

9100 9110 9120 9122 9130 9132



Size
<ligne> 13 1/2'''

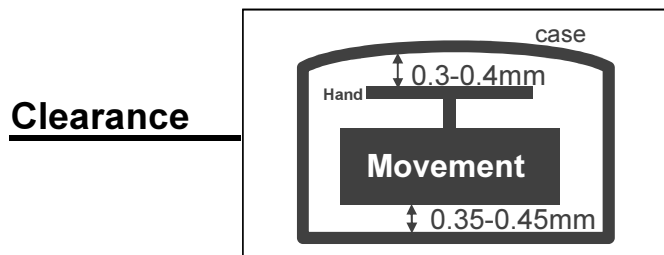
Height
<mm> 5.52

Accuracy
<per Day> -10~+30 sec

Posture Difference
(under) 40 sec

Running time
(more than) 40 hours

Vibration Frequency
<per Hour> (vibration) 28800

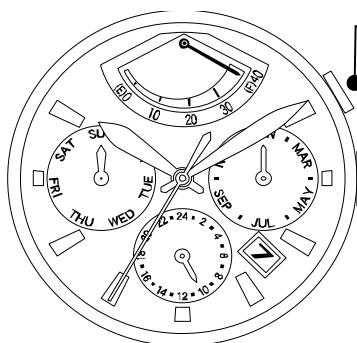
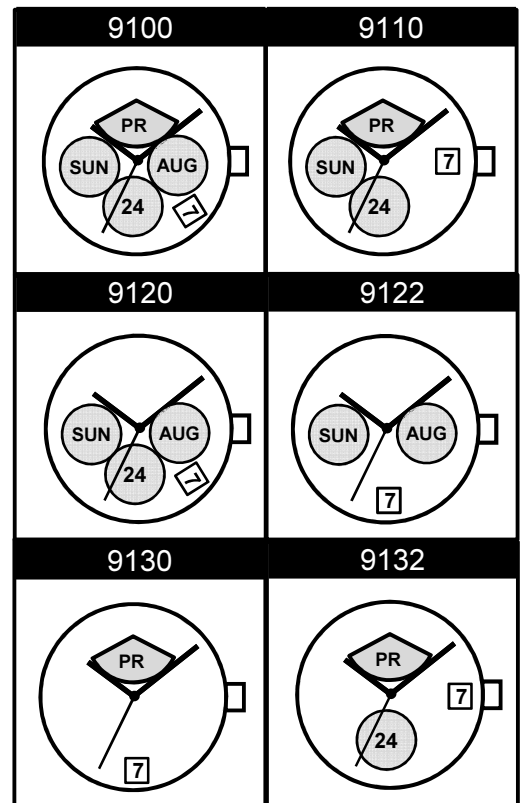
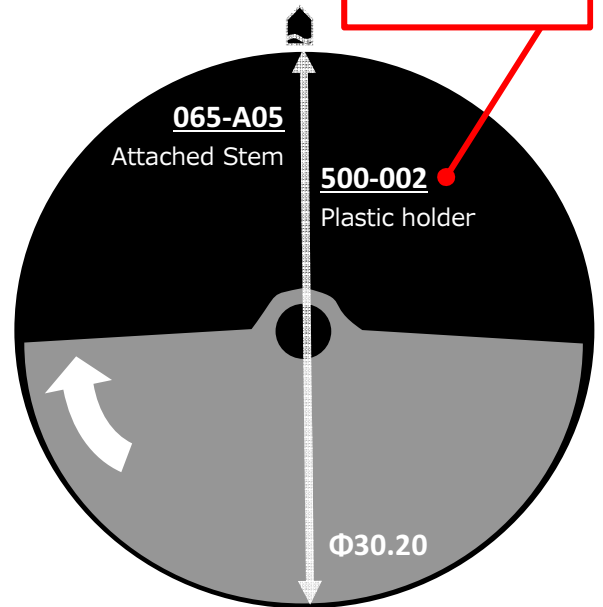


Jewels 26 pcs

Lift Angle 51 degree

Original Package 100 pcs

Exchangeable with
- casing clamps
- screws



Setting the Month
DO NOT set Month
between 10:30pm (31st) - 0:00am(1st)

