

MIYOTA

Cal. 8205/15/0A/1A

AUTOMATIC & MANUAL WINDING MOVEMENT WITH DATE & WIDE DAY

Basic specification

Calibre	8205	8215	820A	821A
Ligne	11-1/2'''			
Overall diameter	Φ26.0mm			
Case fitting diameter	Φ25.6mm			
Total height	5.67mm			
Date	○	○	○	○
Day	○	N/A	○	N/A
Vibration frequency	21600 vibrations per hour			
Jewels	21 Jewels			

Function

Automatic & manual winding
Display by means of hands: hour, minute, second
Date calendar
Wide Day calendar (8205/820A)
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>

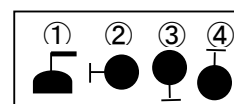
Accuracy

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



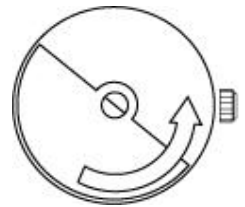
Running time

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

(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 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.

(3) Setting the Day

1. Pull the crown to "B" position.

2. Turn the crown clockwise to set the day.

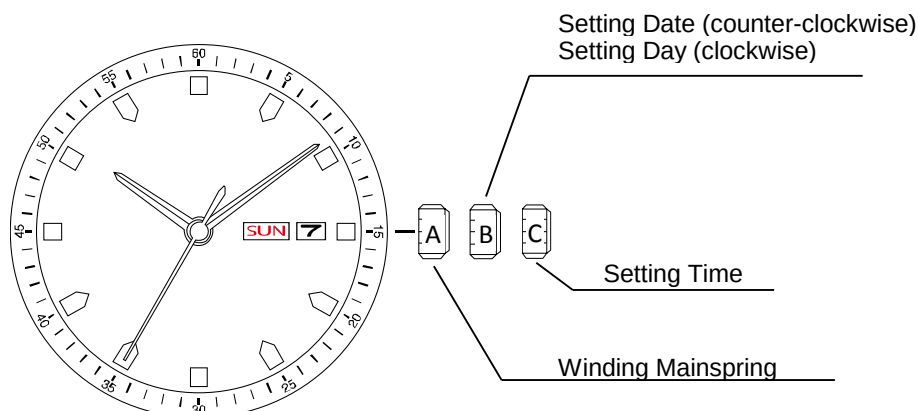
*If the day is set between the hours of around 1:00 AM and 4:30 AM, the day may not change on the following day.

3. After the day has been set, push the crown back to the normal position.

(4) Setting the Time

1. Pull the crown to "C" position.

2. Turn the crown to set the hour and minute hands.



5. Separated Parts

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

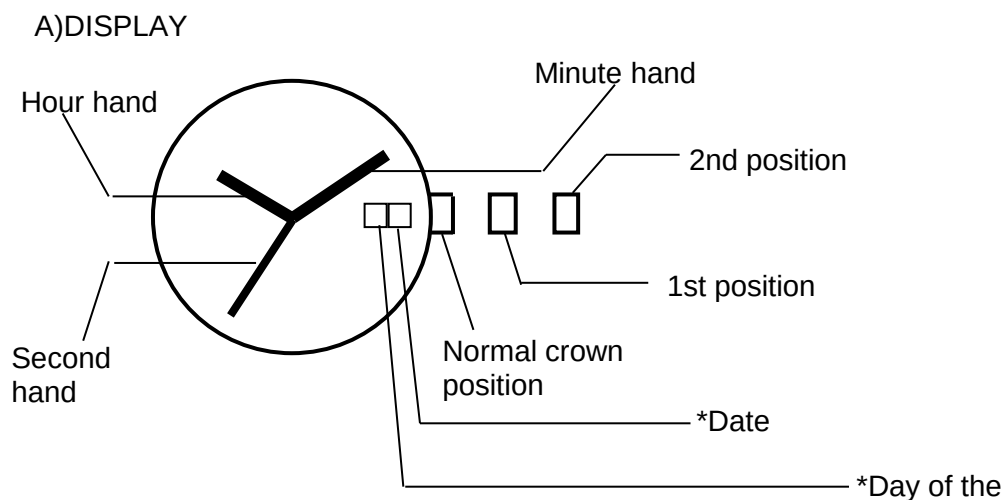
These specifications might be changed without prior notice.

CITIZEN WATCH CO., LTD.

INSTRUCTION MANUAL FOR MIYOTA WATCH MOVEMENT

AUTOMATIC MECHANICAL MOVEMENT

INSTRUCTION MANUAL



*Date & Day of the week position may be located at different position depends on models.

B) SETTING THE TIME

1. Pull the crown out to the 2nd position.
2. Turn the crown to set hour and minute hands.
3. When the crown is pushed back to the normal position, second hand begins to run.

C) SETTING THE DATE

1. Pull the crown out to the 1st 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.

D) SETTING THE DATE OF THE WEEK

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

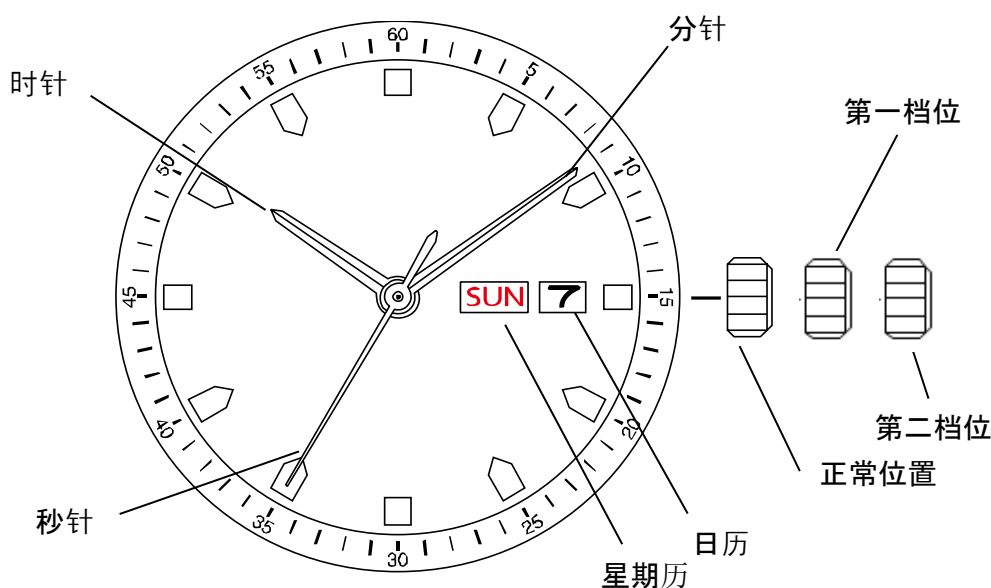
MIYOTA

诞生于日本的世界通用机械机心
日本制造
金属机心

MIYOTA机心操作手册
型号 8205 820A 8285
自动机械机心

- 1) 显示和按钮
- 2) 上发条
- 3) 校时
- 4) 调整日历
- 5) 调整星期历

- 1) 显示和按钮



- 2) 上发条

自动表也可以通过手动上发条，顺时针转动位于正常位置的柄头即可
手动上条的话一般顺时针转十五至二十下即可。

- 3) 校时

1. 将柄头拉到第二档位置
2. 转动柄头调整时针和分针。
3. 调整后，把柄头推回正常位置。

- 4) 调整日历

1. 把柄头拉至第一档
2. 逆时针方向转动柄头，调整日历。
* 在下午9点至凌晨4点之间调整日历时，可能会发生不能调整的现象。
因此，请勿在上述时间段内调整日历
3. 调整后，把柄头推回正常位置

