MIYOTA

UNIVERSAL MASTERPIECE BORN IN JAPAN
MADE IN JAPAN
METAL MOVEMENT
INSTRUCTION MANUAL FOR MIYOTA WATCH MOVEMENT
CALIBRE NO. 9015
AUTOMATIC MOVEMENT

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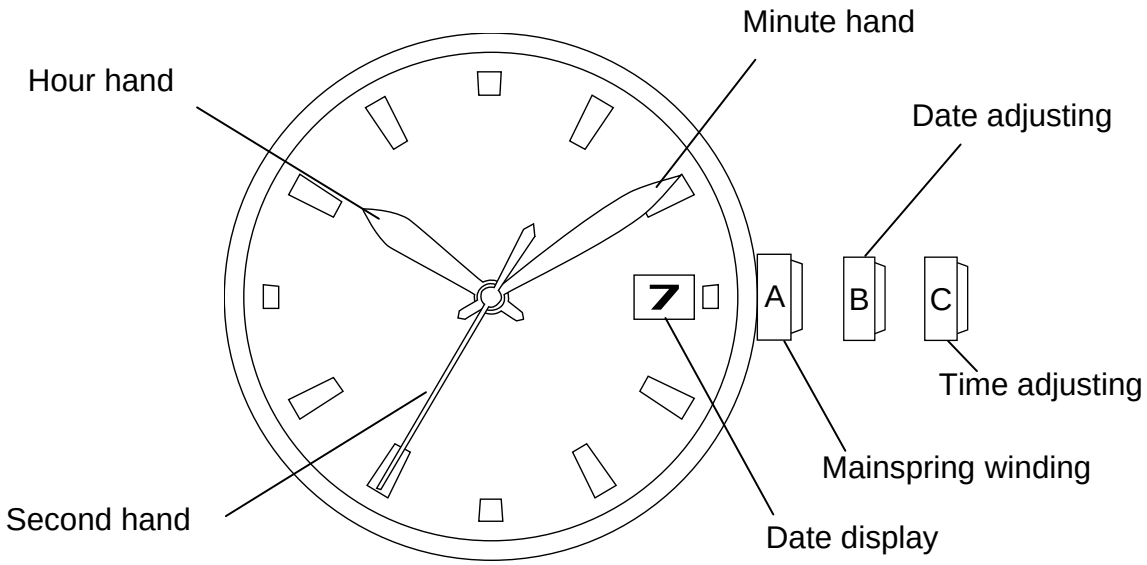
1) DISPLAYS AND BUTTONS



2) WINDING THE MAINSPRING

Automatic winding watch can be also manual-winded by turning the crown in "A" position.
Wind 15 ~ 20 times clockwise until second hand starts to move naturally.

3) ADJUSTING TIME

Rotate the crown in "C" position and adjust the standard time.
Then check if it is morning or afternoon and adjust correctly.

4) ADJUSTING DATE

Adjust the date by rotating the crown in "B" position.

* If the date is adjusted between the hours of around 8:30 PM and 2:00 AM the date may not change on the following day.

These specifications might be changed without prior notice.

CITIZEN WATCH CO., LTD.