Setting the Time

Setting the Date and Day
DO NOT set Date between 8:30pm - 2:00am
DO NOT set Day between 11:30pm - 4:00am

MIYOTA

Cal. 91**

9100, 9110, 9120, 9122, 9130, 9132



AUTOMATIC & MANUAL WINDING MOVEMENT WITH MULTIFUNCTION

Basic specification

Ligne	13-1/2'''
Overall diameter	Φ30.2mm
Case fitting diameter	Φ25.6mm
Total height	5.52mm
Vibration frequency	28800 vibrations per hour
Jewels	26 Jewels

Function

Automatic & manual winding
Display by means of hands: hour, minute, second.
Date calendar
Day / Month / 24Hours display by means of hands
Power reserve display
Stop second device
Shock-absorber device 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
Small hand	Max. 0.04μN·m
Power reserve hand	Max. 0.25μN·m

Hands fitting force

Second hand	Max. 30N
Minute hand	Max. 50N
Hour hand	Max. 50N
Small hand	Max. 30N
Power reserve hand	Max. 30N

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 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>

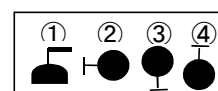
Accuracy

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

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



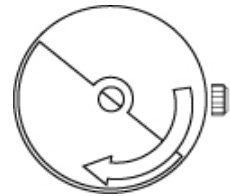
Running time

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 : Clockwise (seeing from case back side)



Operating method

Winding the mainspring, adjusting the hand, month/day/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 Day

Adjust the day by rotating the crown counter-clockwise in "B" position.

(3) Adjusting date

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

(4) Adjusting time

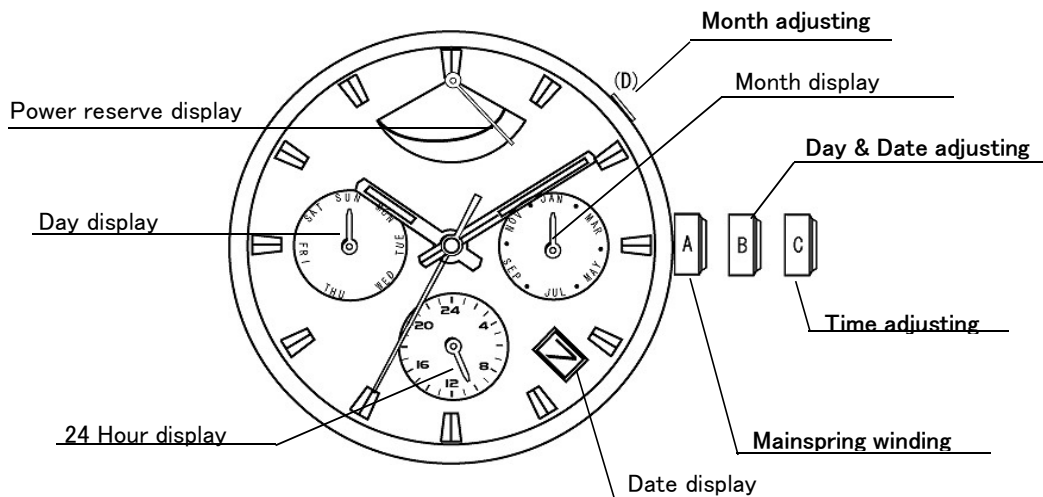
Rotate the crown in "C" position and adjust the standard time.

Then check if it is morning or afternoon and adjust correctly.

(5) Adjusting month

Push the button "D" and adjust the month.

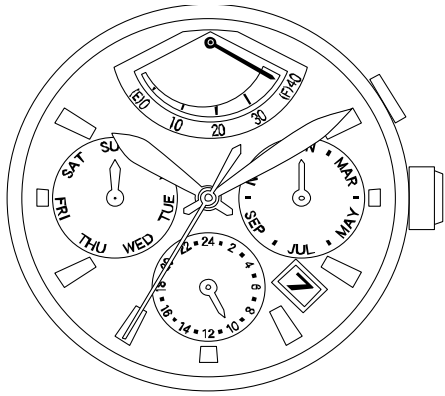
※If the button is not pushed to the end, the month is not changed perfectly.