- 5) 调整星期历

1. 将柄头拉到第一档位置
2. 顺时针转动柄头设定星期。
* 在下午九点至凌晨4点之间调整日历时，可能会发生不能调整的现象。
因此，请勿在上述时间段内调整日历
3. 调整之后将柄头推回原来的位置

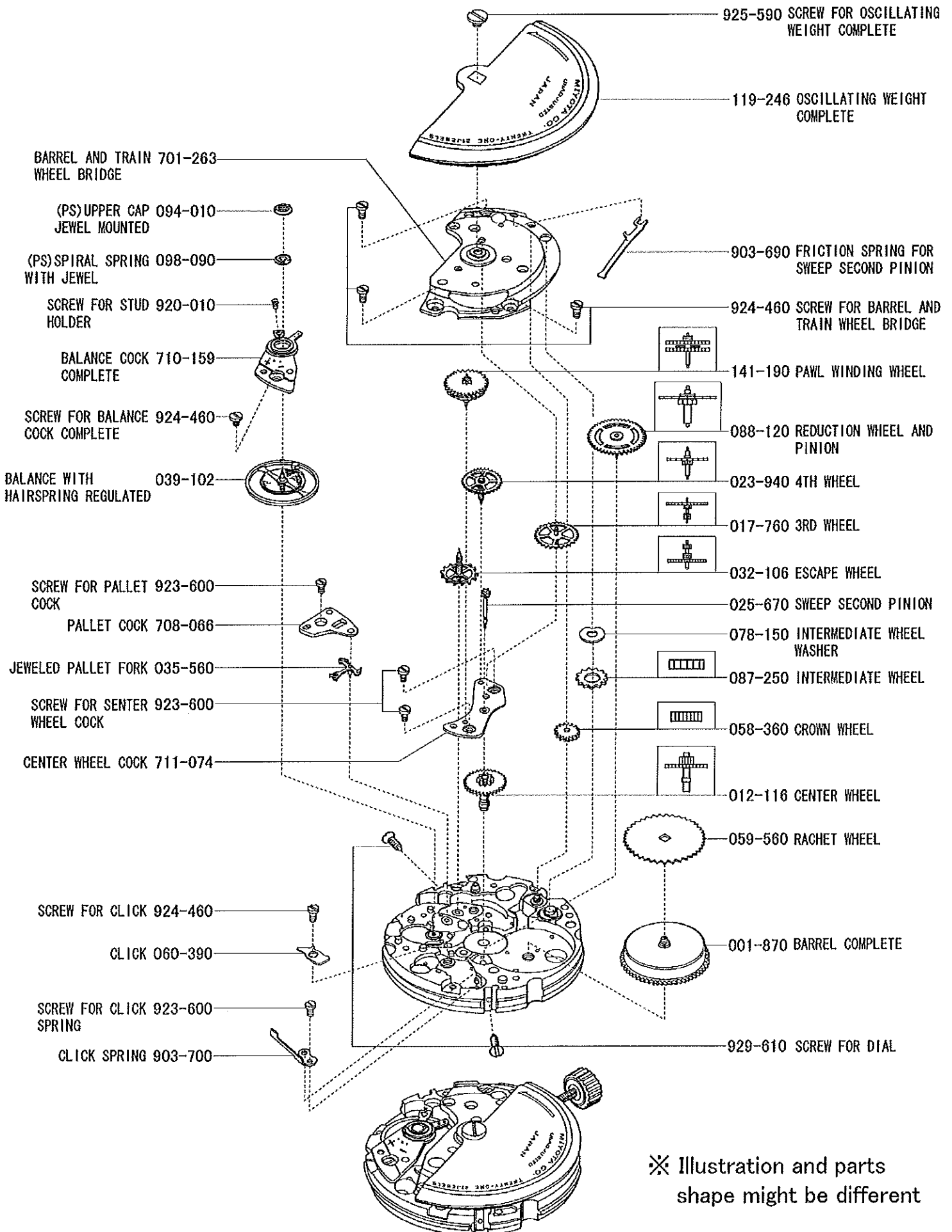
上述数值如有变更恕不另行通知
CITIZEN WATCH CO., LTD.