Cal No.9015-1/3

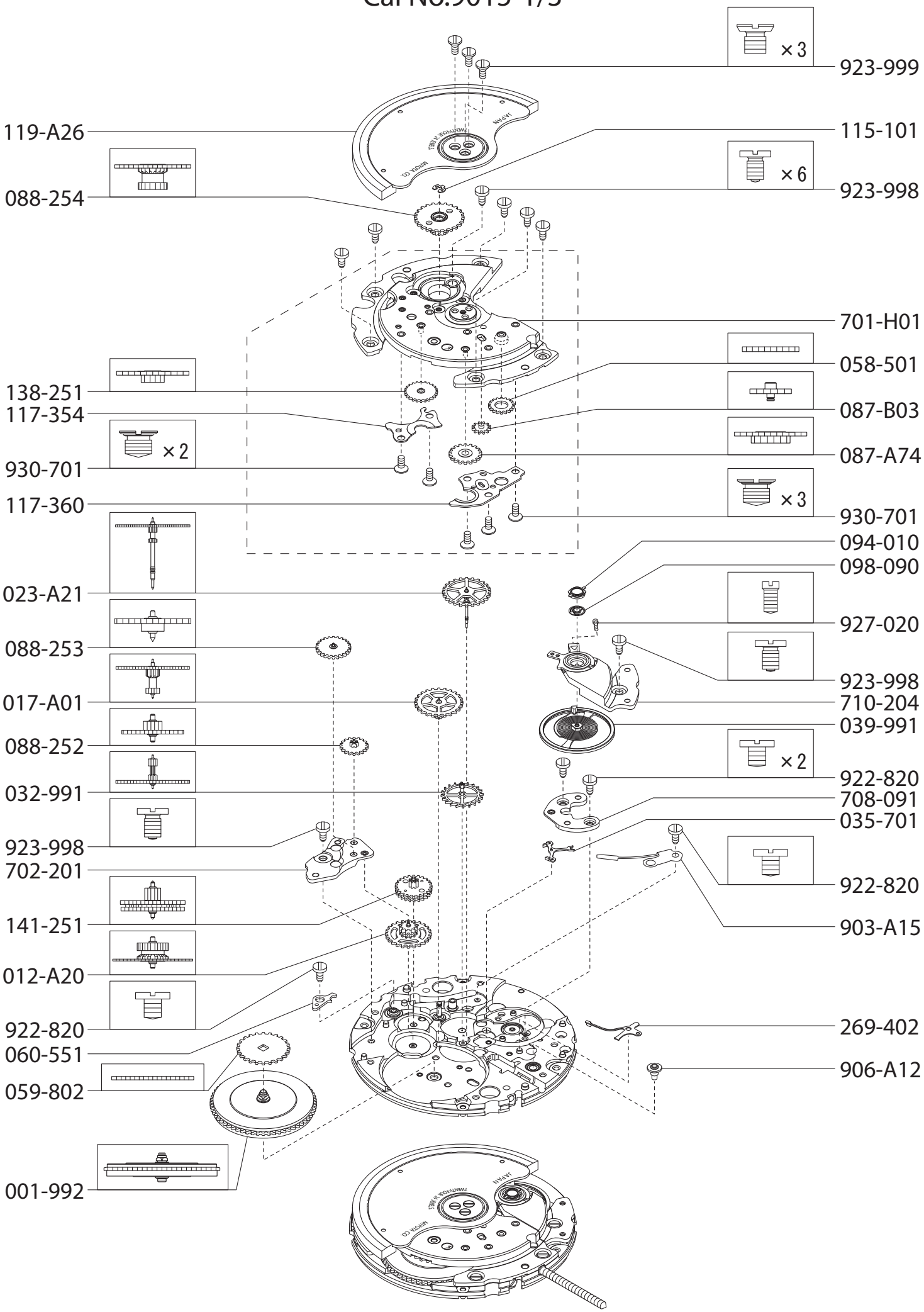


*Illustration and parts shape might be different from real thing.