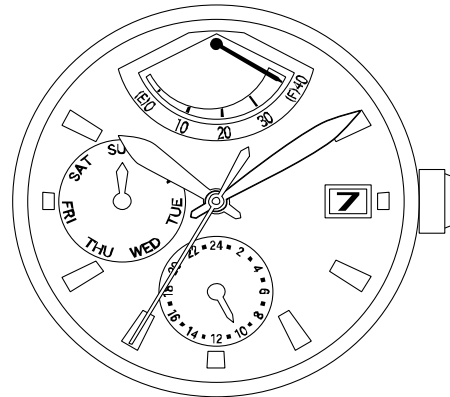
Separated parts

Plastic movement holder	500-002 x 1
Winding stem	065-A05 x 1

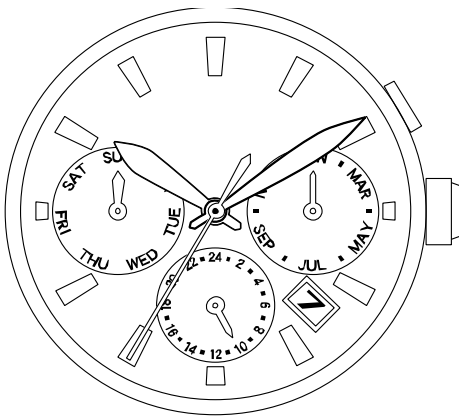
Variation



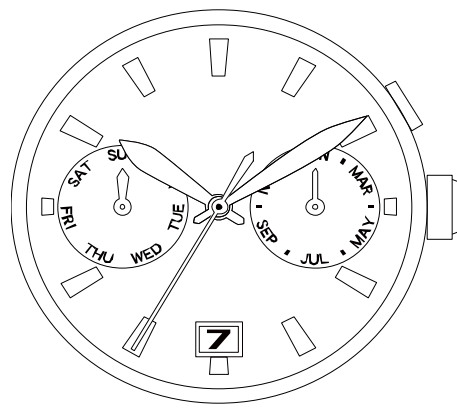
9100



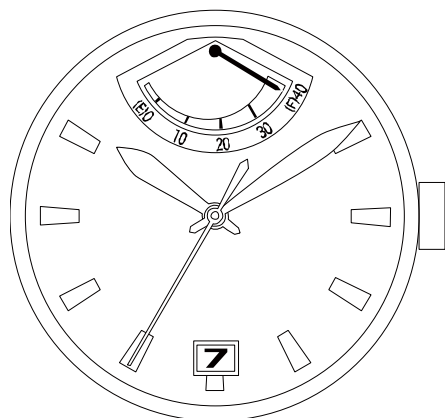
9110



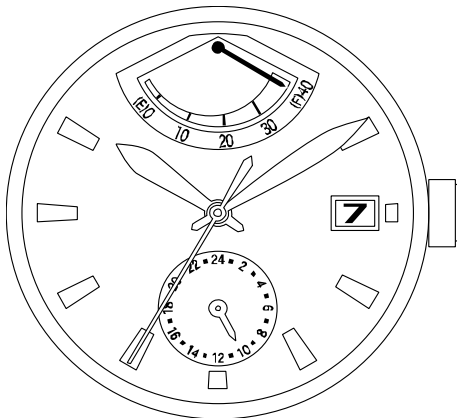
9120



9122



9130



9132

Feature

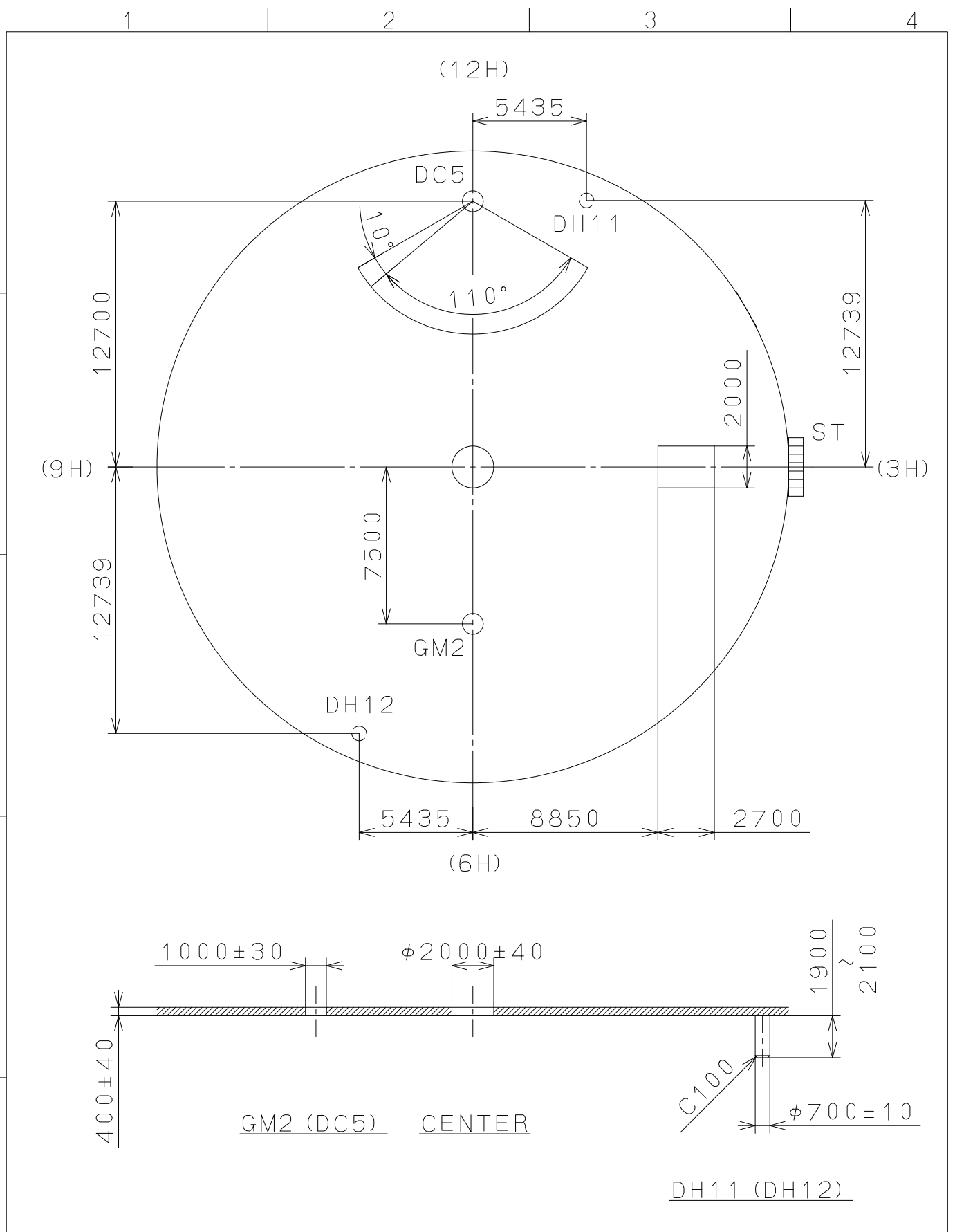
	9100	9110	9120	9122	9130	9132
Hour	○	○	○	○	○	○
Minute	○	○	○	○	○	○
Second	○	○	○	○	○	○
Date	○	○	○	○	○	○
Day	○	○	○	○	—	—
Month	○	—	○	○	—	—
24 Hour	○	○	○	—	—	○
Power Reserve	○	○	—	—	○	○

These specifications might be changed without prior notice.

