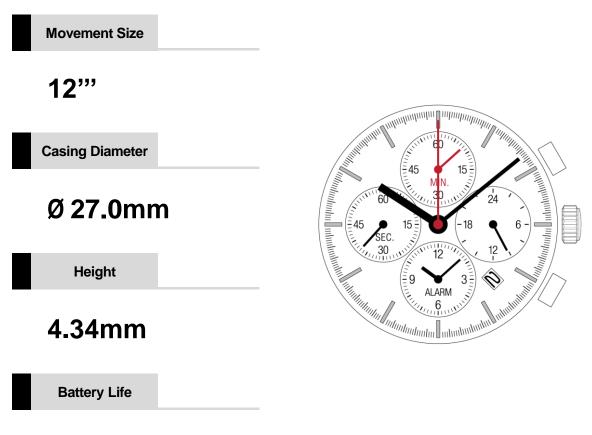


Watch Movement Specification and Drawing

CHRONOGRAPH

Cal. YM64A

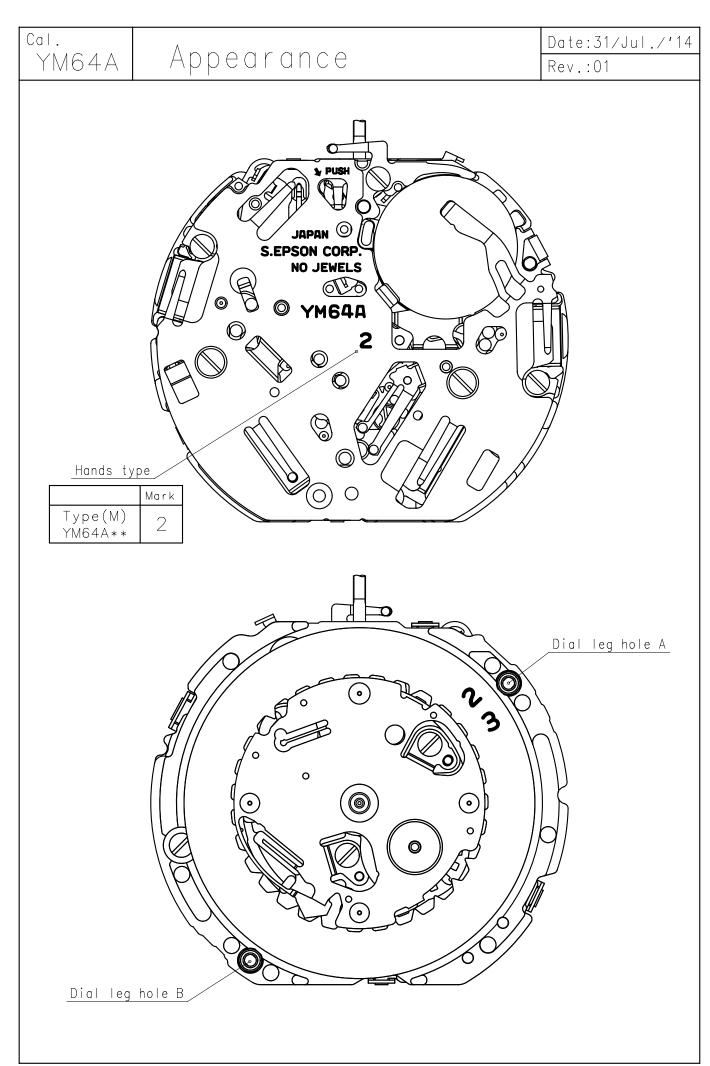


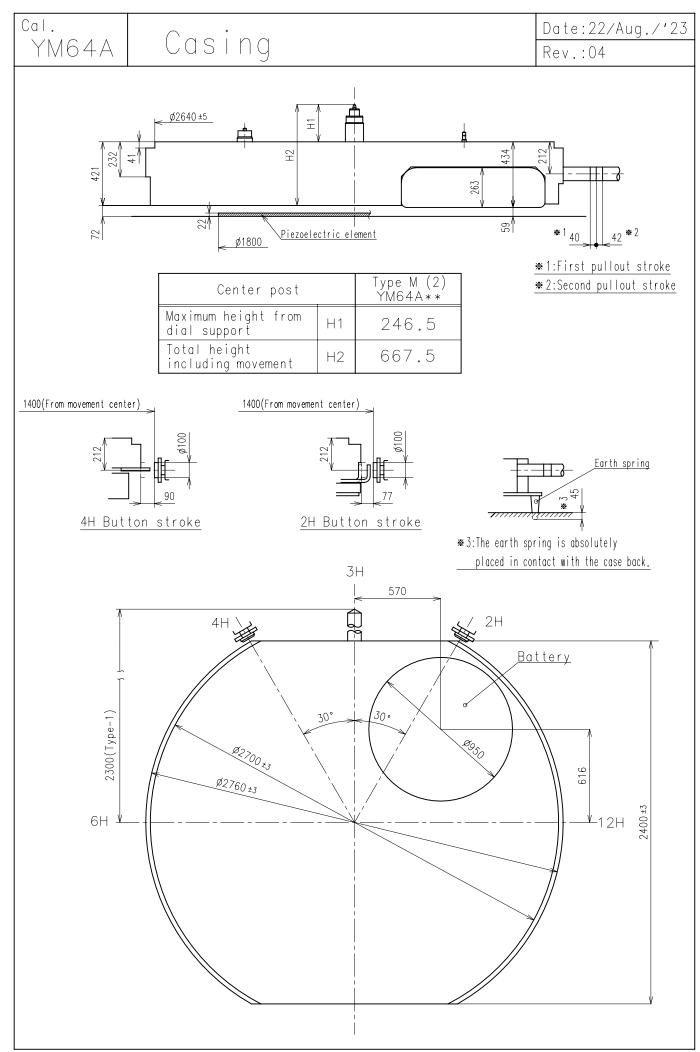
3 years

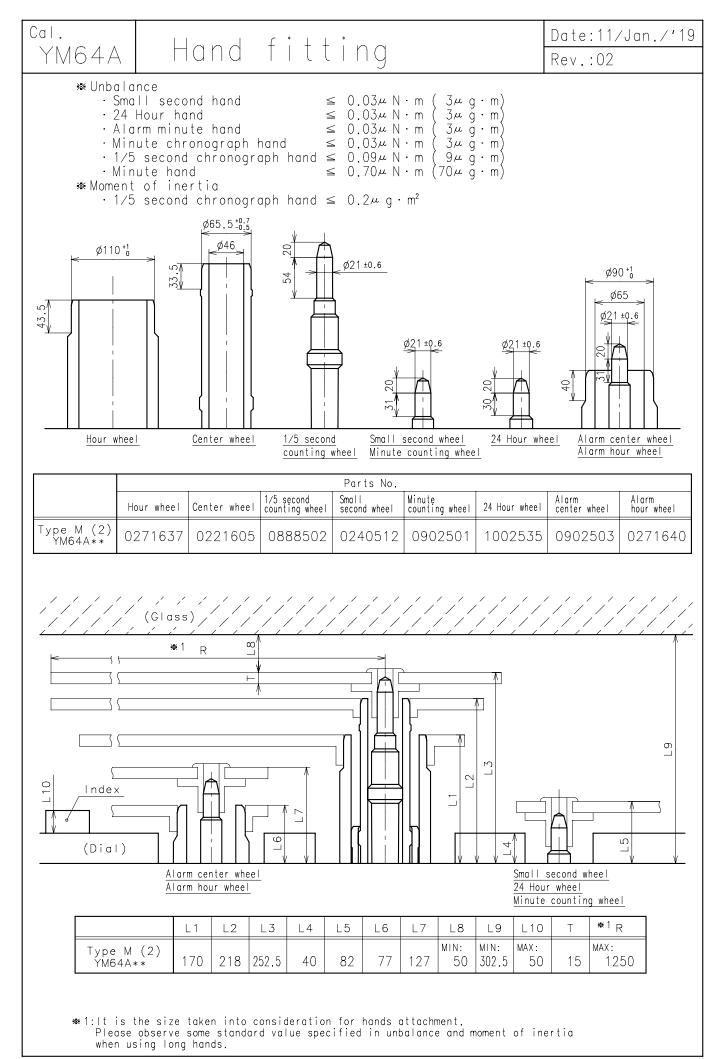
Cal. YM64A

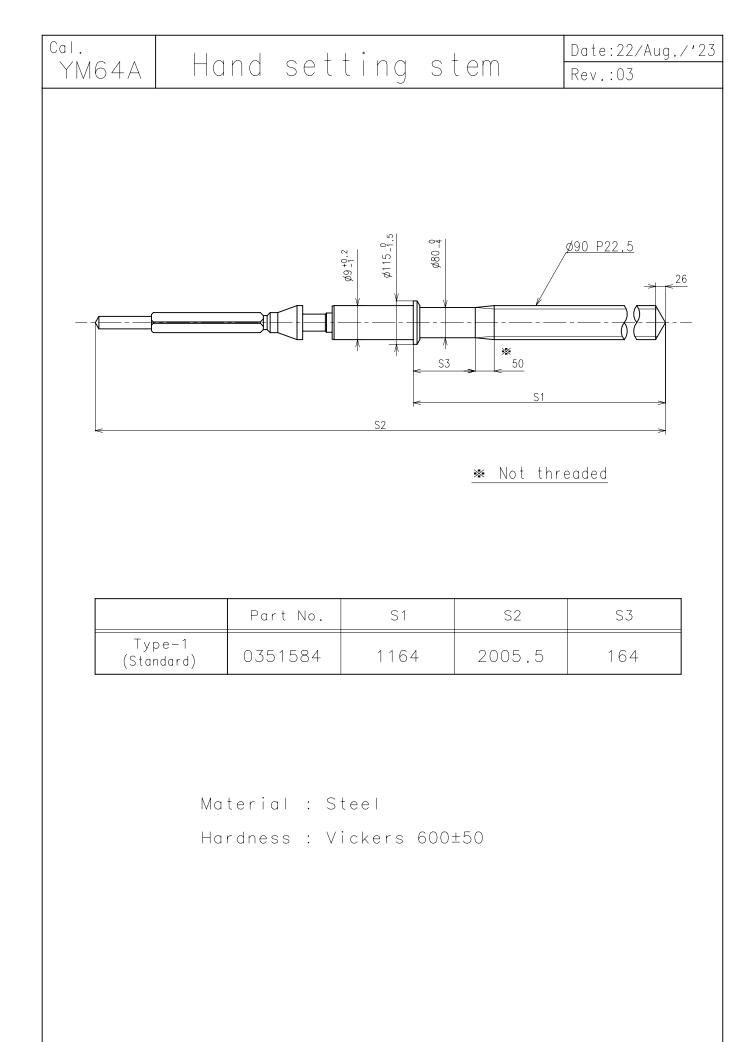
Items	Rev.	Page
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Appearance	01	2
Casing	04	3
Hand fitting	02	4
Hand setting stem	03	5
Dial	01	6
Holding ring for dial	01	7
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Attention of casing part structure	03	9
Operation-01	01	10-01
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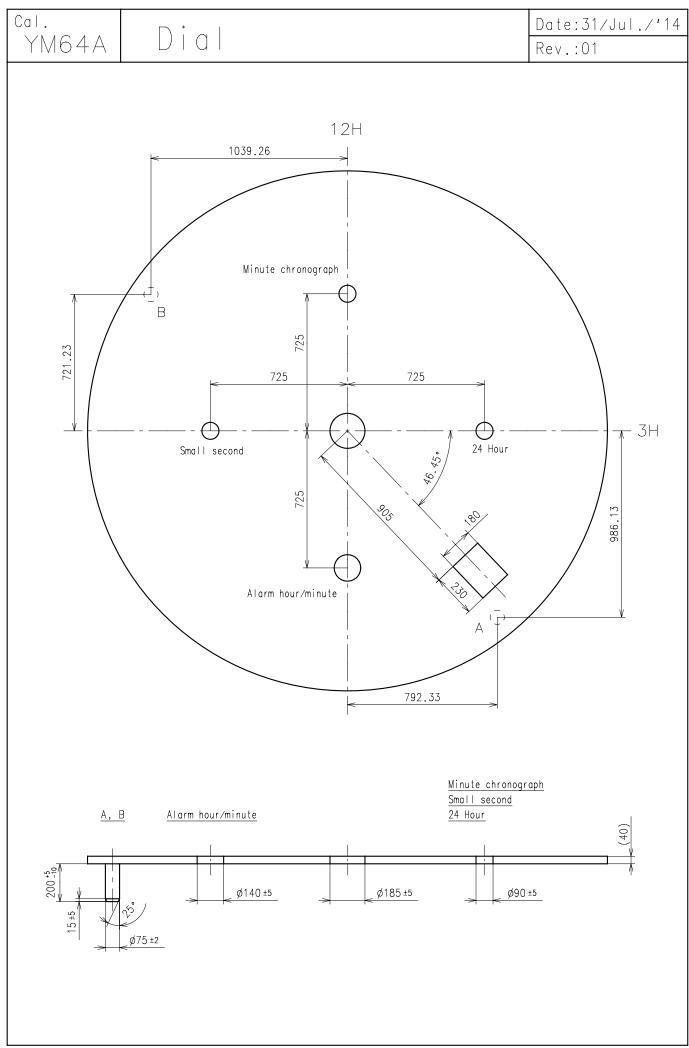
