

### Watch Movement Specification and Drawing

# **MULTI - FUNCTION**

# Cal. VX7JE

**Movement Size** 

12 3/4""

Casing Diameter

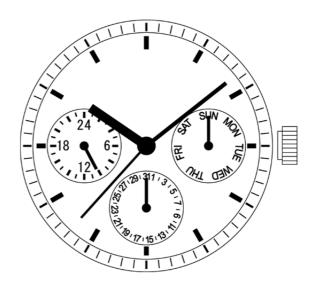
Ø 28.6mm

Height

3.99mm

**Battery Life** 

3 years



Date: 11/Jan./'19

### Cal. VX7JE

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Cal.

VX7JE

### **Specifications**

Date: 30/Apr./'14

Rev.: 01

### Analog Quartz 12 3/4" Movement / 3 hands (H/M/S) and 3 eyes with Day / Date / 24 Hour indicators

#### 1. MOVEMENT DIMENSIONS

Outside diameter  $\phi$  29.50mm × 26.00mm(3-9H) × 29.36mm(12-6H) Casing diameter  $\phi$  28.60mm × 25.60mm(3-9H) × 28.60mm(12-6H)

Total height 3.99mm (including battery)

#### 2. TIME STANDARD

Type of quartz oscillator Tuning fork Frequency of quartz oscillator 32,768 Hz

Accuracy ±20 seconds per month (on wrist)

Operating temperature range  $-5^{\circ}$ C to  $+50^{\circ}$ C Regulation device Nil (Pre-adjusted)

#### 3. INDICATOR / FUNCTIONS

3 Hands Hour / Minute / Second

3 Small hands Day(3H) / Date(6H) / 24 Hour(9H)

Reset switch

Setting mechanism Crown at normal position : Free

Crown pulled out 1st click : Instant date change

Crown pulled out 2nd click : Time setting (Day change) / Reset

#### 4. FEATURES

Jewels 0 Jewels

Anti-magnetism Over 1600A/m (Direct current magnetic field) Maximum unbalance of hands Second hand :  $0.1\,\mu\,\text{N}\cdot\text{m}$  Minute hand :  $0.9\,\mu\,\text{N}\cdot\text{m}$  Hour hand :  $0.9\,\mu\,\text{N}\cdot\text{m}$ 

#### 5. BATTERY

Type / Size Silver oxide battery /  $\phi$  9.5mm × t 2.7mm Recommended battery SR927SW (Maxell, Sony, Seizaiken)