CITIZEN WATCH CO., LTD.

confidential papers 2012/12/05 (09:12:18)

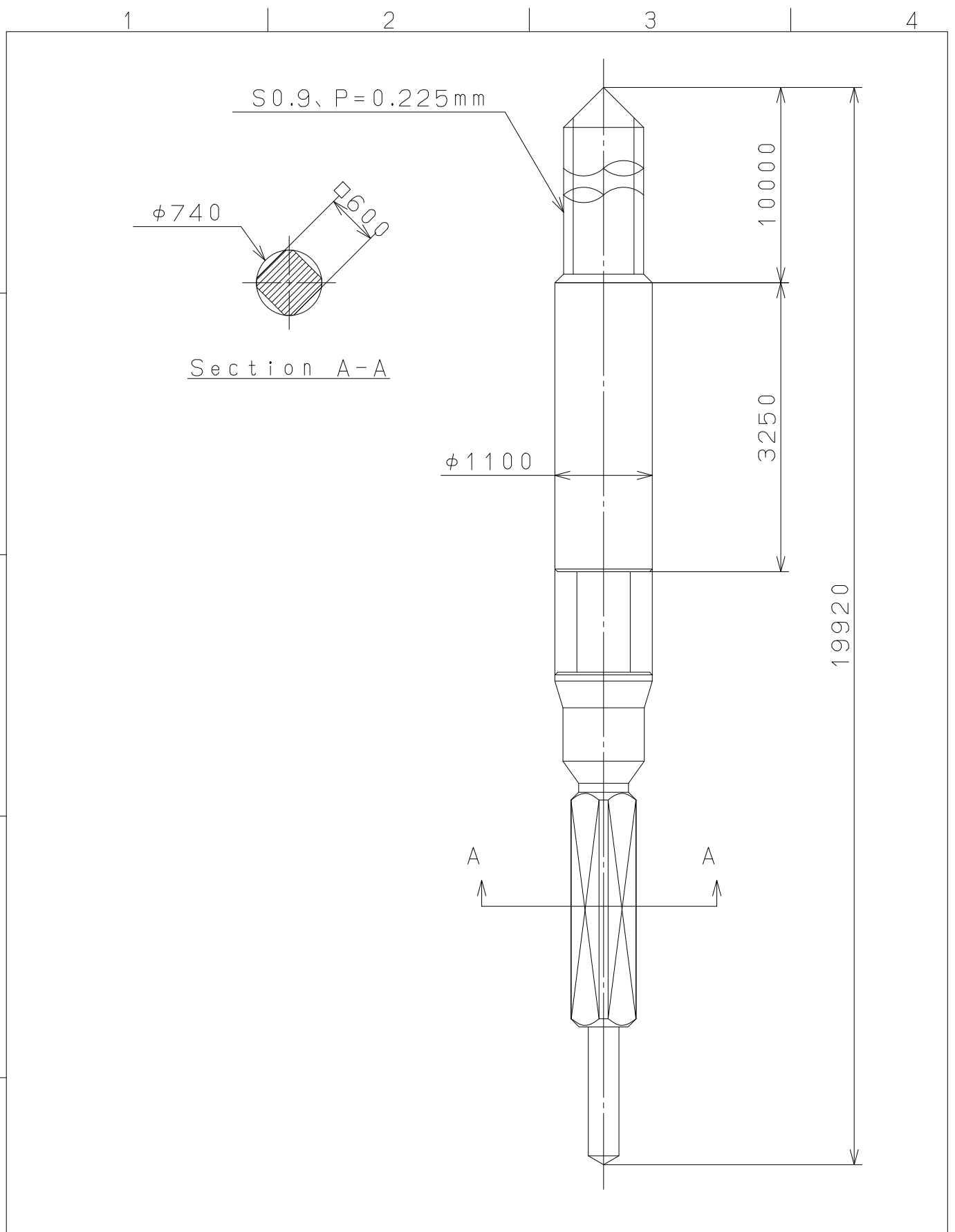
This drawing is provisional and subject to our reconfirmation and/or revision without notice.