***** CAL. 8205/8215 MOV'T PARTS LIST *****

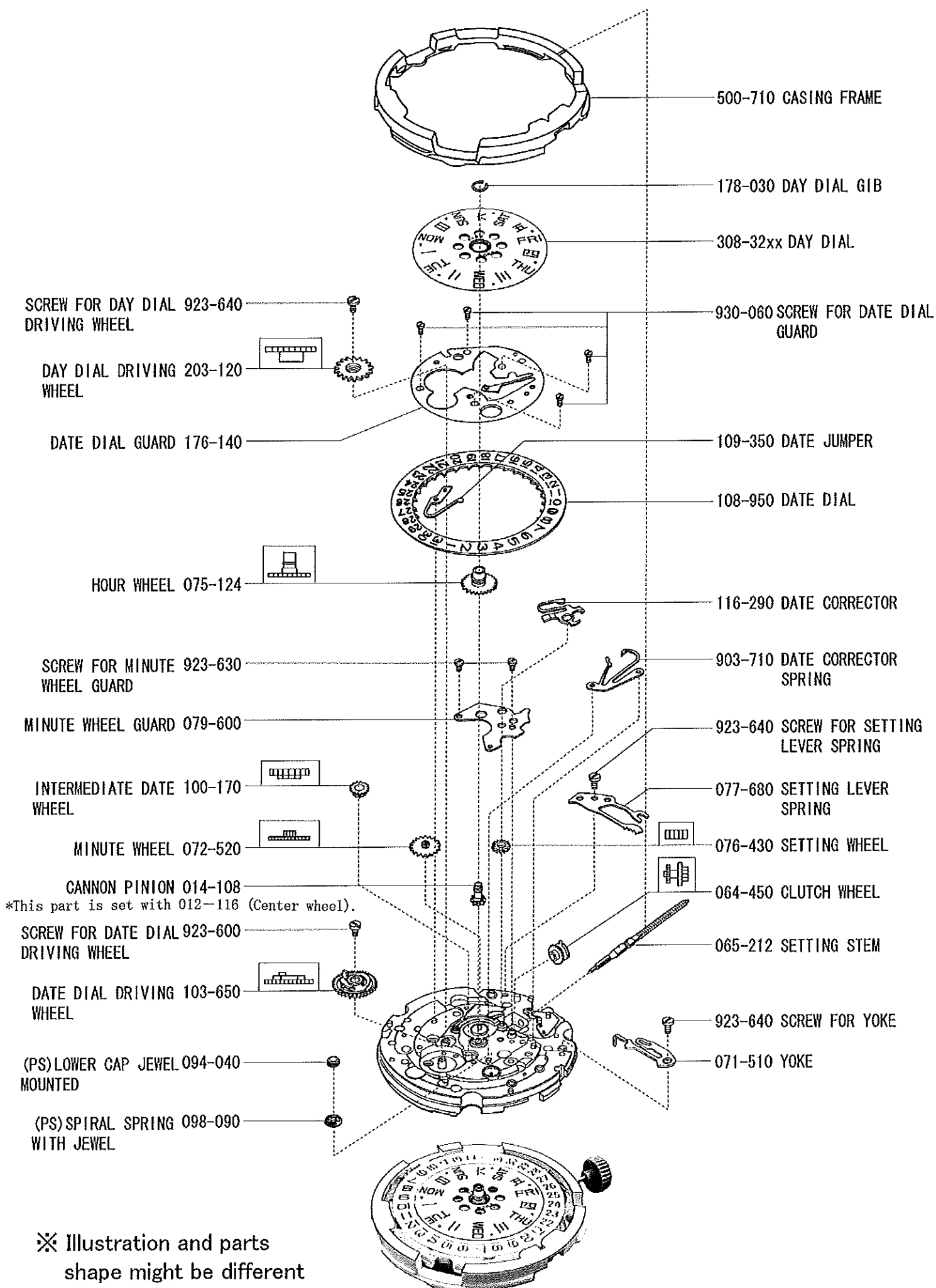
ORIGINAL PARTS, MADE IN JAPAN

PART NAME	8205	8205 GILT	8215	8215 GILT
BALANCE COCK COMPLETE	710-159	710-183	710-159	710-183
BALANCE WITH HAIRSPRING REGULATED	039-102	039-102	039-102	039-102
BARREL BRIDGE	701-263	701-799	701-263	701-799
BARREL COMPLETE	001-870	001-101	001-870	001-101
CALENDAR CORRECTOR LEVER	116-290	116-290	116-300	116-300
CENTER WHEEL & PINION W/T CANNON PINION	012-116	012-116	012-116	012-116
CENTER WHEEL COCK	711-074	711-108	711-074	711-108
CLICK	060-390	060-390	060-390	060-390
CLICK SPRING	903-700	903-700	903-700	903-700
CLUTCH WHEEL	064-450	064-450	064-450	064-450
CROWN WHEEL	058-360	058-360	058-360	058-360
DATE CORRECTOR SPRING	903-710	903-710	903-710	903-710
DATE DIAL	108-9500	108-9500	108-9500	108-9500
DATE DIAL DRIVING WHEEL	103-650	103-650	103-650	103-650
DATE DIAL GUARD	176-140	176-140	176-150	176-150
DATE JUMPER	109-350	109-350	109-350	109-350
DAY DIAL	308-32XX	308-32XX	-	-
DAY DIAL DRIVING WHEEL	203-120	203-120	-	-
DAY DIAL GIB	178-030	178-030	-	-
ESCAPE WHEEL AND PINION	032-106	032-106	032-106	032-106
FOURTH WHEEL AND PINION	023-940	023-940	023-940	023-940
FRICTION SPRING FOR SWEEP SEC PINION	903-690	903-690	903-690	903-690
HOUR WHEEL	075-124	075-124	075-124	075-124
INTERMEDIATE DATE WHEEL	100-170	100-170	100-170	100-170
INTERMEDIATE WHEEL	087-250	087-250	087-250	087-250
INTERMEDIATE WHEEL WASHER	078-150	078-150	078-150	078-150
JEWELLED PALLET FORK AND STAFF	035-5605	035-5605	035-5605	035-5605
LOWER CAP JEWEL MOUNTED	094-040	094-040	094-040	094-040
MINUTE WHEEL AND PINION	072-520	072-520	072-520	072-520
MINUTE WHEEL GUARD	079-600	079-600	079-600	079-600
OSCILLATING WEIGHT	119-246	119-214	119-246	119-214
PALLET COCK	708-066	708-074	708-066	708-074
PAWL WINDING WHEEL	141-190	141-190	141-190	141-190
RATCHET WHEEL	059-560	059-630	059-560	059-630
REDUCTION WHEEL	088-120	088-190	088-120	088-190
SCREW FOR BARREL AND TRAIN WHEEL BRIDGE(×3)	924-460	924-460	924-460	924-460
SCREW FOR BALANCE BRIDGE	924-460	924-460	924-460	924-460
SCREW FOR CENTER WHEEL COCK (×2)	923-600	923-600	923-600	923-600
SCREW FOR CLICK	924-460	924-460	924-460	924-460
SCREW FOR CLICK SPRING	923-600	923-600	923-600	923-600
SCREW FOR DATE DIAL DRIVING WHEEL	923-600	923-600	923-600	923-600
SCREW FOR DATE DIAL GUARD (× 4)	930-060	930-060	923-630	923-630
SCREW FOR DAY DIAL DRIVING WHEEL	923-640	923-640	-	-
SCREW FOR DIAL (× 2)	929-610	929-610	929-610	929-250
SCREW FOR MINUTE TRAIN COVER(×2)	923-630	923-630	923-630	923-630
SCREW FOR PALLET BRIDGE	923-600	923-600	923-600	923-600
SCREW FOR STUD	920-010	920-010	920-010	920-010
SCREW FOR SETTING LEVER SPRING	923-640	923-640	923-640	923-640
SCREW FOR YOKE	923-640	923-640	923-640	923-640
SCREW FOR OSCILLATING WEIGHT	925-590	925-540	925-590	925-540
SETTING LEVER	067-860E	067-860E	067-860E	067-860E
SETTING LEVER SPRING	077-680	077-680	077-680	077-680
SETTING WHEEL	076-430	076-430	076-430	076-430
SPIRAL SPRING WITH JEWEL	098-090	098-090	098-090	098-090
SWEEP SECOND PINION	025-670	025-670	025-670	025-670
THIRD WHEEL AND PINION	017-760	017-760	017-760	017-760
UPPER CAP JEWEL MOUNTED	094-010	094-010	094-010	094-010
WASHER FOR WHEEL	-	-	078-140	078-140
WINDING STEM	065-212	065-212	065-212	065-212
YOKE	071-510	071-510	071-510	071-510
** LONGER SETTING STEM(24.0MM) **	065-A06	065-A06	065-A06	065-A06

