MOVEMENT SPECIFICATIONS

CAL.FS00/01, FS10/11, FS20/21

10-1/2 LIGNE, 3 EYES CHRONOGRAPH ANALOGUE QUARTZ, 0 JEWEL

MANUFACTURED IN JAPAN

1.BASIC SPECIFICATIONS

(1) Cal. No. *TO CONFIRM WITH MOV'T DRAWING ATTACHED

CALIBRE	FS00	/	FS10	FS20	FS01 /	FS11 FS21
PUSHER	SLANTED				PARALLEL	
Ligne Size*mm	10-1/2 23.7X22mm (3H-9H)					
Date	0					
Total height	4.13mm		5.10mm	5.10mm	4.28 /	5.25 5.25
Figure (push button placed angle)	0 3 8 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	Slante	10 2 2 2 4 4 5 4 5 4 5 4 5 4 5 5 4 5 5 4 5	11 12 1 10 = 2 1 1 12 1 2 1 12 1	9 3	Parallel
	FS00	/	FS10	FS20	FS01	(FS11) (FS21)
Battery & Life	SR626SW 2YEARS*					

* based on 1 hour/day chronograph use

second hand (6H) 1

(2) Time standard

Type of quartz: Tuning fork type quartz crystal

Frequency: 32,768Hz

Accuracy: +/-20 s/month worn under normal circumstances

Second hand

(3) Balanceable weight of hand

Minute hand Max. 0.4 μ N.m Second hand Max. 0.035 μ N.m Other small hands Max. 0.02 μ N.m

(4) Function FS10 / FS11 Chronograph 1/1 sec. Basis (Up to 59 min. 59 sec.) Powercell Saving Reset Mechanism(PSRM) Over-loading Compensation Device(OLCD) Digital Frequency Control(DFC) for time adjustment chrono 60 min. (9H) FS00 / FS01 (EYE POSITION) Chronograph second hand 24-hour hand second hand (6H) 1 Chronograph Button A minute hand Minute hand FS20 / FS21 Hour hand Normal crown chrono 60 min. position (9H) Button B Calendar

2.SEPARATED PARTS

Setting stem x1

Code 065-549
Length from movement center to far end 20.00mm of setting stem

Thread..... Ф0.9mm x 9.06mm

3.OTHERS

* Measurement of time rate

The unit(gate) time of measurement must be set at "10 sec." or integer fold value of 10 sec. owing to the DFC system, and the measurement must be performed in the form of complete watch.

* Marking on movement

JAPAN MIYOTA CO. (CAL. NO.) NO JEWELS

* Typical clearance

Mov't - Caseback Top of hands - Glass minimum 200 microns 300 - 400 microns *

* Note

Please use aluminum material hand for Chrono second hand

* TACHYMETER

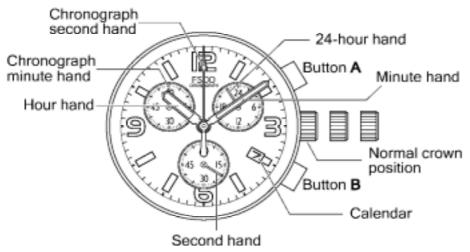
The tachymeter is the device which measures the speed of an automobile. Knowing is how many seconds the car covers a distance of 1km, the meter can measure the approximate average speed per hour during a journey (up to the maxinum measurable range of tachymeter is 60 seconds.)

If the chronograph is started at the same time as measurement, and stopped after 1 km, the average speed per hour can be determined according to the position of the second hand. If the car covers the distance of 1km in 45 seconds, the average hourly speed during the journey will be about 80 km.

^{*} subject to the glass, case structure, and the length of hand

4 INSTRUCTION MANUAL

A) DISPLAYS AND BUTTONS



B) SETTING THE TIME

- 1. Pull the crown out to the 2nd-click position so that the second hand stops at (0) position.
- 2. Turn the crown to set the hour and minute hands.

C) SETTING THE DATE

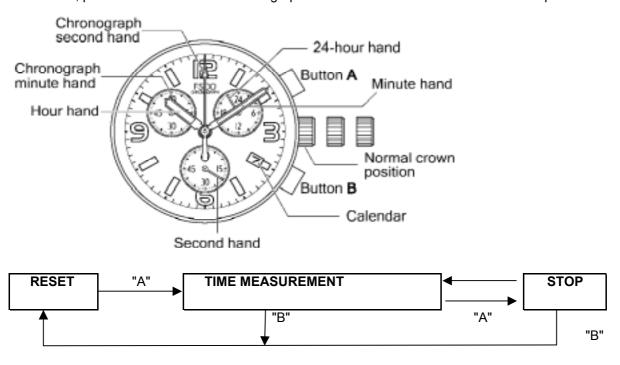
- 1. Pull the crown out to the 1st position.
- 2. Turn the crown by clockwise to set the date.
 - * If the date is set between the hours of around 9:00 PM and 1:00 AM, the date may not change on the following day.
- 3. After the date has been set, push the crown back to the normanl position.