△5			Quantity		Cal.NO.:
△4			Unit	1/1000 _{mm}	9132-20A
△3			Scale	4:1	Parts No.:
△2			Date		
△1			Drawn		
Mark	Date	Description	Appr.	Checked	Name:
		Alterations	Approved	N. Suzuki	Indications for Dial
Material					Drawing No.:9132D000
Heat Treatment			General Tolerances	MIYOTA CITIZEN WATCH CO.,LTD. TOKYO,JAPAN	
Hardness			Dimensions		
Plating			Angles		

2009/03/19 (15:03:29)

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



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

******* CAL.9110/20/22/30/32 MOV'T PARTS LIST *******
ORIGINAL PARTS, MADE IN JAPAN

PART NAME	9110	9120	9122	9130	9132
BALANCE BRIDGE	710-204	710-204	710-204	710-204	710-204
BALANCE WITH HAIRSPRING REGULATED	039-993	039-993	039-993	039-993	039-993
BARREL AND TRAIN WHEEL BRIDGE	701-J09	701-J09	701-J09	701-J09	701-J09
BARREL COMPLETE	001-995	001-995	001-995	001-995	001-995
BARREL LOWER WHEEL	901-A56	-	-	901-A56	901-A56
BREAKELEVER FOR SECOND HAND	269-402	269-402	269-402	269-402	269-402
CANNON PINION WITH DRIVING WHEEL	028-A22	028-A22	028-A22	028-A22	028-A22
CALENDAR CORRECTOR FINGER	106-860	106-860	106-860	106-860	106-860
CALENDAR CORRECTOR WHEEL	213-616	213-616	213-616	213-616	213-616
CALENDAR CORRECTOR WHEEL SPRING	903-A18	903-A18	903-A18	903-A18	903-A18
CALENDAR PLATFORM	713-160	713-160	713-160	713-160	713-160
CENTER WHEEL BRIDGE	702-201	702-201	702-201	702-201	702-201
CENTER WHEEL & PINION	012-A20	012-A20	012-A20	012-A20	012-A20
CLICK	060-551	060-551	060-551	060-551	060-551
CLICK SPRING	903-A15	903-A15	903-A15	903-A15	903-A15
CLUTCH WHEEL	064-991	064-991	064-991	064-991	064-991
CROWN WHEEL	058-501	058-501	058-501	058-501	058-501
DATE DIAL	108-N4XX	108-K9XX	108-K9XX	108-N4XX	108-N4XX
DATE JUMPER	109-875	109-875	109-875	109-875	109-875
24HOUR DRIVING WHEEL	100-818	100-818	-	-	100-818
24HOUR WHEEL	103-A13	103-A13	103-A13	103-A13	103-A13
DATE DIAL GUARD	293-A18	293-A18	293-A18	293-A18	293-A18
DAY CORRECTOR LEVER	116-993	116-993	116-993	-	-
DAY WHEEL	200-156	200-156	200-156	-	-
DAY JUMPER	209-251	209-251	209-251	-	-
DIAL WASHER 1	078-120	078-120	078-120	078-120	078-120
DIAL WASHER 2	078-660	-	-	078-660	078-660
ESCAPE WHEEL AND PINION	032-991	032-991	032-991	032-991	032-991
FOURTH WHEEL AND PINION	023-A27	023-A27	023-A27	023-A27	023-A27
HOUR WHEEL	075-A63	075-A63	075-A63	075-A63	075-A63
INTERMEDIATE DATE WHEEL(1)	087-A93	087-A93	087-A93	087-A93	087-A93
INTERMEDIATE DATE WHEEL(2)	087-A94	087-A94	087-A94	087-A94	087-A94
INTERMEDIATE DATE CORRECTING WHEEL	087-A72	087-A72	087-A72	087-A72	087-A72
INTERMEDIATE POWER RESERVE WHEEL(1)	087-A95	-	-	087-A95	087-A95