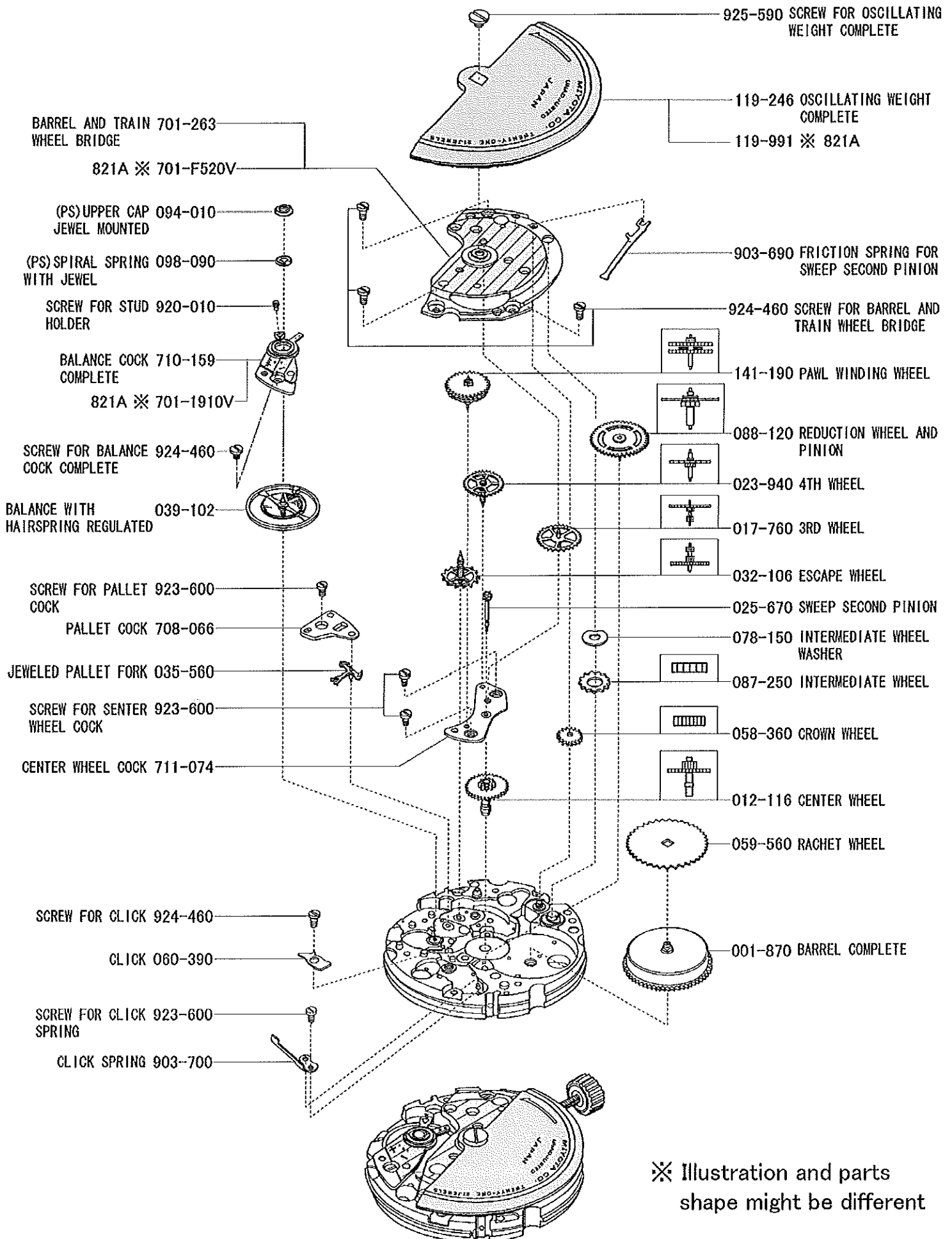
CAL.8205



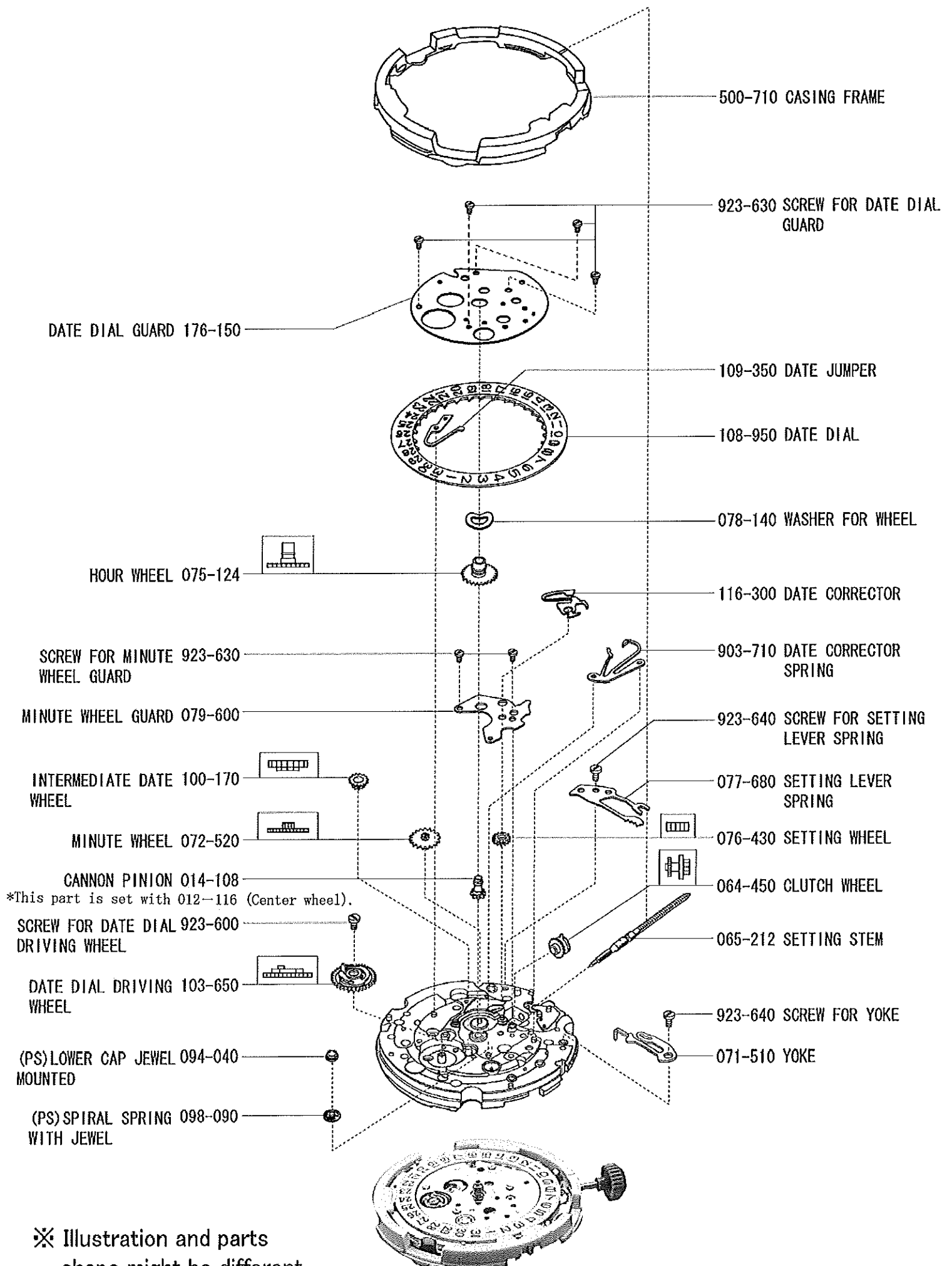
CAL.8205



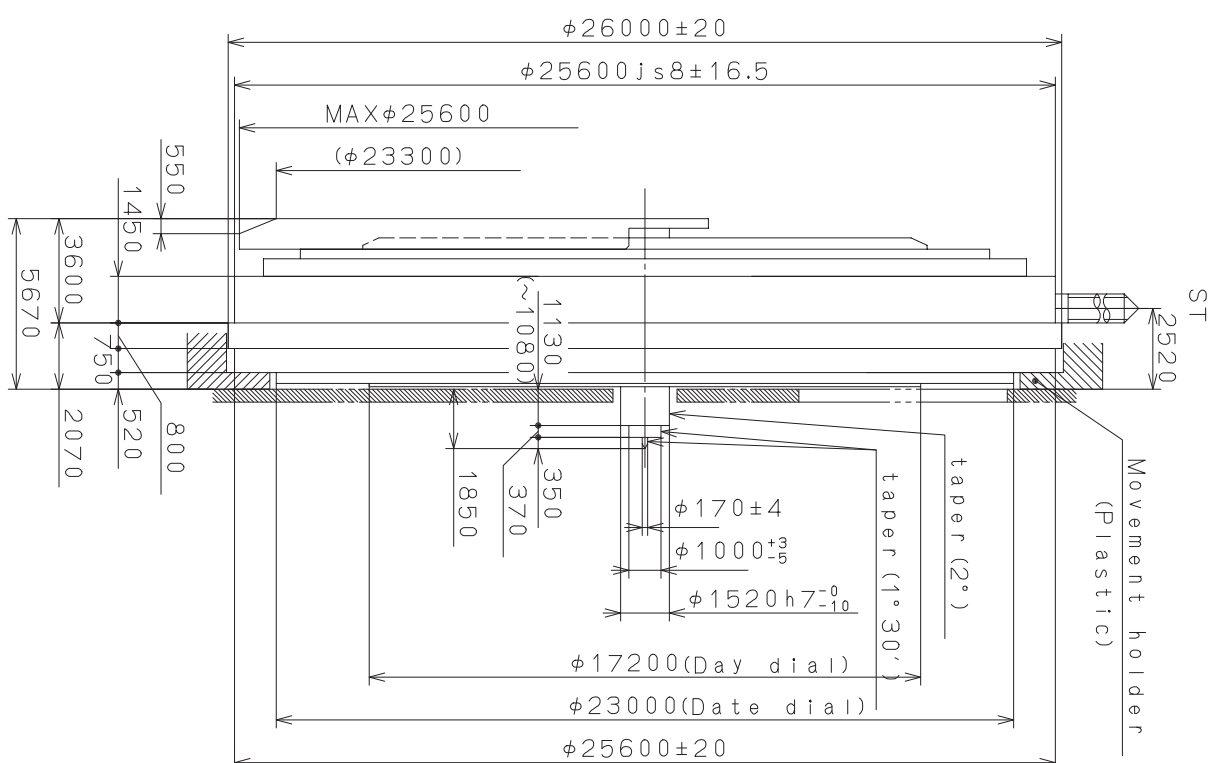
CAL.8215/1A



CAL.8215/1A



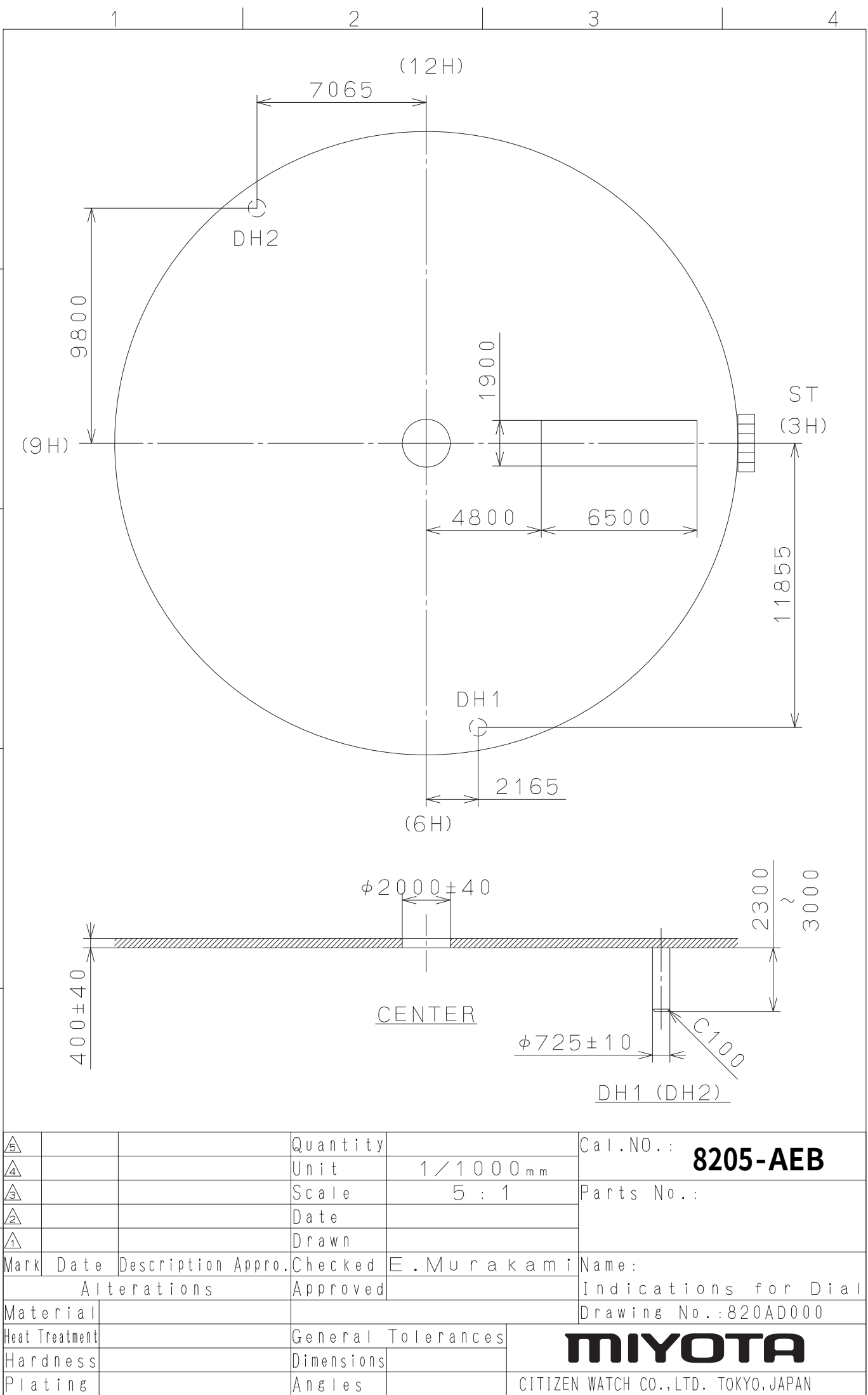
※ Illustration and parts shape might be different



PIYOTA

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

A
B
C
D
E
F



⑤			Quantity		Cal.NO.: 8205-AEB
④			Unit	1 / 1000 mm	
③			Scale	5 : 1	Parts No.:
②			Date		
①			Drawn		
Mark	Date	Description	Appr.	Checked E. Murakami	Name:
Alterations			Approved		Indications for Dial
Material					Drawing No.: 820AD000
Heat Treatment			General Tolerances	MIYOTA	
Hardness			Dimensions		
Plating			Angles		
					CITIZEN WATCH CO., LTD. TOKYO, JAPAN

2008/11/14 (11:30:42)

