

Watch Movement Specification and Drawing

CALENDAR

Cal. VX83E

Movement Size

6 3/4 × 8""

Casing Diameter

15.3 × 17.4 mm

Height

3.11mm

Battery Life

3 years



Date: 4/Aug./'23

Cal. VX83E

Items	Rev.	Page
Specifications	04	1
Appearance	02	2
Casing	03	3
Hand fitting	03	4
Hand setting stem	02	5
Dial-01	03	6-01
Dial-02	01	6-02
Dial-03	03	6-03
Dial-05	01	6-05
Dial-06	01	6-06
Casing ring	01	7

Cal.

VX83E

Specifications

Date: 18/Sep./'20

Rev.: 04

Analog Quartz 6 3/4 × 8" Movement / Three Hands (H/M/S) with Day/Date

1. MOVEMENT DIMENSIONS

Outside diameter $15.70 \text{mm}(3-9\text{H}) \times 17.80 \text{mm}(12-6\text{H})$ Casing diameter $15.30 \text{mm}(3-9\text{H}) \times 17.40 \text{mm}(12-6\text{H})$

Total height 3.11mm (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° C to $+50^{\circ}$ C Regulation device Nil (Pre-adjusted)

3. INDICATOR / FUNCTIONS

3 Hands Hour / Minute / Second

Day/Date Instant setting device for day/date calendar

Reset switch

Setting mechanism Crown at normal position : Free

Crown pulled out 1st click : Instant day/date change Crown pulled out 2nd click : Time setting / Reset

4. FEATURES

Jewels 0 Jewels

Anti-magnetism Over 1600A/m (Direct current magnetic field) Maximum unbalance of hands Hour hand $: 0.5\,\mu\,\text{N}\cdot\text{m}$ Minute hand $: 0.6\,\mu\,\text{N}\cdot\text{m}$

Second hand : $0.07 \,\mu\,\text{N}\cdot\text{m}$

5. BATTERY

Type / Size Silver oxide battery / ϕ 6.8mm × t 2.1mm Recommended battery SR621SW (Maxell, Murata, Seizaiken)

Nominal voltage 1.55 V

Battery life Approx. 3 years Driving current consumption Approx. 0.8μ A

Operation stopping voltage 0.9 V

6. SEPARATED PARTS (Parts code)

Hand setting stem 0351177 or 0351578

Battery SR621SW

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

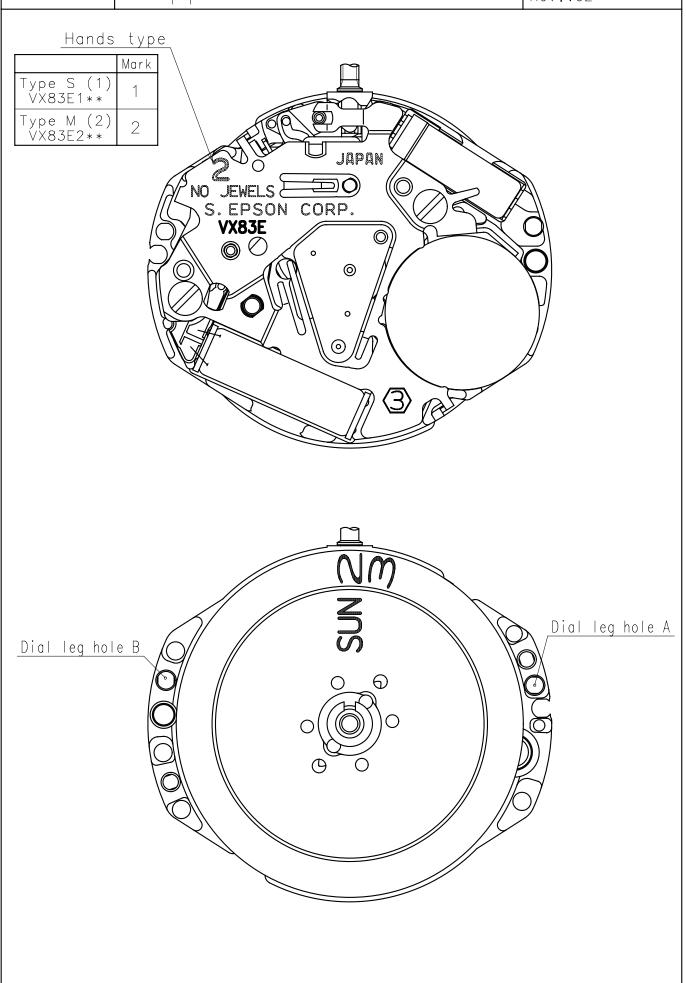
All specifications are subject to change without notice.

