

Watch Movement Specification and Drawing

MINI & SLIM

Cal. VX51E

Movement Size

6 3/4 × 8'''

Casing Diameter

15.3 × 17.8 mm

Height

2.30mm

Battery Life

3 years

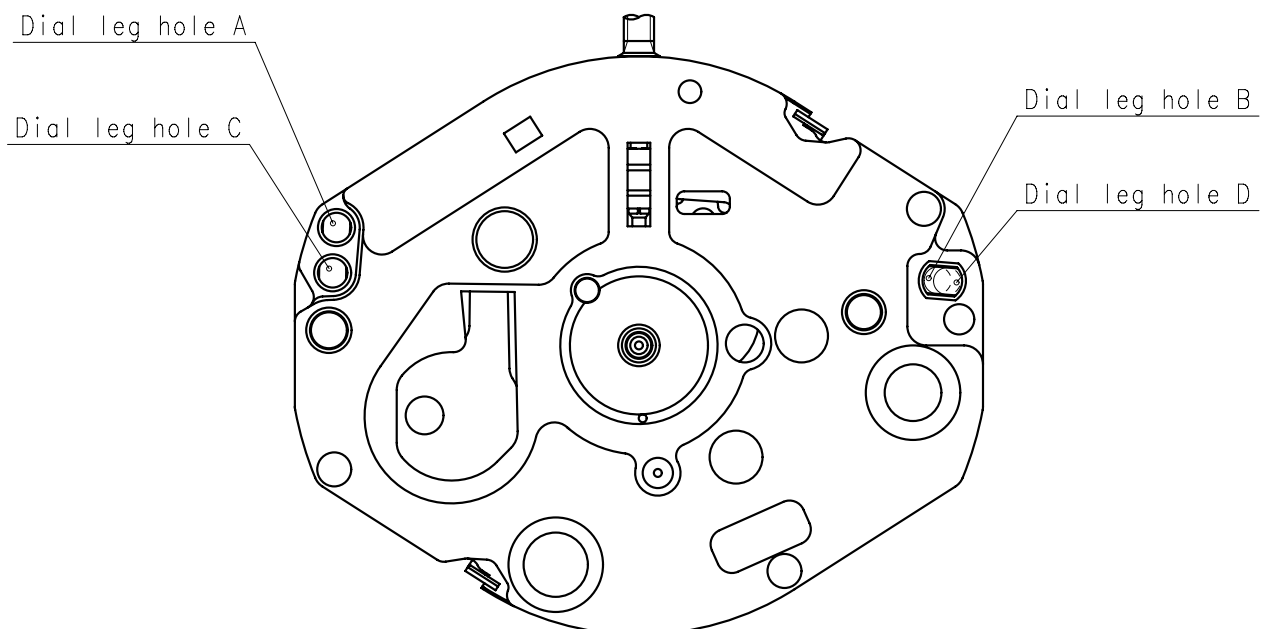
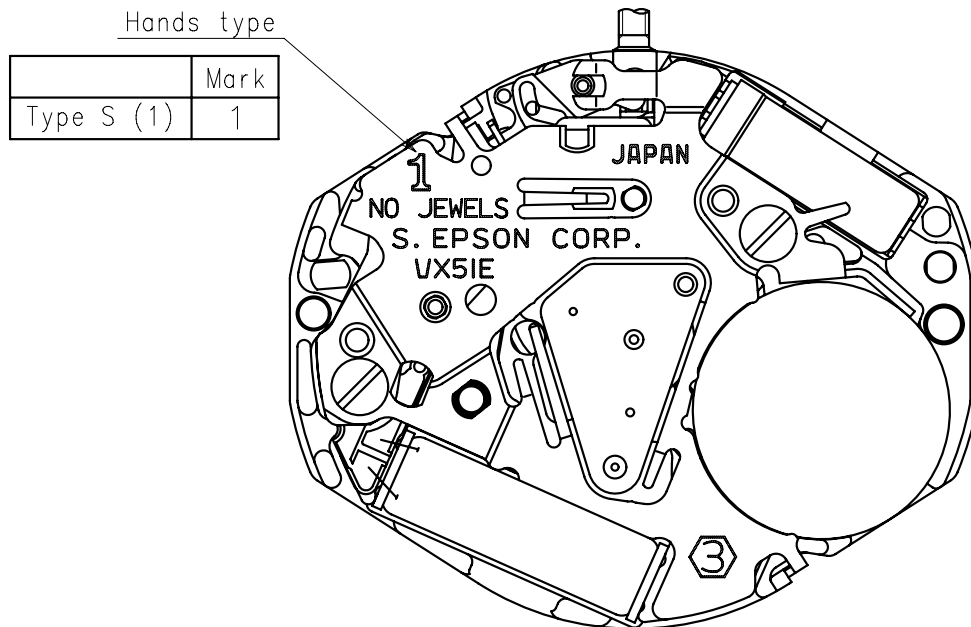