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

A

B

C

D

E

F

S0.9, P=0.225mm

φ740

600

Section A-A

11700

1150

900

20000

φ1200

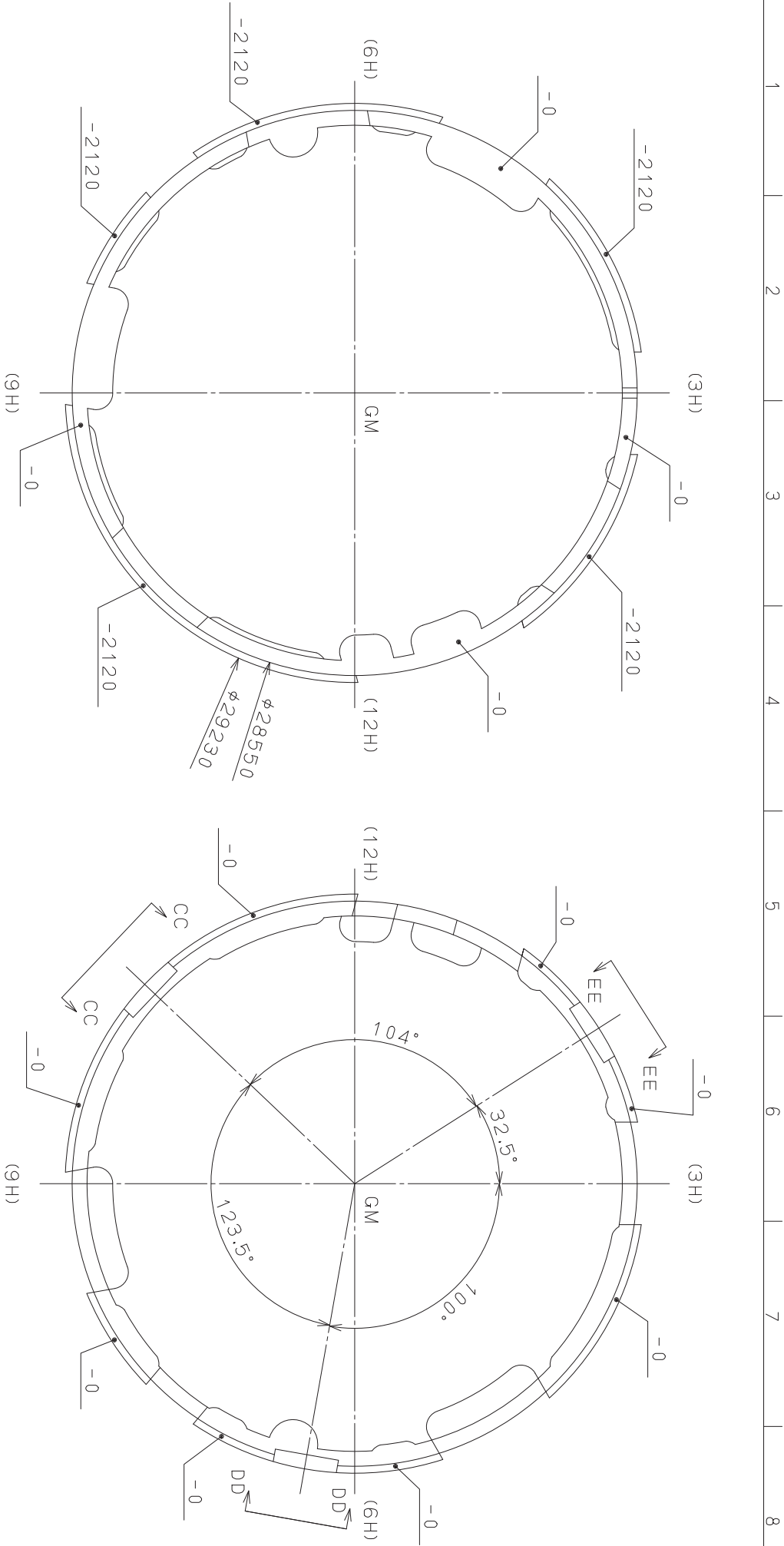
A

A

⑤			Quantity		Cal.NO.:
④			Unit	1 / 1 0 0 0 mm	
③			Scale	1 5 : 1	Parts No.:
②			Date		065-212
①			Drawn		
Mark	Date	Description	Appr.	Checked N . S u z u k i	Name:
Alterations			Approved		SETTING STEM
Material					Drawing No.:2120S001
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		
Plating			Angles		
					CITIZEN WATCH CO.,LTD. TOKYO,JAPAN

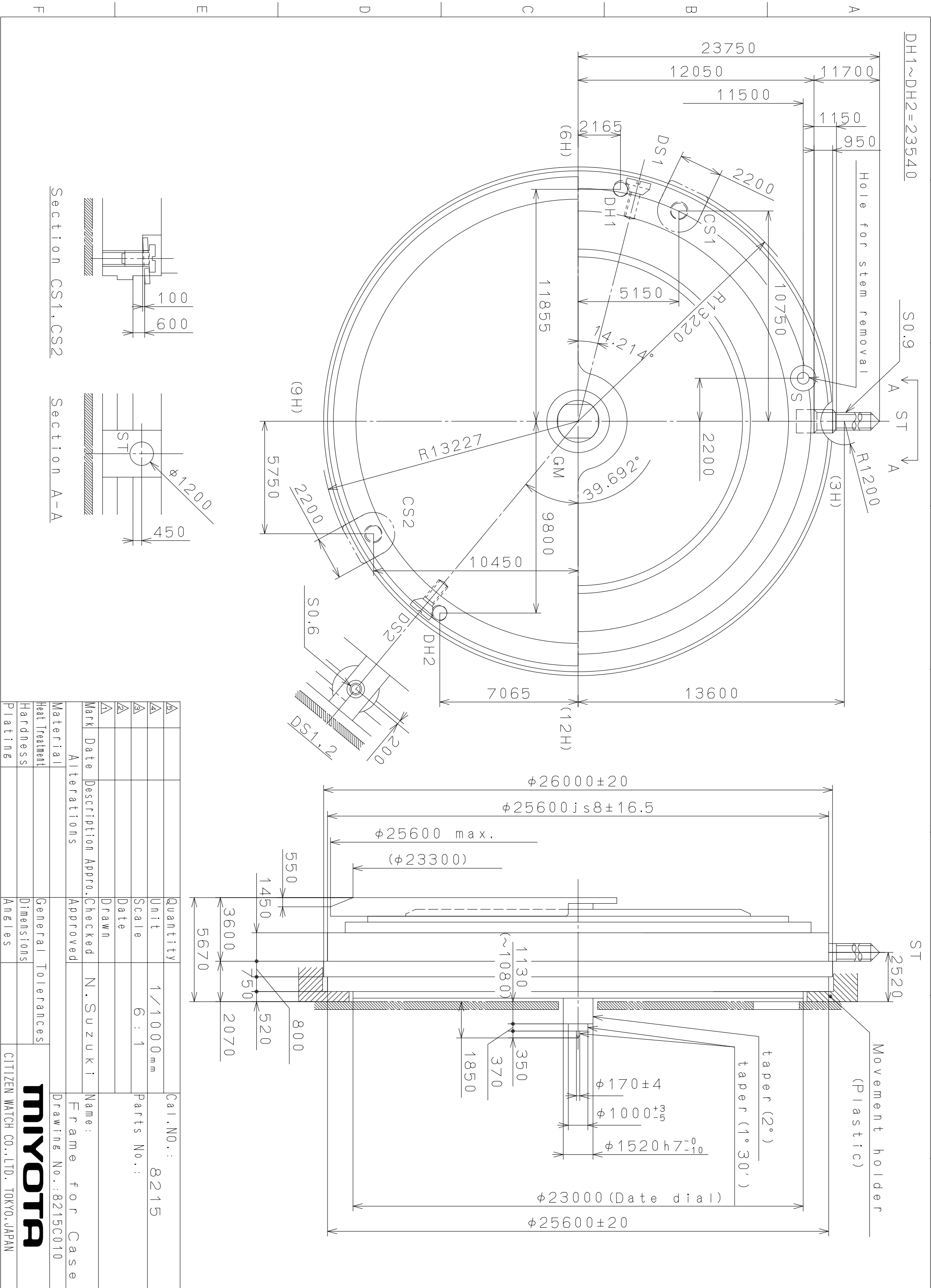
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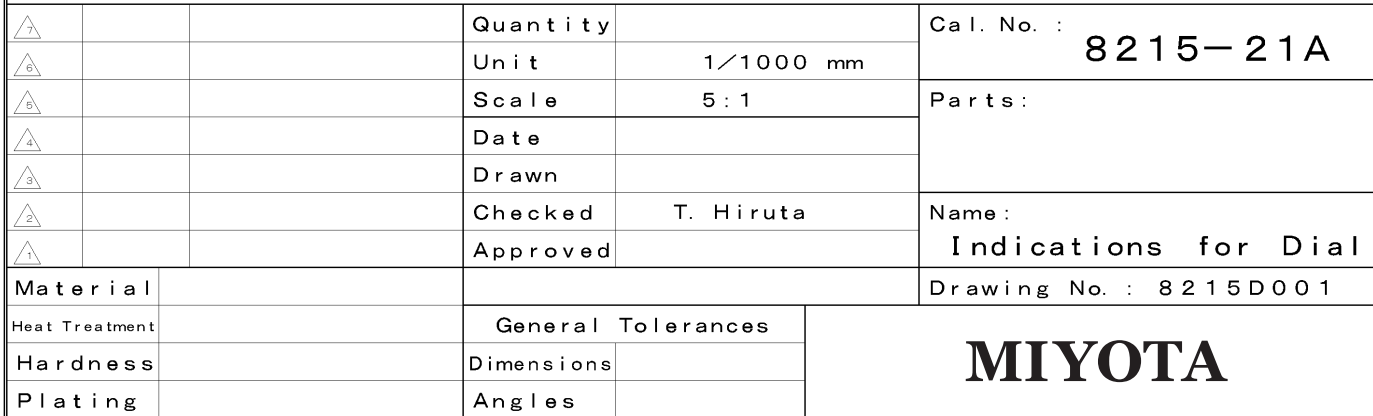


