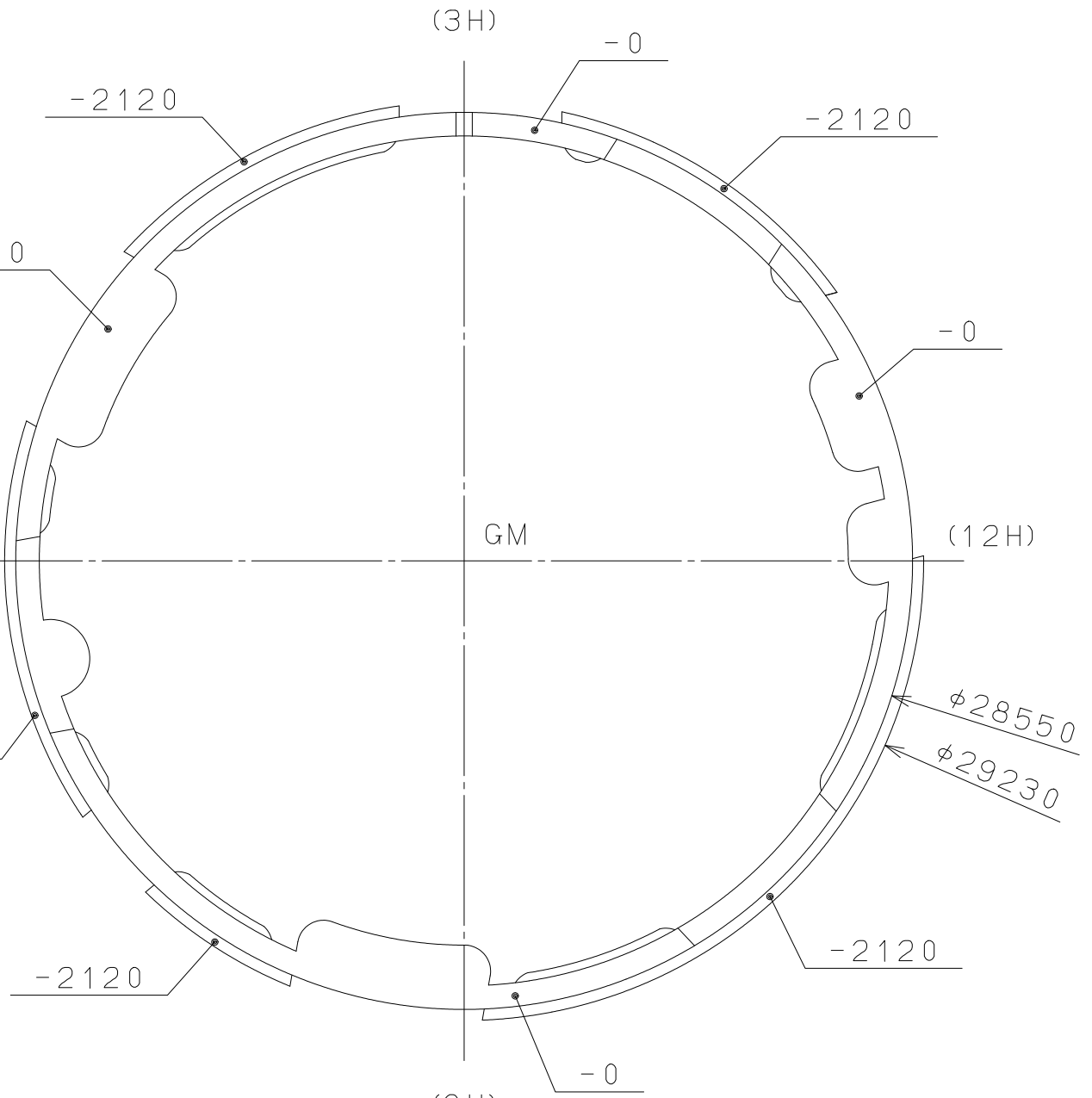
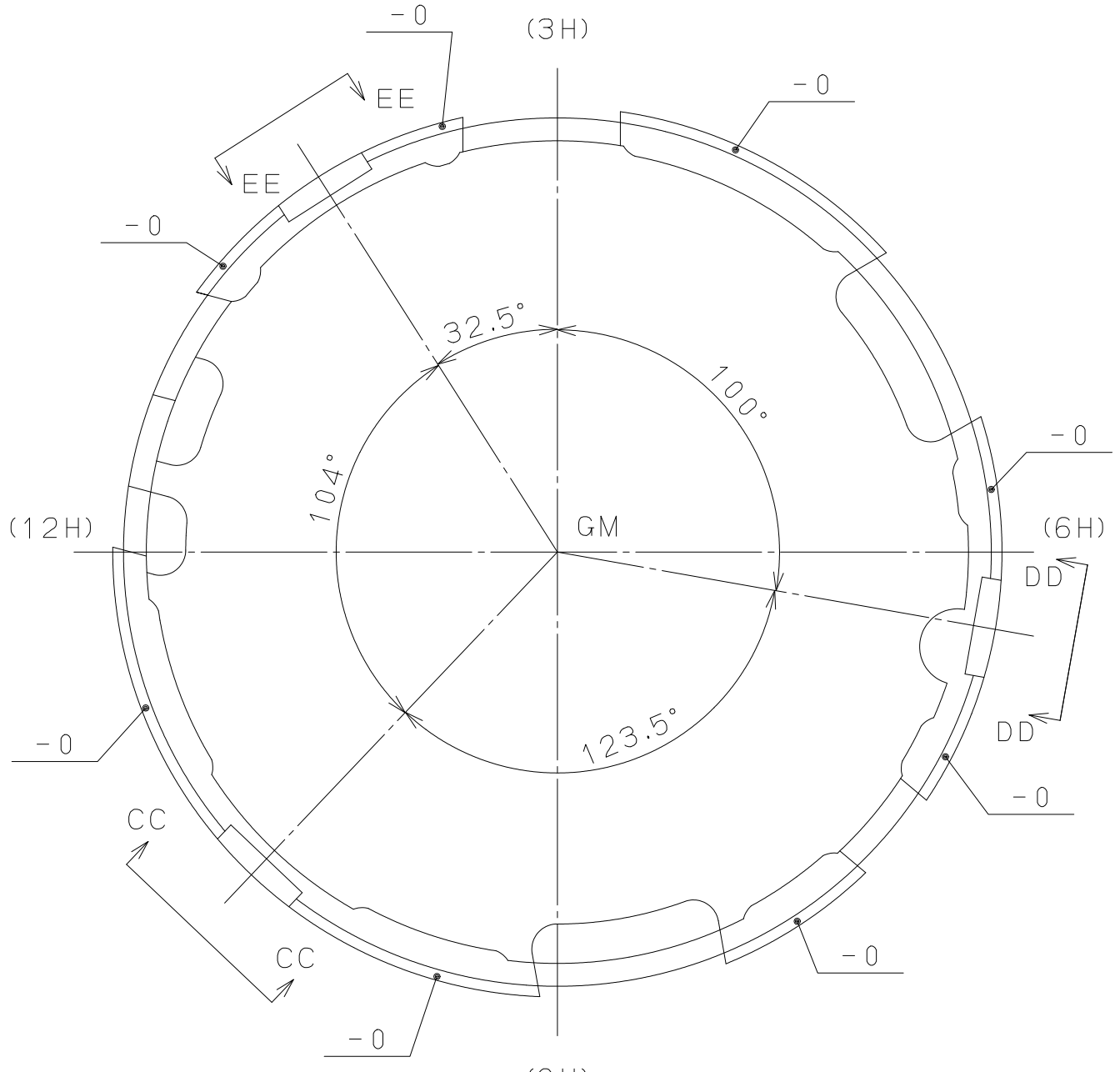
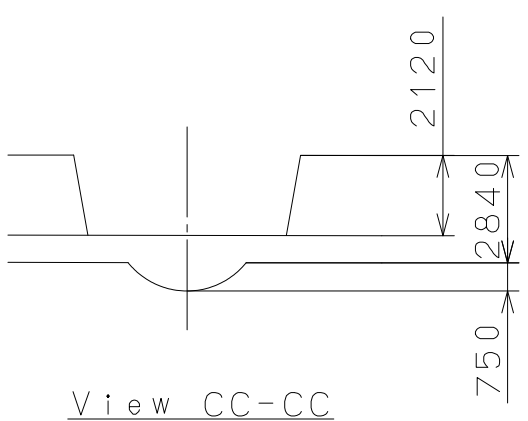
③			Scale	15：1	Parts No.:
②			Date		065-212
①			Drawn		
Mark	Date	Description Appro.	Checked	N.Suzuki	Name:
Alterations			Approved		SETTING STEM
Material					Drawing No.:2120S001
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		
Plating			Angles		CITIZEN WATCH CO.,LTD. TOKYO,JAPAN







View CC-CC
DD-DD、EE-EE

⑤			Quantity		Cal.NO.:
④			Unit	1／1000mm	
③			Scale	5 : 1	Parts No.: 500-710
②			Date		
①			Drawn		
Mark	Date	Description Appro.	Checked	N.Suzuki	Name: Casing Holder
Alterations			Approved		
Material					Drawing No.:8200E002
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		
Plating			Angles		CITIZEN WATCH CO.,LTD. TOKYO,JAPAN