D) USING THE CHRONOGRAPH

This chronograph is able to measure and display time in 1/1 second united up to maxinum of 1 hour.

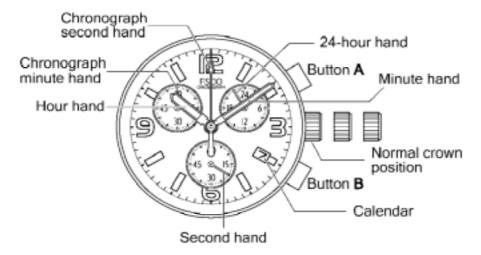
Measuring time with the chronograph

- 1. The chronograph can be started and stopped each time button "A" is pressed.
- 2. To reset, press button "B" and the chronograph second & minute hands return to their 0 positions.



E) CHRONOGRAPH RESET (INCL. AFTER REPLACING BATTERY)

This procedure should be performed when the chronograph second hand do not return to the 0 second position after the chronograph has been reset, and including after the battery has been replaced.

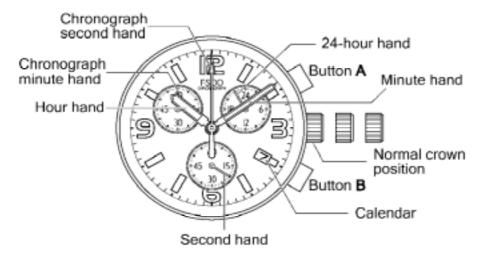


- 1. Pull the crown out to the 2nd position.
- 2. Press button "A" to set the chronograph second hand to the 0 position.
- 3. The chronograph hands can be advanced rapidly by continuously pressing button "A".
- 4. Once the hands have been zeroed, reset the time and return the crown to its normal position.
- * Do not return crown to normal position while chronograph second hand return to 12:00 (ZERO) position.

Hand stops on the way when crown are returned to normal position and these positions are recognized as 12:00 (ZERO) position.

F) FITTING METHOD OF HANDS

Place the module on case back shown in the figure and position the reference hand, then fit the hands according to the following procedure.



- 1. After the dial assembling, push A first and then B to make sure all the hands is not moving.
- 2. Pull out the crown to the time setting position.
- 3. Turn the crown anticlockwise, and stop it just after the date changes. (When the date starts changing, turn the crown very slowly. And stop it when it changes the date.)
- 4. Push in the crown by one step, taking care not to turn it.
- 5. Fit the reference hand, hour hand and minute hand to the 12-o'clock position.

 When fitting the hands, remove the case back and place the movement on work stand.

This specifications might be changed without prior notice.

MIYOTA This drawing is provisional and subject to our reconfirmation and/or revision without notice. CoordDH1 DH1~DH2= 2800 200 巾 S 10813 8364 -8455 -8078 -7303 \cap 8494 9203 \leftarrow Ø 20947 0 ŠZ, s \bigcirc 7 0 M D r o m \supset Ú -2722 -4886 S Ω 8889 8802 10529 108 \bigcirc 0197 PB \leftarrow 3000 \bigcirc \cap \cap (± 30) Φ \odot 000 \supset \supset 1200 1200 2000 N 2000 |JJ \odot ter) (H) (+ () ω 3600 _5 0_q 000 D I H o o k ω 1950 000 ω Se 250 ction 5177 ω 4769 $(\phi 23700)$ Ω T W \widehat{S} \bigcirc 4 \bigcirc -850 0 \square ω̈́ 7986 6423 \cap a 1~a6 0 450 \supset 0 0) 600 20000 250 000 ω 9060 10940 \supset 0 <u>d</u> 800 (9 H) Nω (chrono (24h)DC4 0 $\subseteq \leq$ (3H) 395 0 \subset \bigcirc \bigcirc 3000 6250 6250 \rightarrow \bigcirc 9 minute 300 (P) ω \supset leat Treatmen lateria Ω \perp 8190 \bigcirc \Box 0 ω Date 0 0 0 а П Φ terations a 0 DH2 Description 0 100 21800 100 100 x S \leftarrow Φ Appro \exists 3000 MI N 2 0 0 MA X 4 5 0 2 H) 0 0 0 e m o $|\infty|$ 3000 Scale Checked General Approved Dimension U r a w n \bigcirc < (D T 0 | e Date 30 0 0 9 0 0 rances ∞ 0 $(\sim 1, 150)$ M.Fukuda|Name: 0 0 m m 1200 Name 500 Parts Drawing No.: FS20C000 2100 2250 rame (~ 700) 750 N 0 . . . φ21200 (Date dial) ≥ • aper (0°45′) 400(~350) ϕ 170 ± 4 300(~250) 1900(~1850) per (1°30′) FS20 Case φ700+3 -5 0 150 φ1200⁺³² () a s C3 (DC4\ DC7)