△		Quantity		Cal. No.:
△		Unit	1/1000 mm	
△		Scale	5 : 1	Parts No.:
△		Date		500-710
△		Drawn		
Mark	Date	Description	Appr.	Checked
Alterations	Approved			N. Suzuki
Material				Casing Holder
Heat Treatment		General Tolerances		Drawing No.: 8200E002
Hardness		Dimensions		
Plating		Angles		
				CITIZEN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

miyota



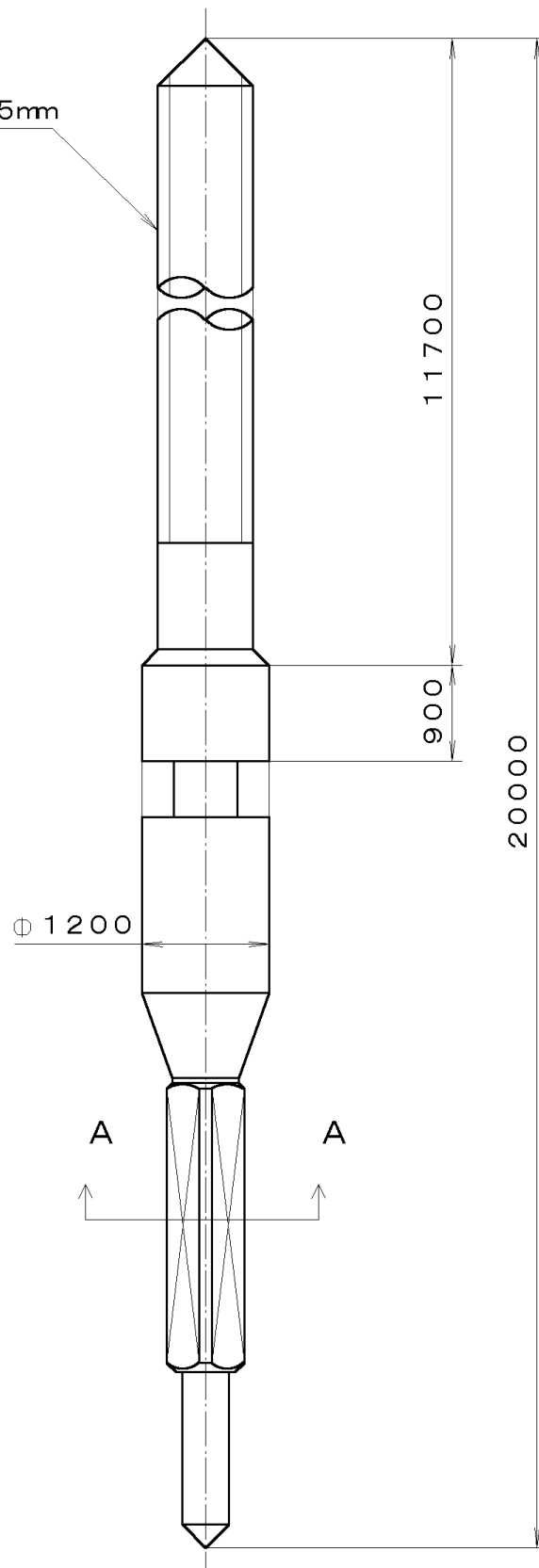
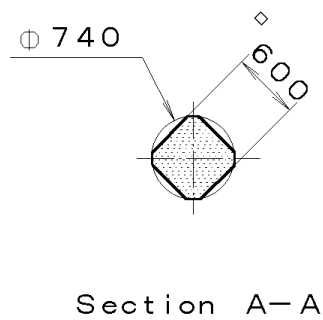
*** TIPW 8215-21A (01) *** (2100 1121) 02-03-11