Date: 18/Sep./'20

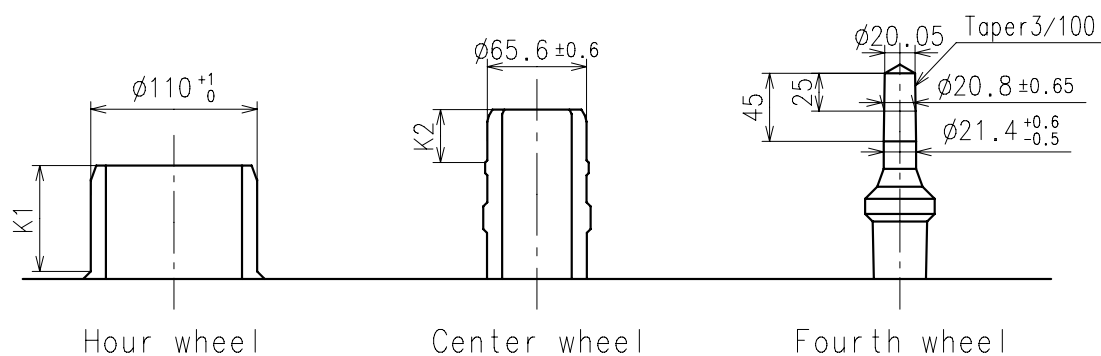
Cal. VX51E

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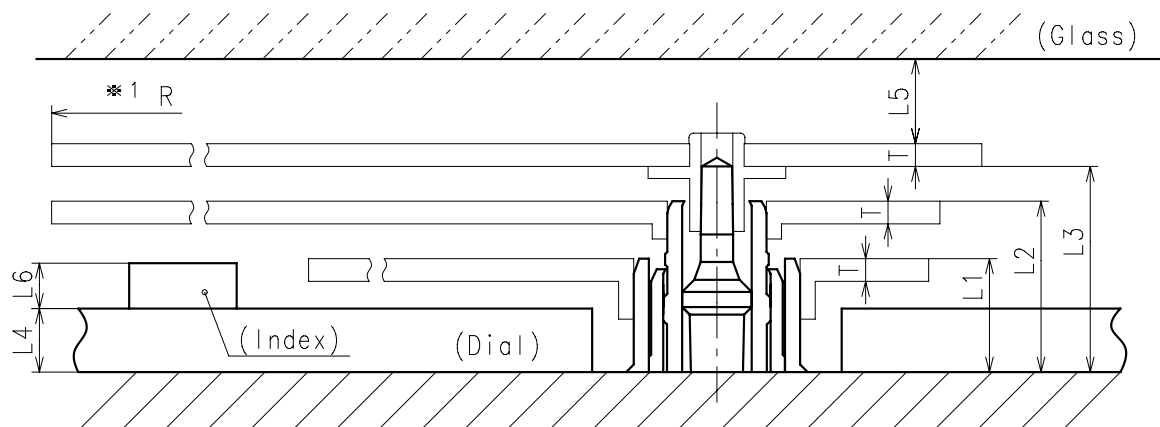
Cal.	VX51E	Specifications	Date : 18/Sep./'20
			Rev. : 04
Analog Quartz 6 3/4 × 8''' Slim Movement / Three Hands(H/M/S)			
1. MOVEMENT DIMENSIONS			
Outside diameter	15.30mm(3-9H) × 18.20mm(12-6H)		
Casing diameter	15.30mm(3-9H) × 17.80mm(12-6H)		
Total height	2.30mm		
2. TIME STANDARD			
Type of quartz oscillator	Tuning fork		
Frequency of quartz oscillator	32,768 Hz		
Accuracy	±20 seconds per month (on wrist)		
Operating temperature range	−5°C to +50°C		
Regulation device	Nil (Pre-adjusted)		
3. INDICATOR / FUNCTIONS			
3 Hands	Hour / Minute / Second		
Reset switch			
Setting mechanism	Crown at normal position	: Free	
	Crown pulled out 1st 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 μ N•m	
	Minute hand	: 0.6 μ N•m	
	Second hand	: 0.07 μ N•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. 0.80 μ A		
Operation stopping voltage	0.8 V		
6. SEPARATED PARTS (Parts code)			
Hour wheel	0271908		
Dial washer	0491735		
Hand setting stem	0351178 or 0351881		
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		
Microphone to be used	Electromagnetic detection type		
All specifications are subject to change without notice.			



- ※ Hour hand unbalance $\leq 0.50\mu \text{ N} \cdot \text{m} (50\mu \text{ g} \cdot \text{m})$
 ※ Minute hand unbalance $\leq 0.60\mu \text{ N} \cdot \text{m} (60\mu \text{ g} \cdot \text{m})$
 ※ Second hand unbalance $\leq 0.07\mu \text{ N} \cdot \text{m} (7\mu \text{ g} \cdot \text{m})$