Nominal voltage 1.55 V

Battery life Approx. 3 years Driving current consumption Approx.  $2.1 \mu A$ 

Operation stopping voltage 1.2 V

#### 6. SEPARATED PARTS (Parts code)

Hand setting stem 0351578 or 0351177

Battery SR927SW

#### 7. TEST OF ACCURACY

Equipment to be used SEIKO quartz tester QT-99,

Greiner quartz timer-C , Witschi Q-tester 4000

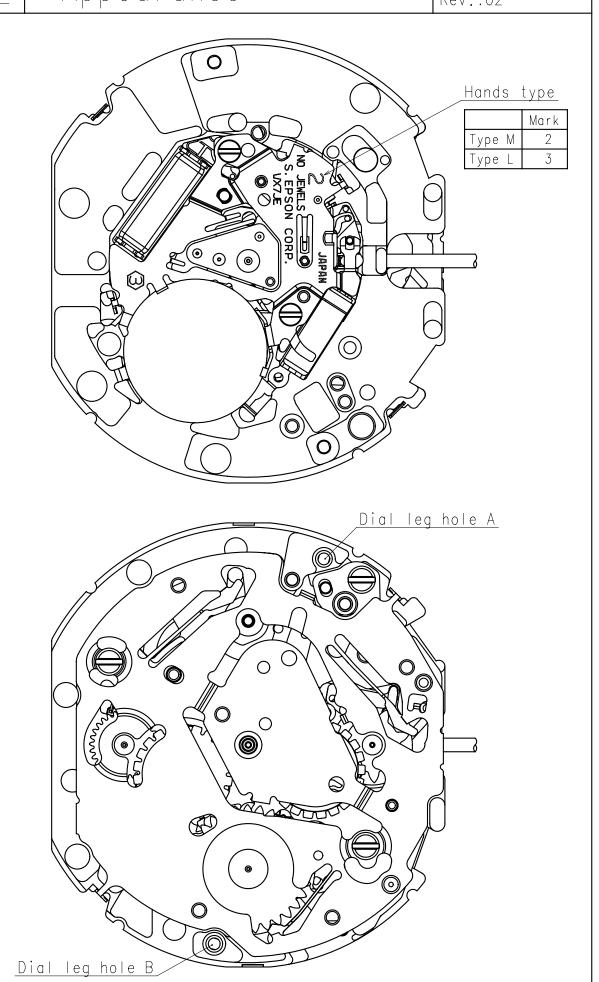
Duration of measurement 10 seconds

All specifications are subject to change without notice.

Appearance

Date:15/Feb./'16

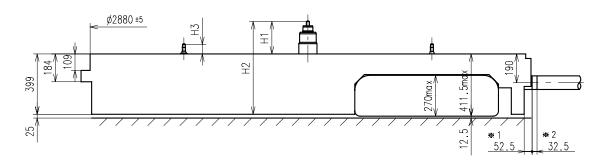
Rev.:02



Casing

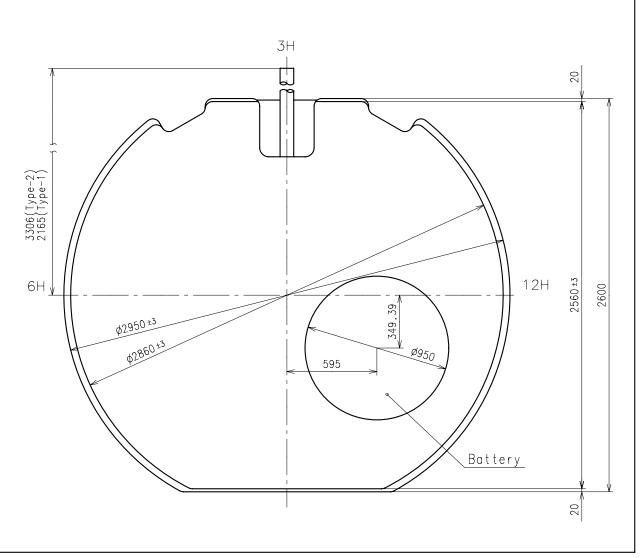
Date:15/Feb./'16

Rev.:03



Center post		Type M (2) VX7JE**	Type L (3) VX7JE**
Maximum height from dial support	H1	214	256
Total height including movement	H2	613	655
Maximum height from dial support	Н3	63	111

\* 1:First pullout stroke
\* 2:Second pullout stroke



Unit : 1=1/100mm

P. 3

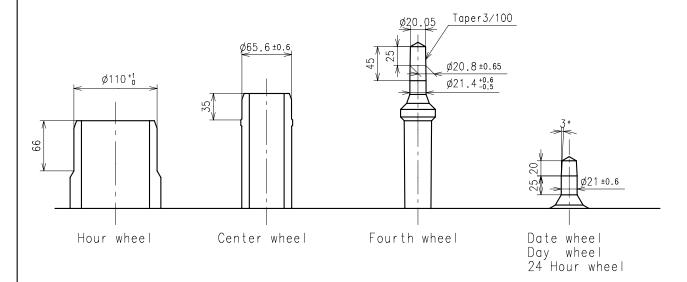
# Hand fitting-01

Date: 11/Jan./'19

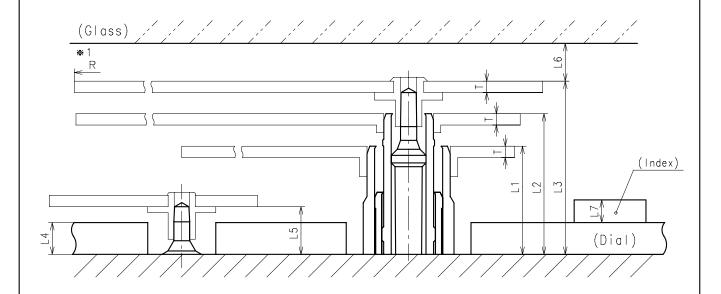
Rev.:04

#### ★ Unbalance

- · Hour hand  $\leq$  0.9 $\mu$  N·m (90 $\mu$  g·m) · Minute hand  $\leq$  0.9 $\mu$  N·m (90 $\mu$  g·m) · Second hand  $\leq$  0.1 $\mu$  N·m (10 $\mu$  g·m)