INTERMEDIATE POWER RESERVE WHEEL(2)	087-A96	-	-	087-A96	087-A96
INTERMEDIATE POWER RESERVE WHEEL(3)	087-A97	-	-	087-A97	087-A97
INTERMEDIATE POWER RESERVE WHEEL(4)	087-B01	087-B01	087-B01	087-B01	087-B01
INTERMEDIATE REDUCTION WHEEL AND PINION 1	088-254	088-254	088-254	088-254	088-254
INTERMEDIATE REDUCTION WHEEL AND PINION 2	088-252	088-252	088-252	088-252	088-252
INTERMEDIATE REDUCTION WHEEL AND PINION 3	088-253	088-253	088-253	088-253	088-253
INTERMEDIATE REDUCTION WHEEL AND PINION 4	138-251	138-251	138-251	138-251	138-251
INTERMEDIATE REDUCTION WHEEL AND PINION 1 SPRING-CLIP	115-101	115-101	115-101	115-101	115-101
JEWELLED PALLET FORK AND STAFF	035-702	035-702	035-702	035-702	035-702
CAP JEWEL MOUNTED (1)	094-040	094-040	094-040	094-040	094-040
LOWER PLATE FOR BARREL COMPLETE	719-058	719-058	719-058	719-058	719-058
LOWER PLATE FOR CALENDAR	719-065	719-056	719-056	719-065	719-065
MINUTE WHEEL AND PINION	072-999	072-999	072-999	072-999	072-999
MONTH CORRECTOR LEVER	-	265-202	265-202	-	-
MONTH CORRECTOR SPRING	-	903-A19	903-A19	-	-
MONTH JUMPER	-	109-874	109-874	-	-
MONTH WHEEL	-	294-807	294-807	-	-
MONTH DRIVING WHEEL	-	103-A12	103-A12	-	-
OPERATING LEVER	257-152	257-152	257-152	257-152	257-152
OSCILLATING WEIGHT	119-A57	119-A58	119-A68	119-A59	119-A60
PALLET BRIDGE	708-091	708-091	708-091	708-091	708-091
POWER RESERVE WHEEL	189-163	-	-	189-163	189-163
RATCHET SLIDING WHEEL 1	087-B08	087-B08	087-B08	087-B08	087-B08
RATCHET SLIDING WHEEL 2	087-A74	087-A74	087-A74	087-A74	087-A74
RATCHET WHEEL	059-802	059-802	059-802	059-802	059-802
REVERSING WHEEL	141-251	141-251	141-251	141-251	141-251
SCREW FOR BALANCE BRIDGE	923-998	923-998	923-998	923-998	923-998
SCREW FOR BARREL AND TRAIN WHEEL BRIDGE (×5)	923-998	923-998	923-998	923-998	923-998
SCREW FOR CALENDAR PLATFORM	929-700	929-700	929-700	929-700	929-700
SCREW FOR CENTER WHEEL BRIDGE	923-998	923-998	923-998	923-998	923-998
SCREW FOR CLICK	922-820	922-820	922-820	922-820	922-820
SCREW FOR CLICK SPRING	922-820	922-820	922-820	922-820	922-820
SCREW FOR DATE DIAL GUARD	929-700	929-700	929-700	929-700	929-700
SCREW FOR DATE DIAL GUARD (×4)	930-702	930-702	930-702	930-702	930-702
SCREW FOR LOWER PLATE FOR BARREL COMPLETE (×2)	922-940	922-940	922-940	922-940	922-940
SCREW FOR LOWER PLATE FOR CALENDAR (×2)	923-998	923-998	923-998	923-998	923-998
SCREW FOR OSCILLATING WEIGHT(×3)	923-999	923-999	923-999	923-999	923-999
SCREW FOR PALLET BRIDGE(×2)	922-820	922-820	922-820	922-820	922-820
SCREW FOR SETTING LEVER JUMPER (×2)	923-630	923-630	923-630	923-630	923-630
SCREW FOR STUD	927-020	927-020	927-020	927-020	927-020