Cal No.9015-2/3

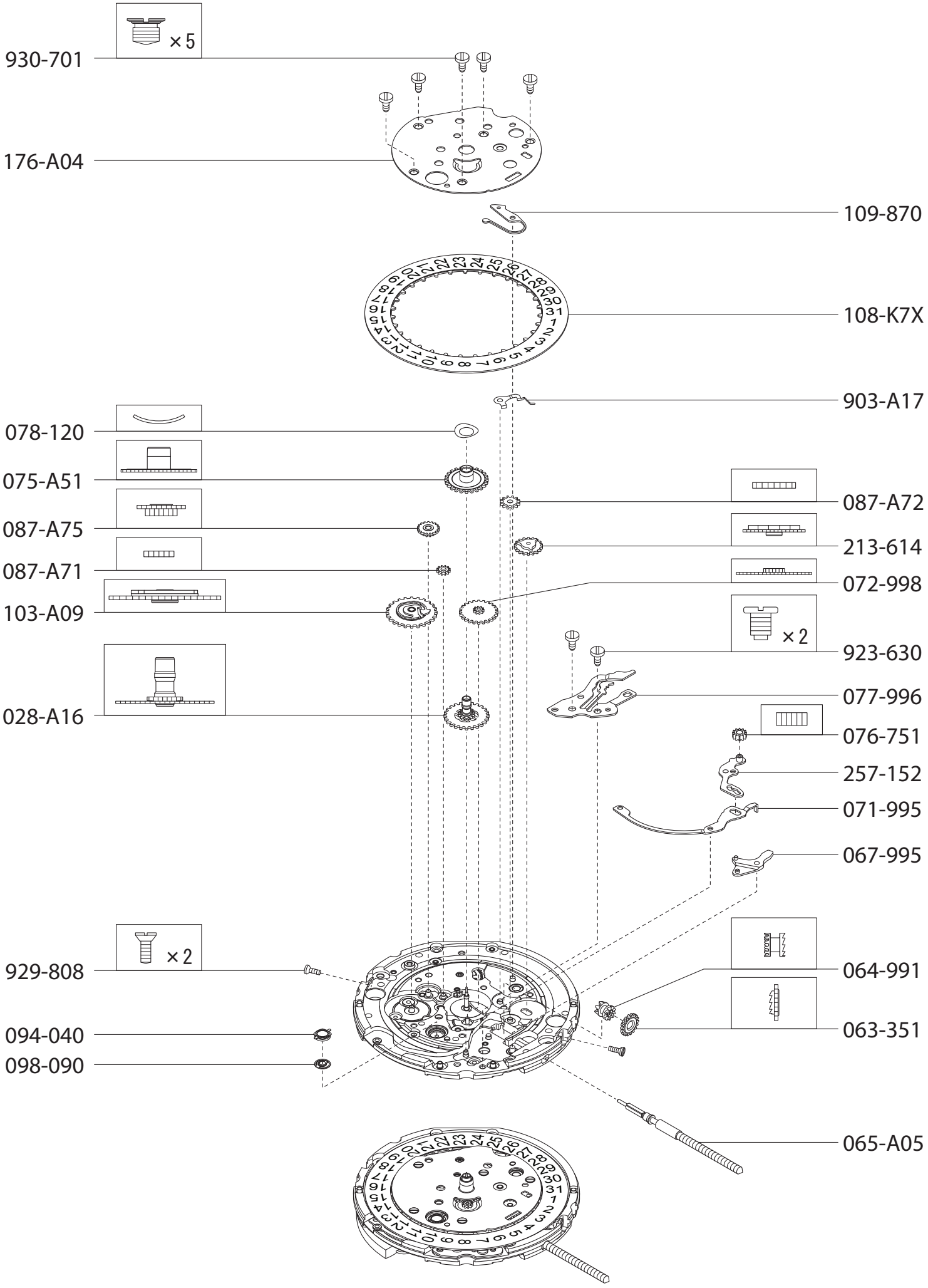


*Illustration and parts shape might be different from real thing.