al.				Date : 22/Aug./'23
	YM64A	Specifi	cations	Rev.: 03
	Analo	g Quartz 12''' C	Center second Chronograph and Alarm	Movement
1. [MOVEMENT DI	MENSIONS		
	Outside diameter	ŕ	ϕ 27.60mm (12H-6H) × 24.00mm (3H-9F	l)
	Casing diameter		ф27.00mm (12Н-6Н)	
	Total height		4.34mm (including battery)	
2. 1	TIME STANDA	RD		
	Type of quartz os	scillator	Tuning fork	
	Frequency of qua	artz oscillator	32,768 Hz	
	Accuracy		± 20 seconds per month (on wrist)	
	Operating tempe	-	-5° C to $+50^{\circ}$ C	
	Regulation device	3	Nil (Pre-adjusted)	
-	NDICATOR / F	UNCTIONS		
	3 Hands		Hour / Minute / 1/5second chronograph (C	
	Small hands		Alarm hour and minute (6H) /Small second Minute chronograph (12H) / 24 Hour (3H)	(He) (
	Calendar		Instant setting device for date calendar	
	Reset switch			
		warning function ((BLD)	
	•	and moves at 2-sec		
	Alarm			
	Chronograph		The chronograph can measure up to 60 m	inutes in 1/5 second
			increments, capable of timing 12 hours.	
4. I	FEATURES			
	Jewels		0 Jewels	
	Anti-magnetism		Over 1600A/m (Direct current magnetic fie	,
	Maximum unbala	ince of hands	Small second hand / Alarm minute hand	
			24 Hour hand / Minute chronograph hand 1/5 second chronograph hand	: 0.03 µ N·m : 0.09 µ N·m
			Minute hand	$: 0.7 \mu\text{N}\cdot\text{m}$
	Moment of Inertia	à	1/5 second chronograph hand	: less than 0.2μ g·m ²
5 1	BATTERY			
	Type / Size		Silver oxide battery / ϕ 9.5mm × t 2.73mm	ı
	Recommended b	attery	SR927W	-
	Nominal voltage	-	1.55 V	
	Battery life		Approx. 3 years	
			(2 hours chronograph and 20 seconds ala	rm operation per day)
	Driving current co Operation stopping	•	Approx. 0.80 μ A 0.9 V	
		ARTS (Parts co	•	
	Hand setting ster Holding ring for d		0351584 (Standard) 0866854 (Standard)	
	Battery		SR927W	
	Piezoelectric eler	nent	4589801	
7. 1	TEST OF ACCL	JRACY		
	Equipment to be		SEIKO quartz tester QT-99, QT2100	
	1.1.1.10.00		Greiner quartz timer-C, Witschi Q-tester 4	1000
	Duration of meas	surement	10 seconds	
	Microphone to be		Electromagnetic detection type	