Cal. VX83E

Appearance

Date:28/Feb./'14

Rev.:02



cal. VX83E

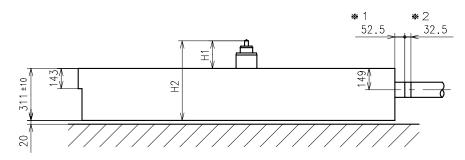
Casing

Date:28/Feb./'14

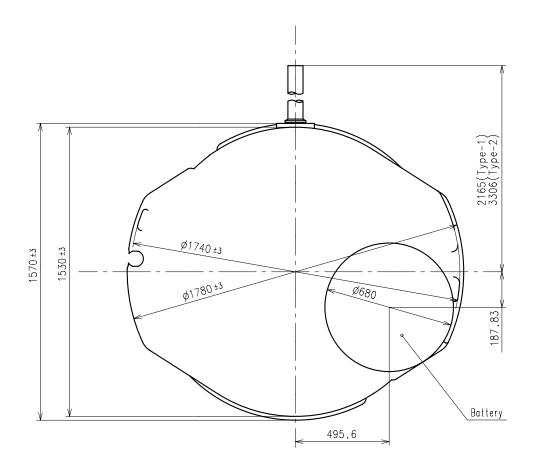
Rev.:03

<u>★1:First pullout stroke</u>

★ 2:Second pullout stroke



Center post		Type S (1) VX83E1**	Type M (2) VX83E2**
Maximum height from dial support	H1	146	182
Total height including movement	Н2	457	493



Unit: 1=1/100mm P. 3

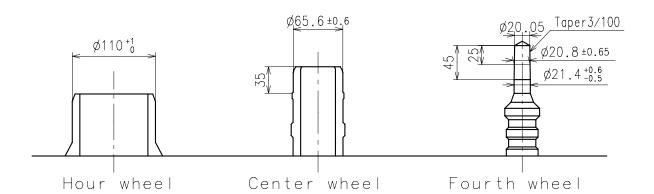
Cal. VX83E

Hand fitting

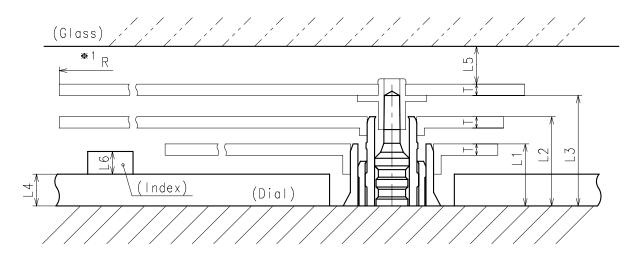
Date:11/Jan./'19

Rev.:03

- * Hour hand unbalance $\leq 0.5\mu \text{ N} \cdot \text{m} (50\mu \text{ g} \cdot \text{m})$
- * Minute hand unbalance $\leq 0.6\mu \text{ N} \cdot \text{m} (60\mu \text{ g} \cdot \text{m})$
- * Second hand unbalance $\leq 0.07\mu \text{ N} \cdot \text{m}(7\mu \text{ g} \cdot \text{m})$



	Parts No.		
	Hour wheel	Center wheel	Fourth wheel
Type S (1) VX83E1**	0271904	0221904	0241904
Type M (2) VX83E2**	0271934	0221934	0241934



	L1	L2	L3	L4	L5	L6	T	*1 R
Type S (1) VX83E1**	82	118	146	40	MIN: 50	MAX: 35	15	MAX: 1250
Type M (2) VX83E2**	105	154	182	40	MIN: 50	MAX: 60	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