Cal No.9015-3/3

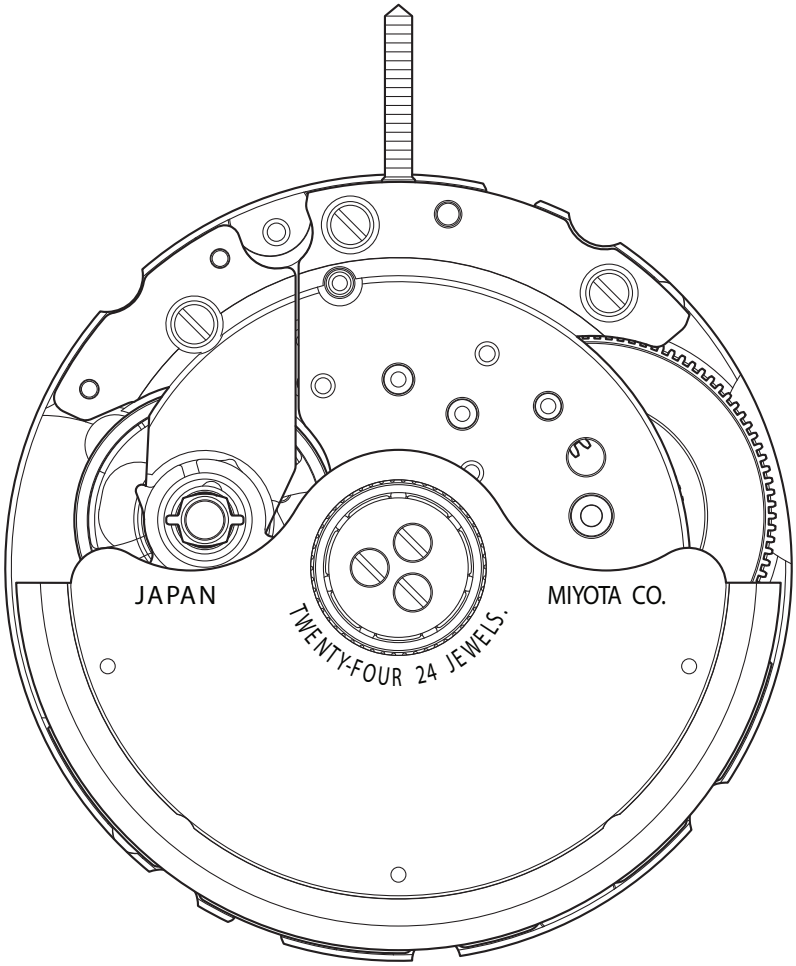


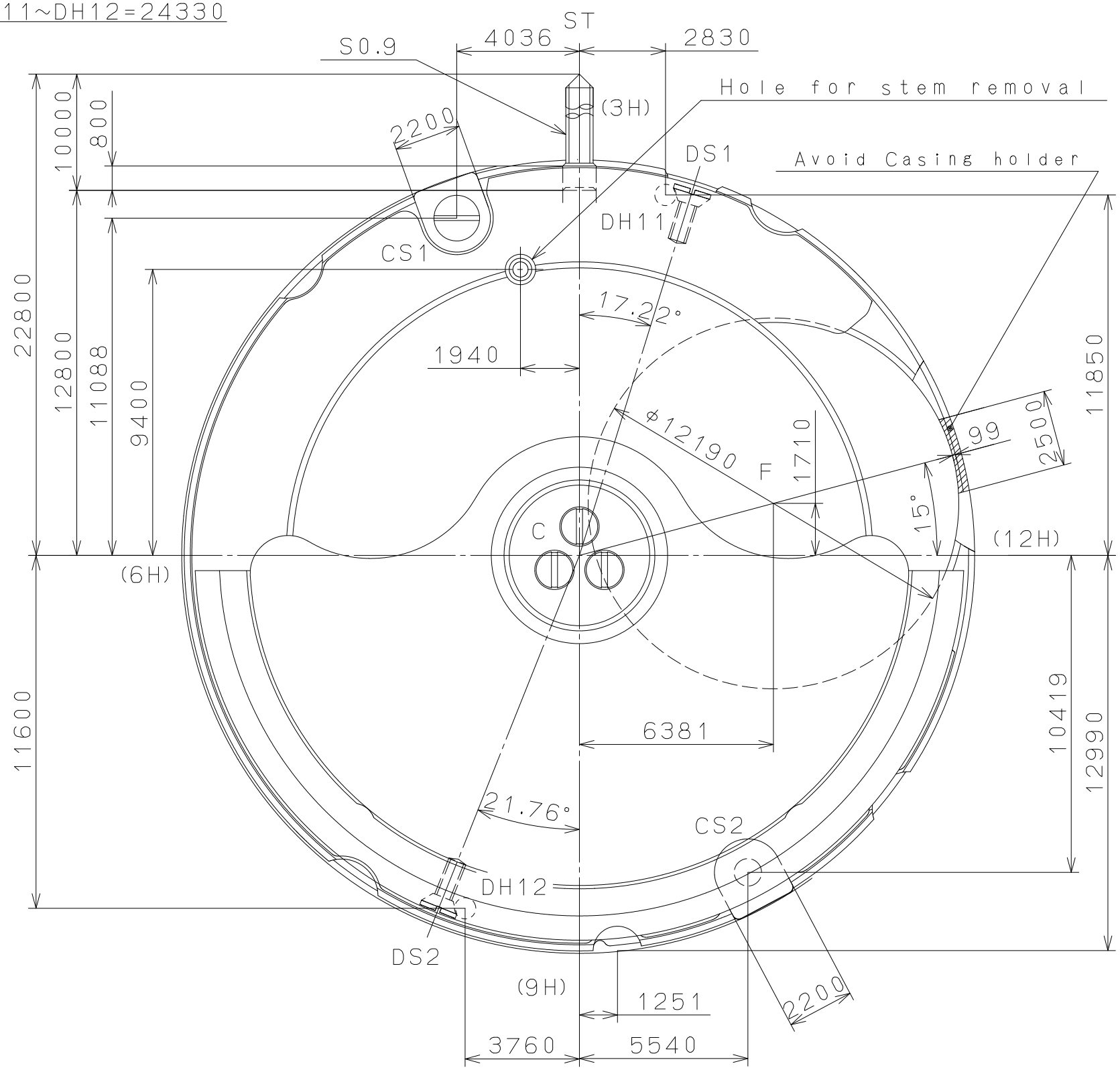
*Illustration and parts shape might be different from real thing.