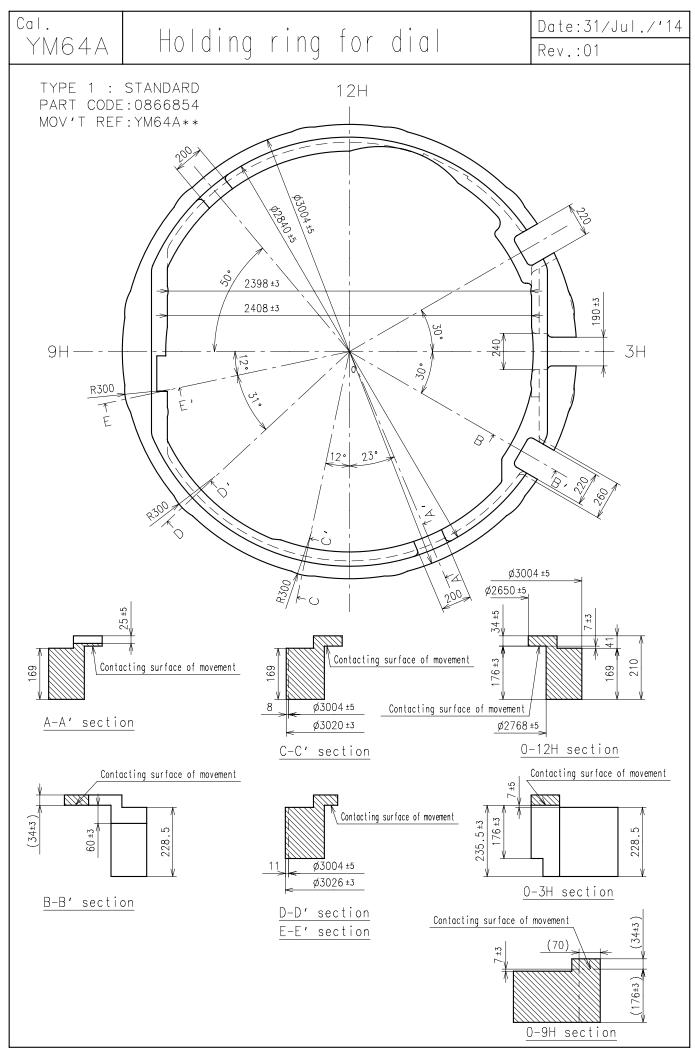












Unit : 1=1/100mm

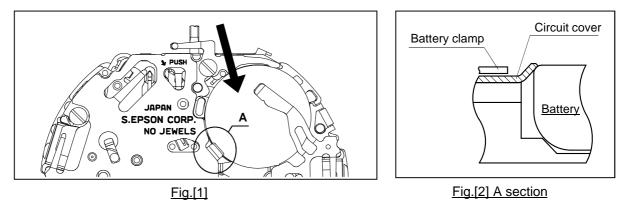
Ρ. 7



Attention for assembly

1. How to replace the battery

- Please use the specified battery to keep the stable performance for a long time.
- Please install the minus part of the battery towards inside of the watch.
- When installing or changing the battery, it is recommended to remove two battery clamp screws first, then remove the battery clamp not to damage the movement parts.
 If you install the battery without removing the battery clamp, please install the battery from [→] direction as illustrated below Fig.[1].
- Install the battery under the circuit cover as illustrated below Fig.[1] and Fig.[2].
- System-reset is not required.
- After installing the battery, set the current time and then set the alarm time same as current time to let the alarm work correctly, set the 1/5 second chronograph hand and minute chronograph hand at "0" position.



2.How to remove the stem

• When removing the stem, pull out the crown at 1st click position and then remove the stem while pressing the hollow portion of setting lever by tweezers. (Refer to the Fig.[3].)

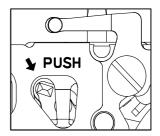


Fig.[3] Crown pulled out at 1st click

3. How to set the hands

- Each hand moves at step interval. Set the each hand at correct position according to the scale on the dial in order not to make a mistake in reading time.
- Do not turn the hand forcibly.

4. How to remove the hands

- When removing the hands, use exclusive fork-shaped tools.
- Do not remove the dial under the condition that any hands are set.

5. How to test the accuracy

When measuring the time accuracy, use specified Quartz Tester and change the gate time in 10 seconds.



1.Minute hand

The center wheel have a safety stopper structure to prevent the minute hand from being pressed too much. However pay attention to the contact between hour hand and minute hand.

2.Holding ring for dial

Use the specified holding ring for dial to prevent rotation of the movement inside of the case in order to stabilize the button operation.

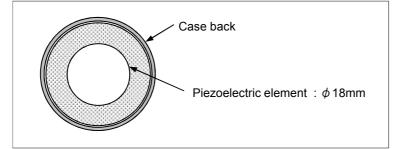
Refer to the [Holding ring for dial] page instruction as to the shape and tolerance.

3.Case

Use the metal case to prevent from the movement mal-function by static electricity.

4. Piezoelectric element

Stick piezoelectric element to the center of case back.



Piezoelectric element must be stuck to case back by thermoplastic adhesive.

Thermoplastic adhesive is already printed to the surface of piezoelectric element.

