

Watch Movement Specification and Drawing

CHRONOGRAPH

Cal. VR3HA



3 years

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Cal.	VR3HA Specifications			Date : 6/Dec./'16			
			Rev.: 00				
Analog Quartz 13 1/2" Chronograph Movement							
1.		IMENSIONS					
	Outside diamete	r	ϕ 31.2mm × 28.0mm(3-9H)				
	Casing diameter		φ30.6mm				
	Total height		3.97mm (including battery)				
2.	TIME STANDA	RD					
	Type of quartz or	scillator	Tuning fork				
	Frequency of qua	artz oscillator	32,768 Hz				
	Accuracy		± 20 seconds per month (on wrist)				
	Operating tempe	erature range	-5° C to $+50^{\circ}$ C				
	Regulation devic	e	Nil (Pre-adjusted)				
3.	INDICATOR / F	UNCTIONS					
	3 Hands		Hour / Minute / Second				
	Small hands		24 hour(12H) / Second chronograp	h(6H) /	Minute chronograph(9H)		
	Calendar		Instant setting device for date calen	dar	- · · · /		
	Reset switch		-				
	Power depletion	warning function (E	LD)				
	(Second hand m	oves at 2-second in	tervals)				
	Setting mechanis	sm	Crown at normal position	: Free	t data abanan		
			Crown pulled out 1st click	: Instan	atting / react		
	Chronograph		1/1 second up to 10 minutes with sr	: lime s	monocurrement		
	Chronograph		in second up to 10 minutes with sp		measurement		
4.	FEATURES						
	Jewels		0 Jewels				
	Anti-magnetism	<i>.</i>	Over 1600A/m (Direct current magn	netic fiel	d)		
	Maximum unbala	ance of hands	Hour hand	: 0.6 µ ľ	N•m		
			Minute hand	: 0.9 µ ľ	N•m		
			Second hand	: 0.09 µ	≀N•m		
			24 nour nano Second abronagraph band	: 0.05 µ	(N• []]		
			Minute chronograph hand	0.05μ	N-III		
	Moment of Inerti-	2	Second band	: 0.05 µ	$(N \cdot II)$		
		d	Second chronograph hand	· 1055 (1	$\mu g m^2$		
			Second chronograph hand	. 1655 ti	μg^{-11}		
5.	BATTERY		O '' I I I I I I I I I I				
	Type / Size		Silver oxide battery $/\phi$ 9.5mm × t 2	2.0mm			
	Recommended t	battery	SR920SW (Maxell, Sony, Selzaiken	ר)			
	Nominal voltage		1.55 V				
	Battery life	· · · · · · · ·	Approx. 3 years				
	Operation stoppi	ing voltage	Approx. 1.2 μ A 1.4V (Chronograph function)				
c							
υ.	Hand setting stor	m	0351578 or 0351177				
	Battery		SR920SW				
7							
1.	Fauinment to be	used	SFIKO quartz tester OT-00				
		u36U	Greiner quartz timer-C Witschi O-t	ester 4	000		
	Duration of meas	surement	10 seconds				
	Microphone to be	e used	Electromagnetic detection type				
	All specifications are subject to change without notice.						

















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Crown	Free	Turn counterclockwise for date change	Time setting
2H button	Chronograph Start/Stop Restart	Chronograph Start/Stop Restart	Chronograph hands 0-setting (clockwise)
4H button	Chronograph Reset Split Split release	Chronograph Reset Split Split release	Chronograph hands 0-setting (counterclockwise)

Chronograph function

Second chronograph hand is capable of timing 10 minutes. (60 seconds x 10 times) Minute chronograph hand is capable of timing 10 minutes.



Rev.: 00

1. Case

Please use the metal case back to prevent from the movement mal-function by static electricity.

2.Hour Wheel

VR3HA

When set and remove the hour hand repeatedly, it may reduce the hand fixing torque because the hour wheel is made by plastic.

To ensure the enough fixing torque, it isn't recommended to re-assemble the hour hand more than five times.

3. Button position

Please keep the clearance between the movement and the tip of button to prevent the interference in assembling and enable to be cased smoothly.



To keep the clearance, it is recommended to use button spring.