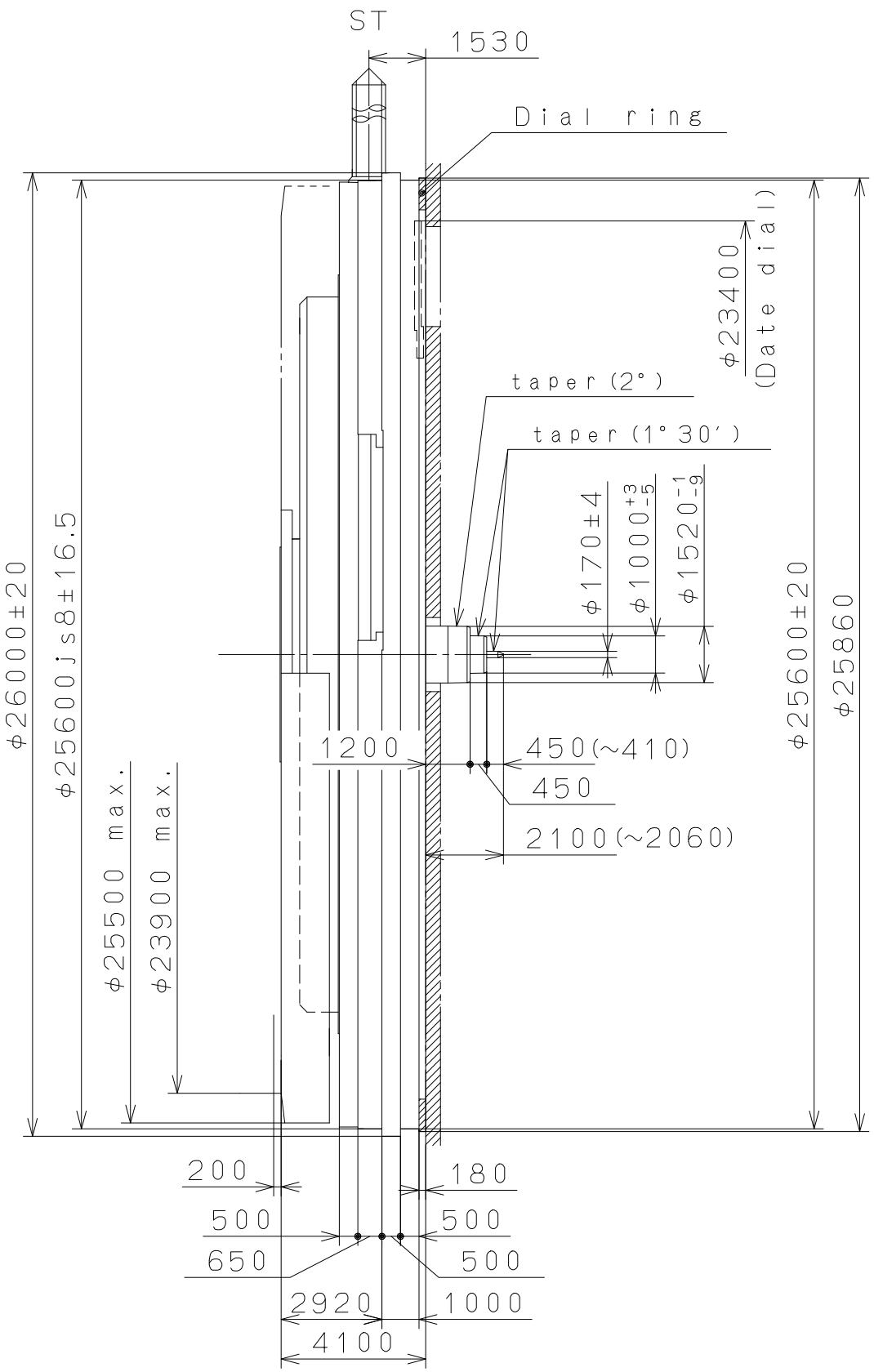
***** CAL. 9015 MOV'T PARTS LIST *****

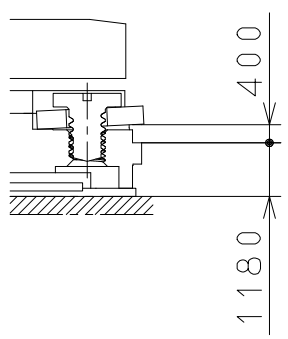
ORIGINAL PARTS, MADE IN JAPAN

PART NAME	9015
BALANCE BRIDGE	710-204
BALANCE WITH HAIRSPRING REGULATED	039-991
BARREL AND TRAIN WHEEL BRIDGE	701-H01
BARREL COMPLETE	001-992
BREAKELEVER FOR SECOND HAND	269-402
CANNON PINION WITH DRIVING WHEEL	028-A16
CALENDAR CORRECTOR LEVER SPRING	903-A17
CENTER WHEEL & PINION	012-A20
CENTER WHEEL BRIDGE	702-201
CLAMP CASING	082-060
CLICK	060-551
CLICK SPRING	903-A15
CLUTCH WHEEL	064-991
CROWN WHEEL	058-501
DATE DIAL	108-L3**
24HOUR WHEEL	103-A16
DATE INDICATOR MAINTAINING PLATE / HOUR WHEEL SPRING	176-A04
DIAL WASHER	078-120
ESCAPE WHEEL AND PINION	032-991
FORTH WHEEL AND PINION	023-A21
HOUR WHEEL	075-A51
INTERMEDIATE DATE CORRECTING WHEEL	087-A72
INTERMEDIATE DATE CORRECTING WHEEL(1)	087-A71
INTERMEDIATE DATE CORRECTING WHEEL(2)	087-A75
JEWELED PALLET FORK AND STAFF	035-701
JUMPER	109-875
LOWER CAP JEWEL MOUNTED	094-040
MINUTE WHEEL AND PINION	072-998
OPERATINGLEVER	257-152
OSCILLATING WEIGHT	119-A26
PALLET BRIDGE	708-091
SETTING LEVER PIN	906-A12
RATCHET SLIDING WHEEL 1	087-B03
RATCHET SLIDING WHEEL(2)	087-A74
RATCHET WHEEL	059-802
INTERMEDIATE REDUCTION WHEEL AND PINION	088-254
INTERMEDIATE REDUCTION WHEEL AND PINION(2)	088-252
INTERMEDIATE REDUCTION WHEEL AND PINION(3)	088-253
INTERMEDIATE REDUCTION WHEEL AND PINION(4)	138-251
REDUCTION WHEEL AND PINION 1 SPRING-CLIP	115-101
REVERSING WHEEL	141-251
SCREW FOR BALANCE BRIDGE	923-998
SCREW FOR BARREL AND TRAIN WHEEL BRIDGE(×7)	923-998
SCREW FOR CLAMP CASING(×2)	924-752
SCREW FOR CLICK	922-820
SCREW FOR CLICK SPRING	922-820
SCREW FOR DAIL(×2)	929-808
SCREW FOR HOUR WHEEL SPRING(×5)	930-701
SCREW FOR MINUTE TRAIN COVER(×2)	923-630
SCREW FOR OSCILLATING WEIGHT(x3)	923-999
SCREW FOR PALLET BRIDGE(×2)	922-820
SCREW FOR REDUCTION WHEEL AND PINION	922-998
SCREW FOR STUD	927-020
SCREW FOR TRAIN WHEEL GUARD(MANUAL- WINDING)(x3)	930-701
SCREW FOR TRAIN WHEEL GUARD(AUTOMATIC)(x 2)	930-701
SETTING LEVER	067-995
SETTING LEVER SPRING	077-996
SETTING STEM	065-A05
SETTING WHEEL	076-751
SPACER FOR DIAL	212-A47
SPIRAL SPRING WITH JEWEL(×2)	098-090
THIRD WHEEL AND PINION	017-A01
TRAIN WHEEL GUARD(MANUAL- WINDING)	117-360
TRAIN WHEEL GUARD(AUTOMATIC)	117-354
UPPER CAP JEWEL MOUNTED	094-010
WINDING PINION	063-351
YOKE	071-995