	Parts No.							
		Center wheel				24 Hour wheel		
Type M (2) VX7JE**	0271658	0221602	0241559	0970503	1002546	1002559		



	L 1	L2	L3	L4	L5	L6	L7	Т	*1 R
Type M (2) VX7JE**	143	186	229	40	63	MIN: 50	MAX: 50	15	MAX: 1250

\*1:It is the size taken into consideration for hands attachment.

Please observe some standard value specified in unbalance when using long hands.

Unit : 1=1/100mm

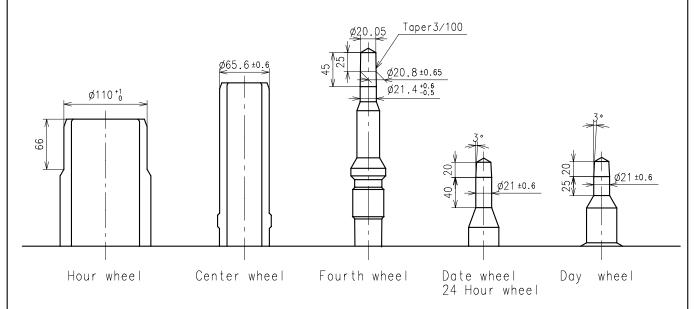
# Hand fitting-02

Date: 11/Jan./'19

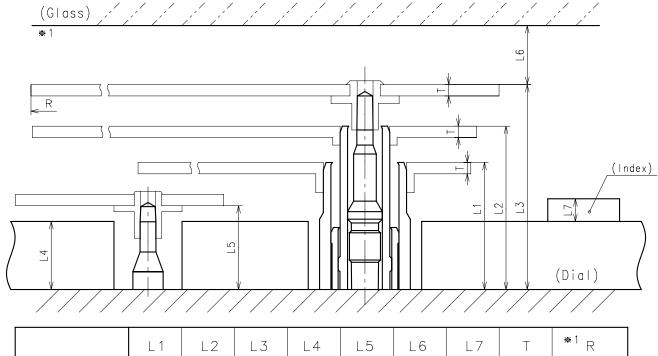
Rev.:01

#### \* Unbalance

- · Hour hand  $\leq$  0.9 $\mu$  N·m (90 $\mu$  g·m) · Minute hand  $\leq$  0.9 $\mu$  N·m (90 $\mu$  g·m) · Second hand  $\leq$  0.1 $\mu$  N·m (10 $\mu$  g·m)



	Parts No.							
		Center wheel			,	24 Hour wheel		
Type L (3) VX7JE**	0271684	0221662	0241592	0970504	1002547	1002565		



	L1	L2	L3	L4	L5	L6	L7	Т	*1 R
Type L (3) VX7JE**	168	216	271	90	111	MIN: 50	MAX: 50	15	MAX: 1500

★ 1: It is the size taken into consideration for hands attachment. Please observe some standard value specified in unbalance when using long hands.