SCREW FOR TRAIN WHEEL GUARD(MANUAL- WINDING)(x3)	930-701	930-701	930-701	930-701	930-701
SCREW FOR TRAIN WHEEL GUARD(AUTOMATIC)(x 2)	930-701	930-701	930-701	930-701	930-701
SCREW FOR UPPER PLATE FOR CALENDER (x 4)	923-998	923-998	923-998	923-998	923-998
SETTING LEVER	067-995	067-995	067-995	067-995	067-995
SETTING LEVER SPRING	077-996	077-996	077-996	077-996	077-996
SETTING LEVER PIN	906-A12	906-A12	906-A12	906-A12	906-A12
SETTING STEM	065-A05	065-A05	065-A05	065-A05	065-A05
SETTING WHEEL	076-751	076-751	076-751	076-751	076-751
SPIRAL SPRING WITH JEWEL (1)	098-090	098-090	098-090	098-090	098-090
SPIRAL SPRING WITH JEWEL (2)	098-090	098-090	098-090	098-090	098-090
THIRD WHEEL AND PINION	017-A01	017-A01	017-A01	017-A01	017-A01
TRAIN WHEEL GUARD(MANUAL- WINDING)	117-361	117-361	117-361	117-361	117-361
TRAIN WHEEL GUARD(AUTOMATIC)	117-354	117-354	117-354	117-354	117-354
CAP JEWEL MOUNTED (2)	094-010	094-010	094-010	094-010	094-010
UPPER PLATE FOR CALENDER	703-112	703-114	703-114	703-112	703-112
WINDING PINION	063-351	063-351	063-351	063-351	063-351
YOKE	071-995	071-995	071-995	071-995	071-995
** LONGER SETTING STEM(24.0MM) **	065-A25	065-A25	065-A25	065-A25	065-A25