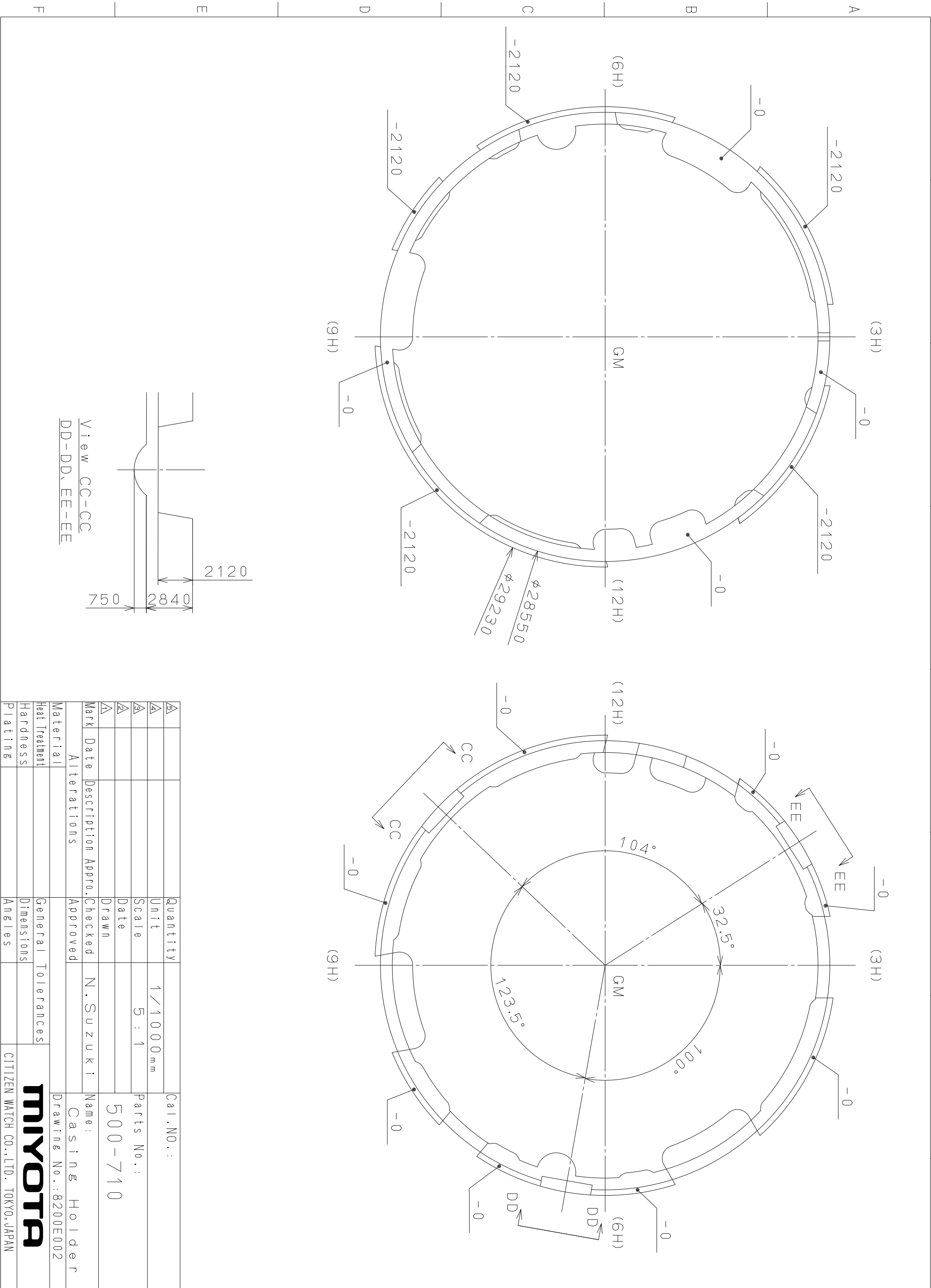


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*** T I P W (01) *** (2100 1121) 00-09-18

7			Quantity		Cal. No. :
6			Unit	1/1000 mm	
5			Scale	15:1	
4			Date		Parts: 065-212
3			Drawn		
2			Checked	T. Hiruta	
1			Approved		
Material					Drawing No. : 2120S000
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		
Plating			Angles		





General Tolerances

CITIZEN WATCH CO., LTD. TOKYO, JAPAN

miyota

Cas ing Holder

Drawing No.:8200E002

8215 8205 821A 820A

MIYOTA

Size
<ligne>

11 1/2'''

Height
<mm>

5.67

Accuracy
<per Day>

-20 ~ +40 sec

Posture
Difference

(under) 50 sec

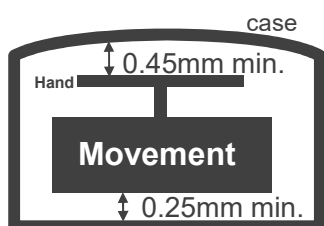
Running
time

(more than) 42 hours

Vibration
Frequency
<per Hour>

(vibration) 21600

Clearance



Jewels

21 pcs

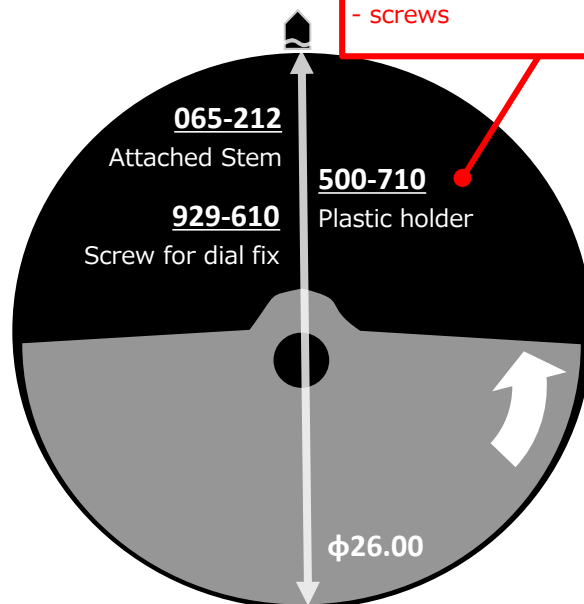
Lift
Angle

49 degree

Original
Package

300 pcs

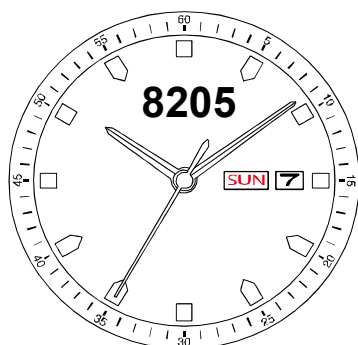
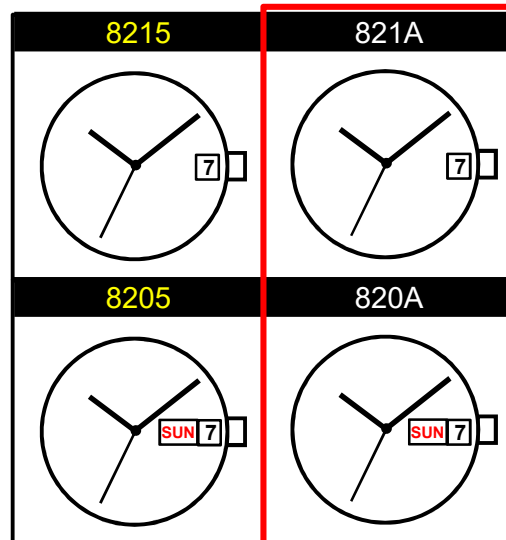
Exchangeable with
- metal ring
- casing clamps
- screws



Gilt Version Available

SUN
Day

7
Date



Setting the Time

Setting the Date and Day

DO NOT set Date between 9:00pm - 1:00am
DO NOT set Day between 1:00am - 4:30am



Fine finishing with
- barrel bridge

Time measurement & Winding

Mechanical

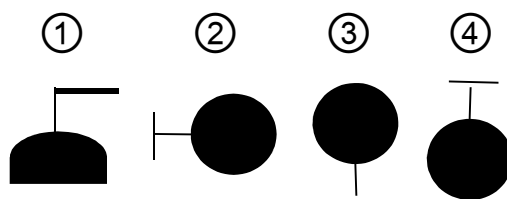
Accuracy

Measure within lapse of 10 ~ 60 minutes from full winding with ① posture.

Posture difference

Measure accuracy in below ① ~ ④ postures.

- ① Dial side up
- ② 6 o'clock side up
- ③ 9 o'clock side up
- ④ 3 o'clock side up

**■ To make full-winded**

90 / 91	Turn the crown 40 times
82 / 8N	Turn the crown 40 times
6T	Turn the crown 20 times

■ Winding direction