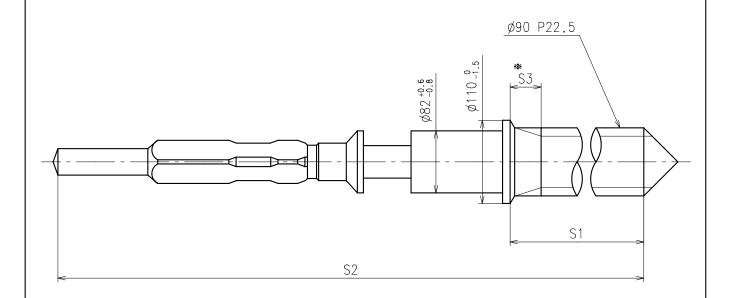
P. 4

Cal. VX83E

Hand setting stem

Date:28/Feb./'14

Rev.:02



≫ Not threaded

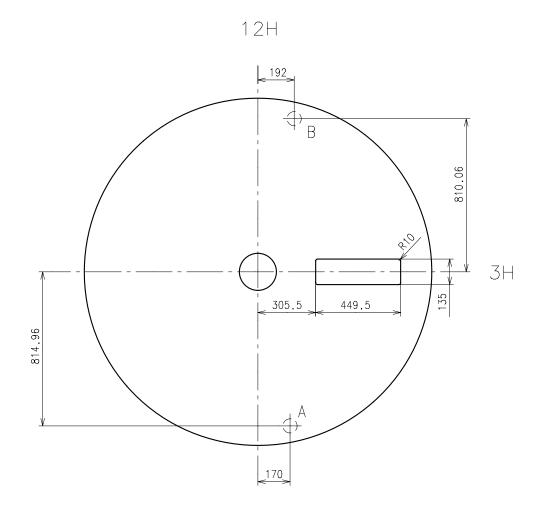
	Part No.	S1	S2	* S3
Type-1 (Standard)	0351177	1366	1964	60
Type-2	0351578	2507	3105	650

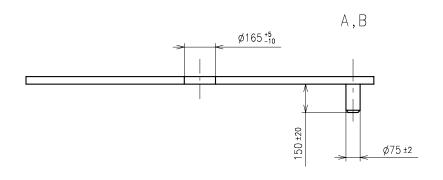
Material : Steel

Hardness: Vickers 600±50

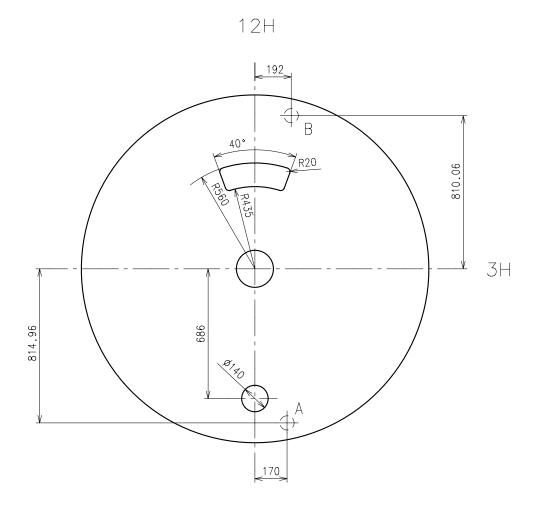
Unit: 1=1/100mm P. 5

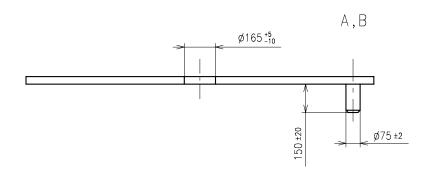
Cal. VX83E Dia 1-01 Date:28/Feb./'14 Rev.:03



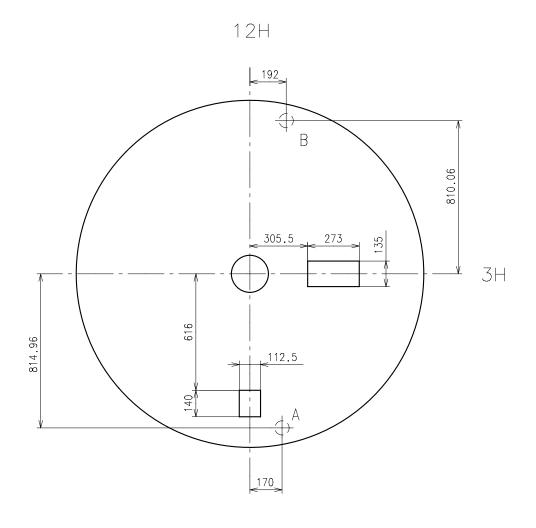


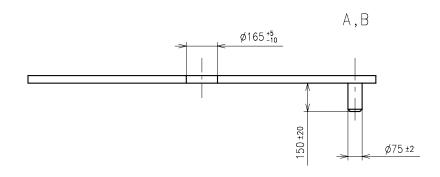
Cal. VX83E Dial-02 Date:28/Feb./'14 Rev.:01