Heating temperature and time to stick piezoelectric element is shown in the following table.

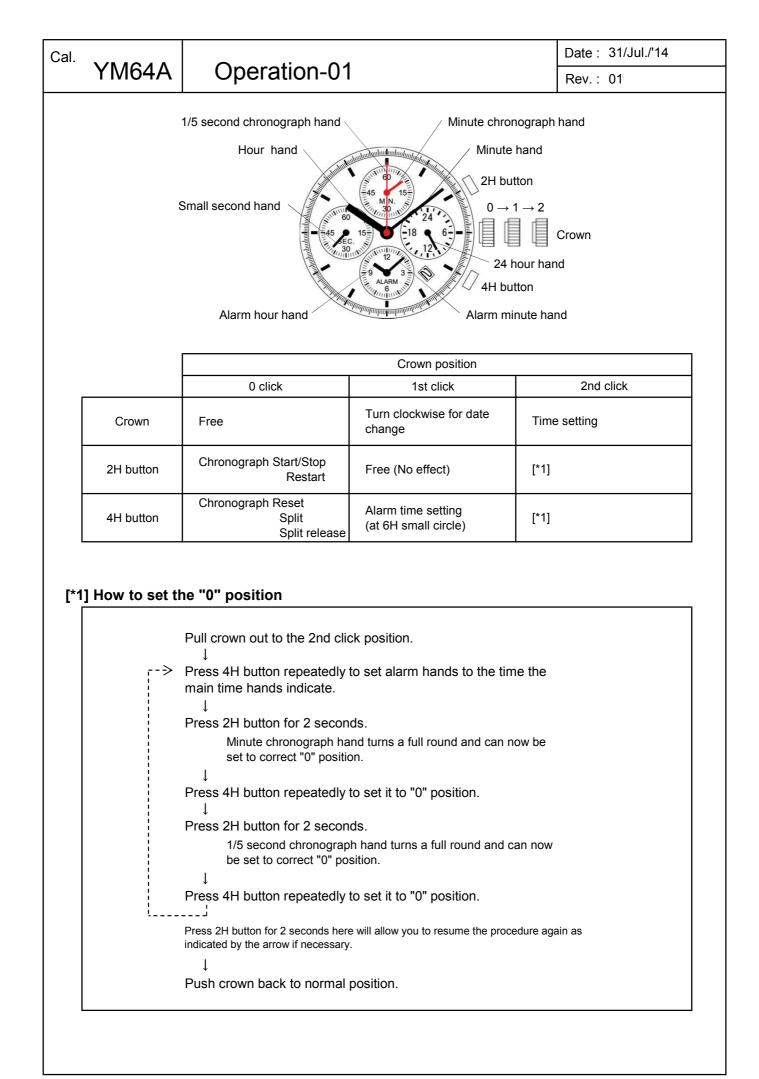
Material of case back	Heating temperature	Heating time
Stainless	250°C	5 seconds
Titanium	250°C	6 seconds

Check piezoelectric element is definitely stuck to case back after heating.

The amount of the misalignment between the center of case back and : 0.35mm and less piezoelectric element

If the sticking position of piezoelectric element is drastically misaligned or if the electrical continuity is bad, no sound may occur.

Sticking position



Cal.	
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YM64A

Operation-02

Rev.: 01

dard measurement 2H button	H button Start Stop Reset nulated elapsed time measurement H button 2H button 2H button 4H button Start Stop Restart Stop Reset Restart and stop of the chronograph can be repeated by pressing 2H button. H button 4H button 4H button 2H button 4H button Start Solp Reset Measurement H H button 4H button 4H button 2H button 4H button Start Solit Solit Solit Solit Reset Measurement and release of split time can be repeated by pressing 4H button. Inction arm can be set to ring only once at a designated time within the coming 12 hours. arm time can be set in one minute increments. e alarm time Crown 4H button [*1] Press 4H button repeatedly us set the alarm time 1D variable when the Houton is be pressing any button. The alarm hands move quicky when the 4H button is buttor the correspondence of Release and press the 4H button, the alarm hands will start moving again. the alarm designated time the alarm rings for 20 seconds, and it is automatically disengaged as it s sible to stop ringing manually when pressing any button. the alarm (when alarm time is set)	2H button 2H button Start Stop mulated elapsed time measurem 2H button 2H button	Reset
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