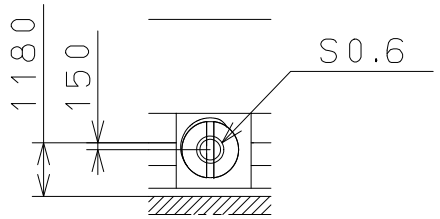
DH11~DH12=24330







Section CS1, CS2

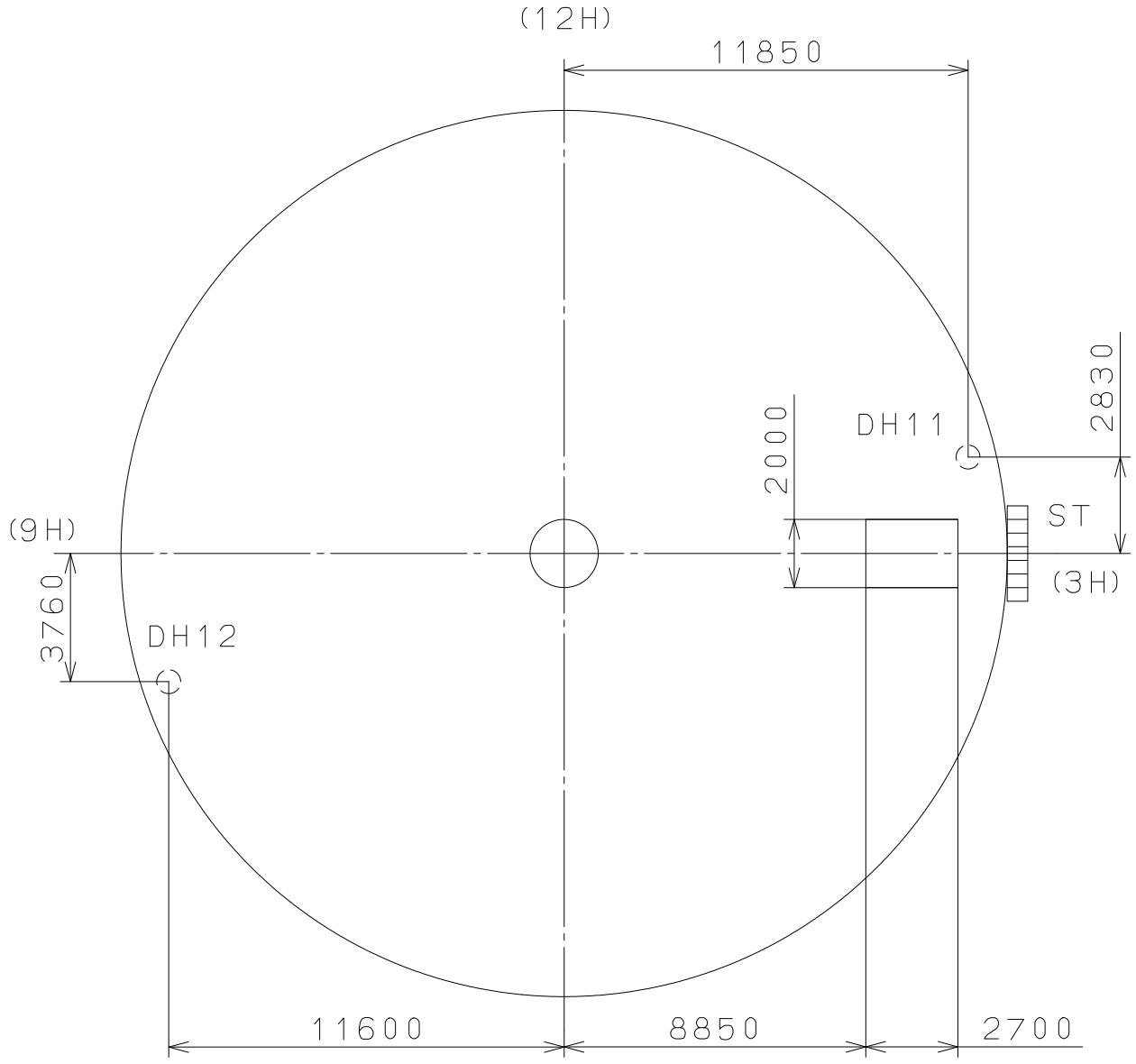


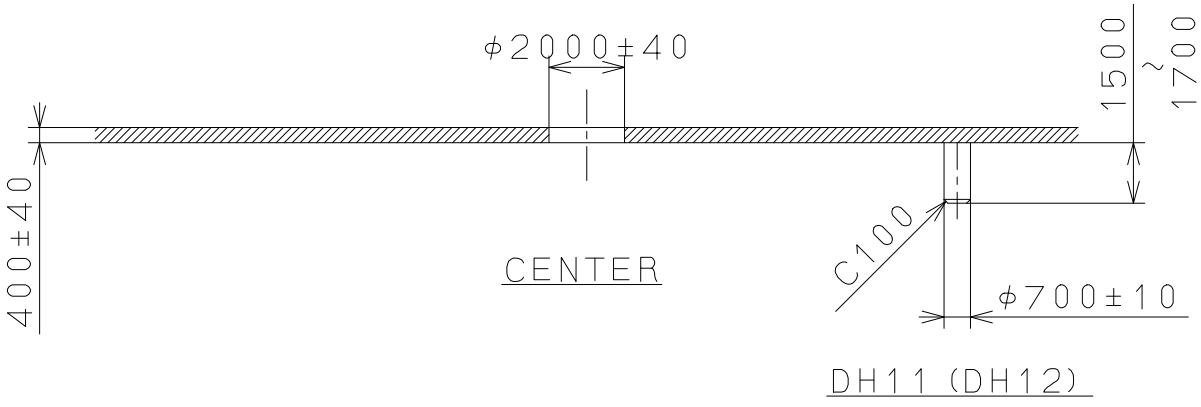
Section DS1, DS2

⑤			Quantity		Cal.NO.: 9015
④			Unit	1/1000mm	
③			Scale	6 : 1	Parts No.:
②			Date		
①			Drawn		
Mark	Date	Description Appro.	Checked	N.Suzuki	Name: Frame for Case