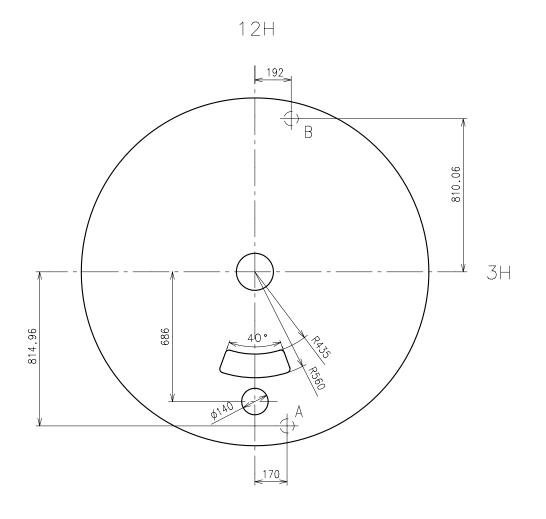
Cal. VX83E Dial-03 Date:28/Feb./'14 Rev.:03

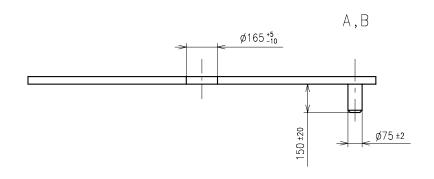




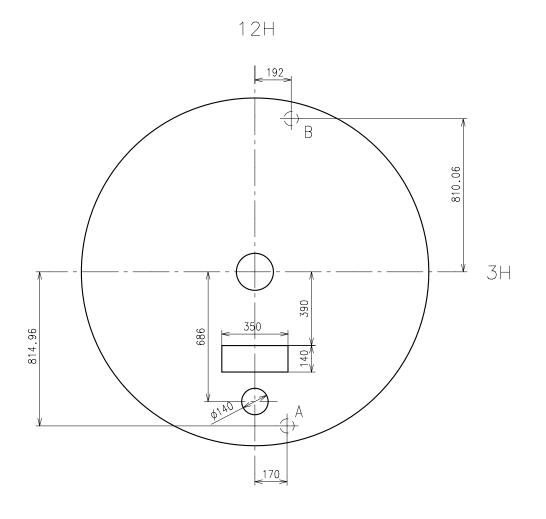
Cal.
VX83E Dial-05

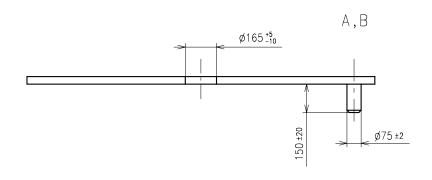
Date:28/Feb./'14
Rev.:01





Cal. VX83E Dial-06 Date:28/Feb./'14 Rev.:01



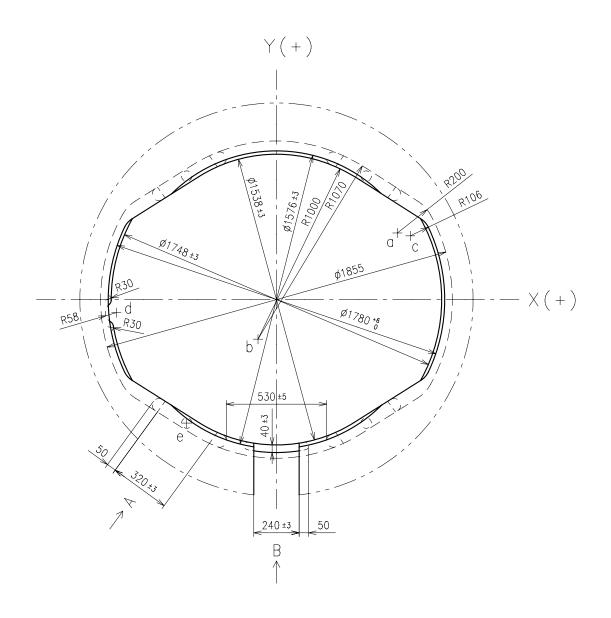


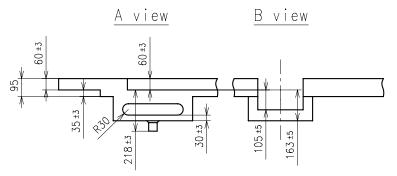
cal. VX83E

Casing ring

Date:28/Feb./'14

Rev.:01





	X	Y
а	+639.35	+352.33
b	- 97.66	-209.34
С	+707.84	+337.08
d	-847.00	- 69.00
е	-474.61	-653.25

Unit : 1=1/100mm

P. 7