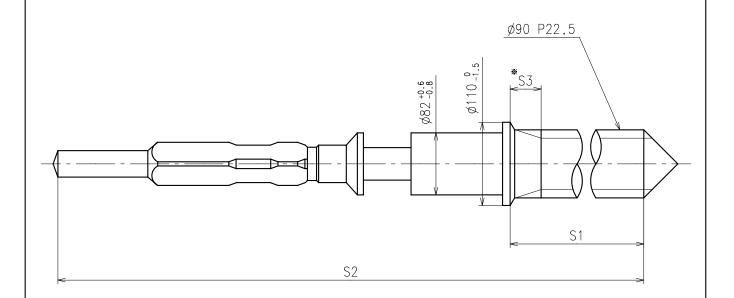
Unit: 1=1/100mm

Ρ. 4-02

Hand setting stem

Date:24/Jul./'15

Rev.:02



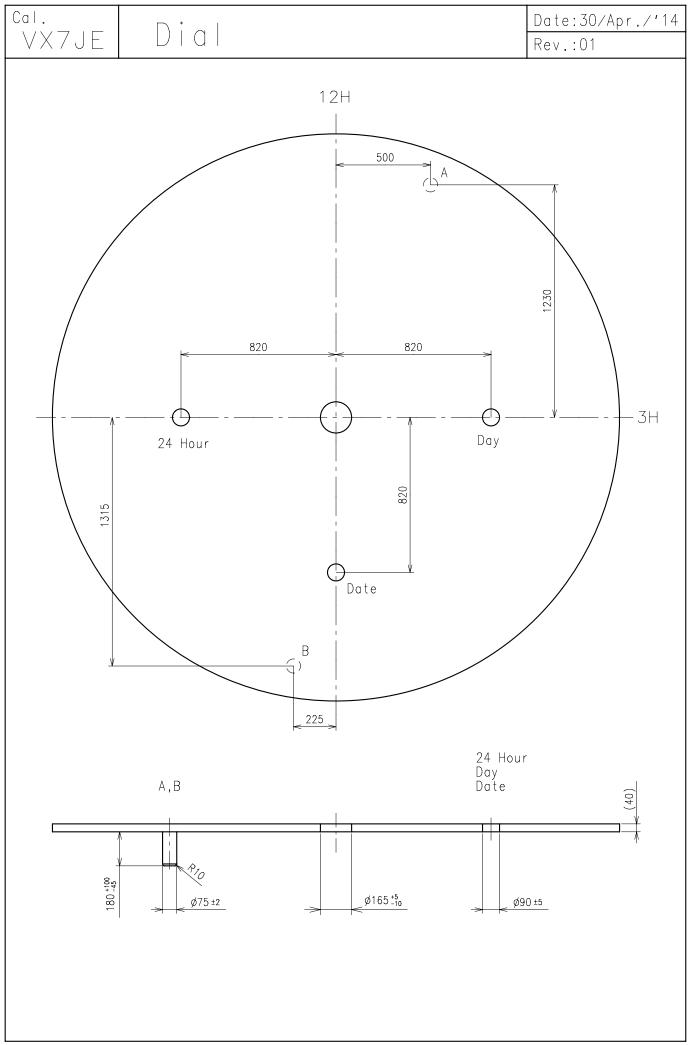
### ≫ Not threaded

	Part No.	S1	S2	<b>*</b> S3
Type-1	0351177	1366	1964	60
Type-2 (Standard)	0351578	2507	3105	650

Material : Steel

Hardness: Vickers 600±50

Unit: 1=1/100mm P. 5



Unit: 1=1/100mm P. 6

Cal. Date:30/Apr./'14 Casing ring VX7JE Rev.:01 12H 100 3H 650 1203 ±5 4-R200 2600 ±3 2606 ±3 100 A-A' section Ø2956 ±3 C view Ø2868 ±3 Ø3028 ±5 340 ±3 <u>E view</u> D view B-B' section 240 ±3 200 ±5 85 ±3 300 ±5 230 ±5

Unit: 1=1/100mm

P. 7

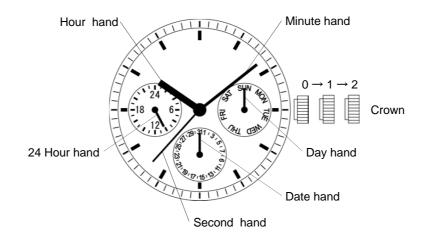
Cal.

VX7JE

Operation

Date: 30/Apr./'14

Rev.: 03



	Crown position					
	0 click 1st click 2nd click					
Crown	Free	Turn counterclockwise for date change	Time setting (Day change)			

<sup>\*</sup> Do not set the day and date between 9:00 PM and 4:00 AM. Otherwise, the day and date may not change properly.