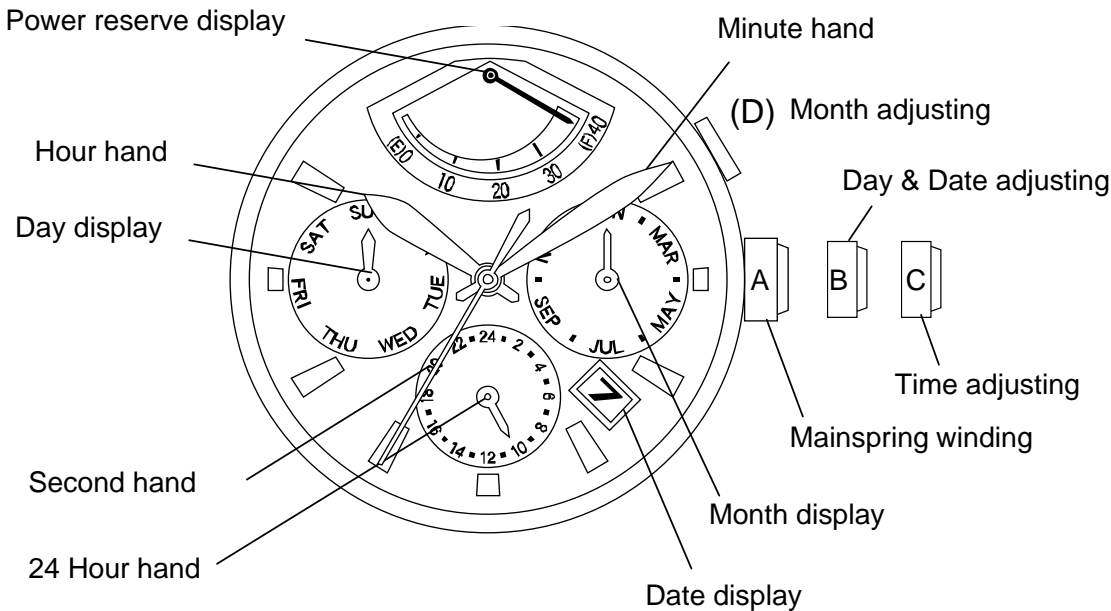
MIYOTA

UNIVERSAL MASTERPIECE BORN IN JAPAN
MADE IN JAPAN
METAL MOVEMENT

INSTRUCTION MANUAL FOR MIYOTA WATCH MOVEMENT CALIBRE NO. 91XX AUTOMATIC MOVEMENT

- 1) DISPLAYS AND BUTTONS
- 2) WINDING THE MAINSPRING
- 3) ADJUSTING DAY
- 4) ADJUSTING DATE
- 5) ADJUSTING TIME
- 6) ADJUSTING MONTH

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 DAY (Cal. 9100 / 9110 / 9120)

Adjust the day by rotating the crown counter-clockwise in "B" position.

4) ADJUSTING DATE

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

5) ADJUSTING TIME

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

6) ADJUSTING MONTH (Cal. 9100 / 9120)

Push the button "D" and adjust the month.

※If the button is not pushed to the end, the month is not changed perfectly.

These specifications might be changed without prior notice.

CITIZEN WATCH CO., LTD.