Alterations			Approved		
Material					Drawing No.: 9015C002
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		CITIZEN WATCH CO.,LTD. TOKYO,JAPAN
Plating			Angles		

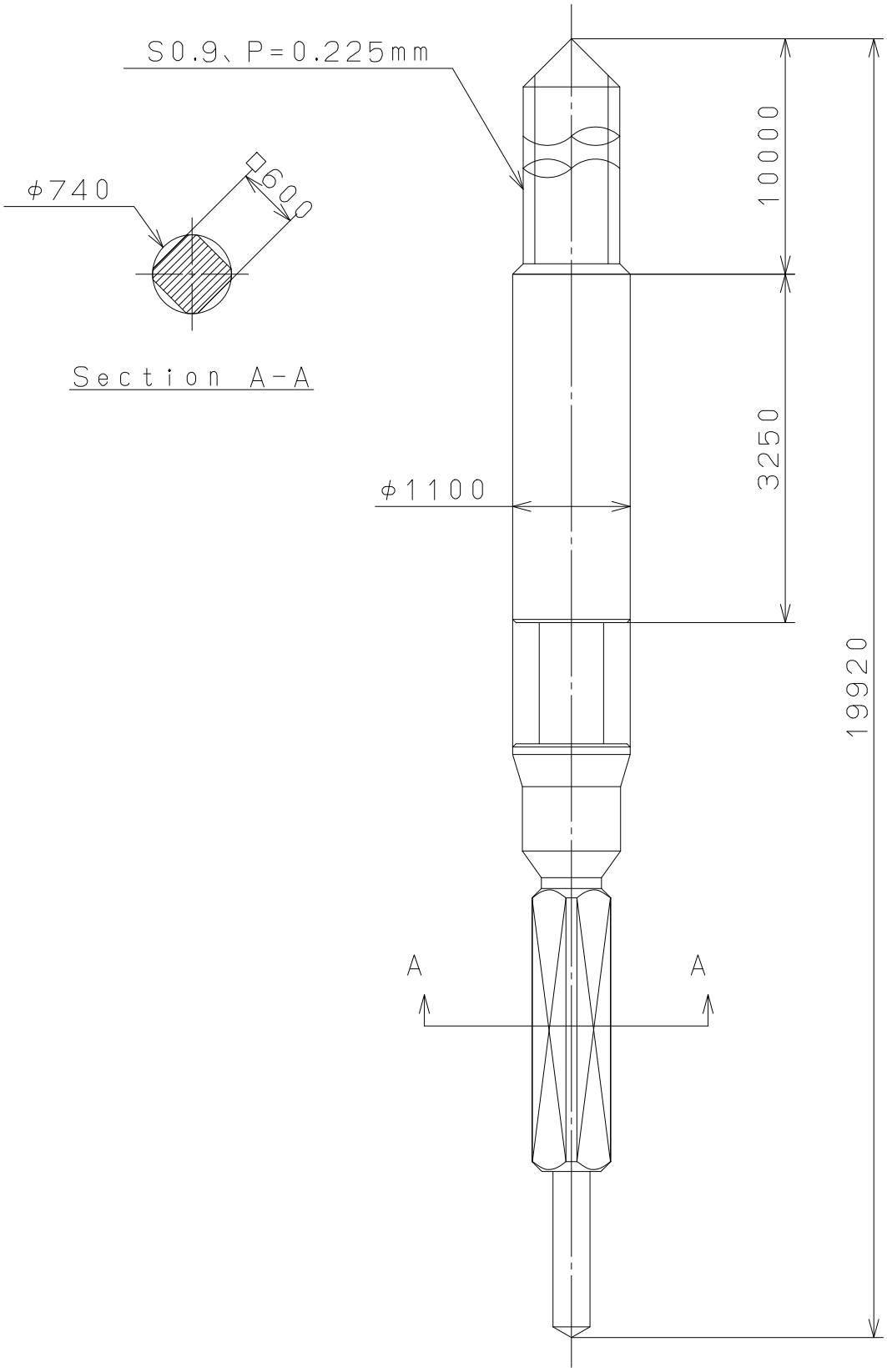
This drawing is provisional and subject to our reconfirmation and/or revision without notice.

2009/03/25 (09:00:17)





⑤			Quantity		Cal.NO.: 9015-24A
④			Unit	1/1000mm	
③			Scale	5 : 1	Parts No.:
②			Date		
①			Drawn		
Mark	Date	Description Appro.	Checked	N.Suzuki	Name:
Alterations			Approved		Indications for Dial
Material					Drawing No.:9015D001
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		
Plating			Angles		CITIZEN WATCH CO.,LTD. TOKYO,JAPAN



⑤			Quantity		Cal.NO.:
④			Unit	1／1000mm	
③			Scale	17：1	Parts No.:
②			Date		065-A05
①			Drawn		
Mark	Date	Description Appro.	Checked	N.Suzuki	Name:
Alterations			Approved		SETTING STEM
Material					Drawing No.:A050S000
Heat Treatment			General Tolerances		MIYOTA
Hardness			Dimensions		
Plating			Angles		CITIZEN WATCH CO.,LTD. TOKYO,JAPAN

MIYOTA

Cal. 9015

AUTOMATIC & MANUAL WINDING MOVEMENT WITH DATE

Basic specification

Ligne	11-1/2'''
Overall diameter	Φ26.0mm
Case fitting diameter	Φ25.6mm
Total height	3.90mm
Vibration frequency	28800 vibrations per hour
Jewels	24 Jewels

Function

Automatic & manual winding
Display by means of hands: hour, minute, second.
Date calendar
Stop second device
Shock-absorber for balance staff

Technical characteristics

Balanceable weight of hands

Second hand	Max. 0.60μN・m
Minute hand	Max. 1.25μN・m
Hour hand	Max. 1.50μN・m

Hands fitting force

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

Lift angle 51°

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

Time performance

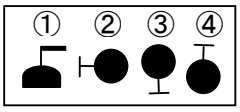
Accuracy	-10～30 seconds/day
Posture difference	Under 40 seconds/ day
Running time	More than 42 hours

※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.

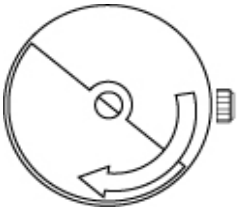


※Direction of 4 postures ①Date Dial side Up ②6 o'clock side up ③9 o'clock side up ④3 o'clock side up

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 : Clockwise (seeing from case back side)



Operating method

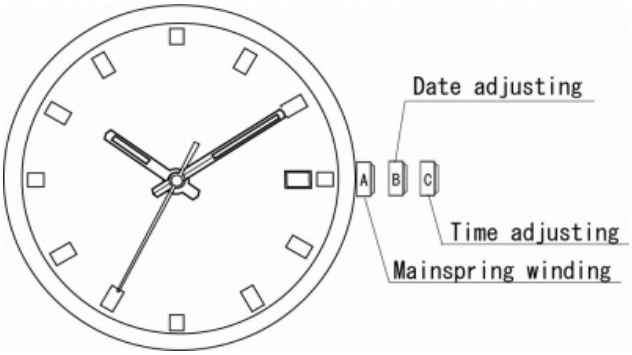
Winding the mainspring, adjusting the hand, date is done by the below procedure.

(1) Winding the mainspring
Automatic winding watch can be also manual-winded by turning the crown in "A" position.
Wind 15 ~ 20 times clockwise until second hand starts to move naturally.

(2) Adjusting date
Adjust the date by rotating the crown in "B" position.

* If the date is adjusted between the hours of around 8:30 PM and 2:00 AM the date may not change on the following day.

(3) Adjusting time
Rotate the crown in "C" position and adjust the standard time.
Then check if it is morning or afternoon and adjust correctly.



Separated parts

Plastic movement holder	**500-002 x 1**
Winding stem	**065-A05 x 1**
Screw for dial fixing	**929-808 x 2**
Spacer	**212-A47 x 1**

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CITIZEN WATCH CO., LTD.