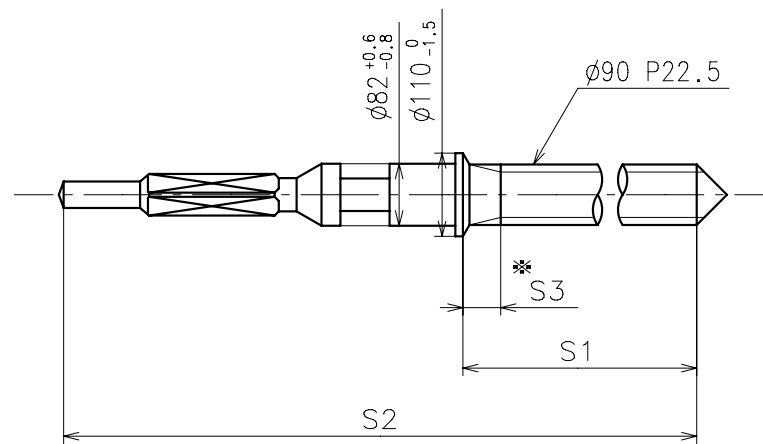


	Parts No.			Dimension	
	Hour wheel	Center wheel	Fourth wheel	K1	K2
Type S (1) VX51E1S	0271908	0221908	0241908	70	35



	L1	L2	L3	L4	L5	L6	T	*1 R
Type S (1) VX51E1S	75	113	136	40	MIN: 50	MAX: 30	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.

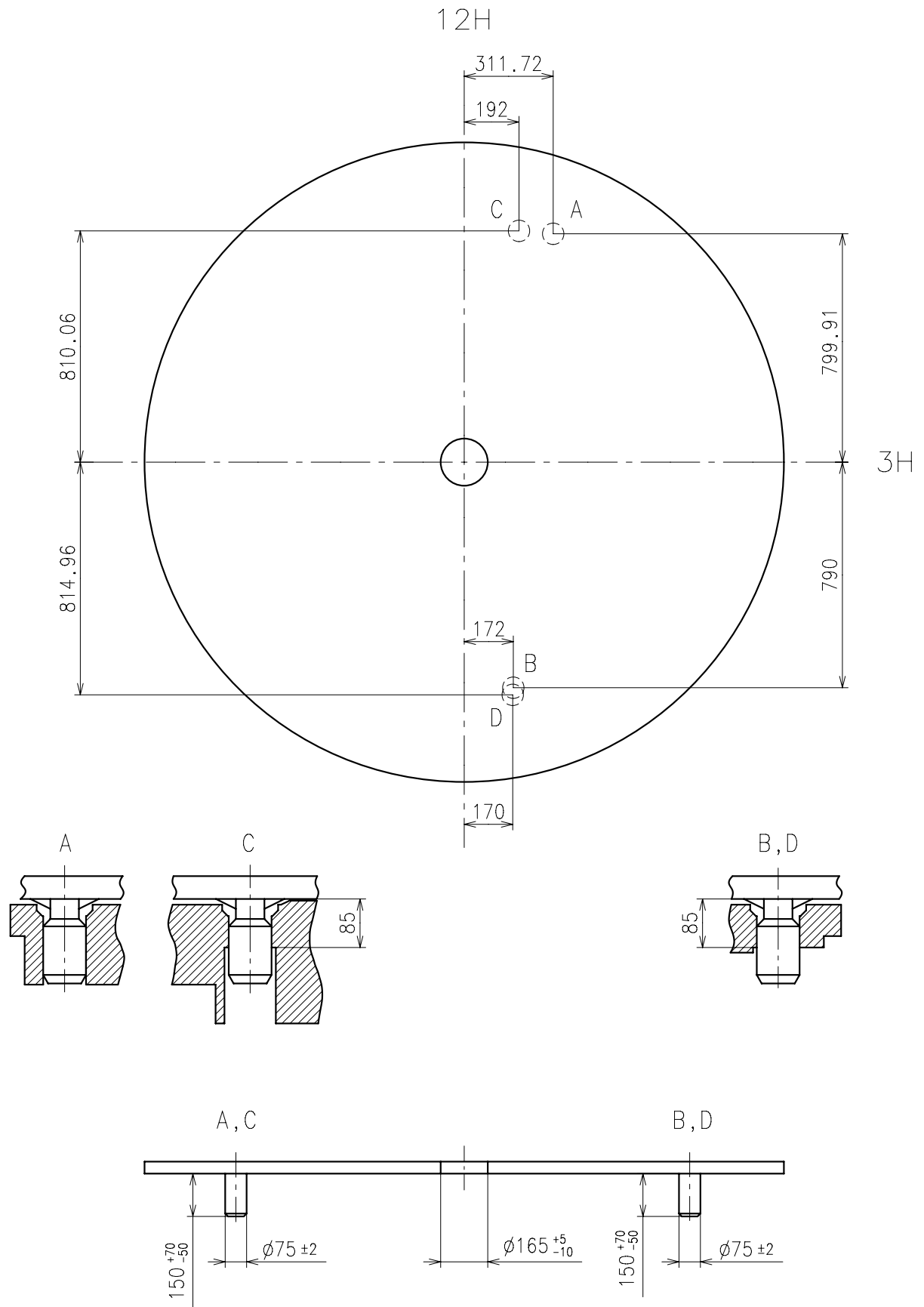


※ Not threaded

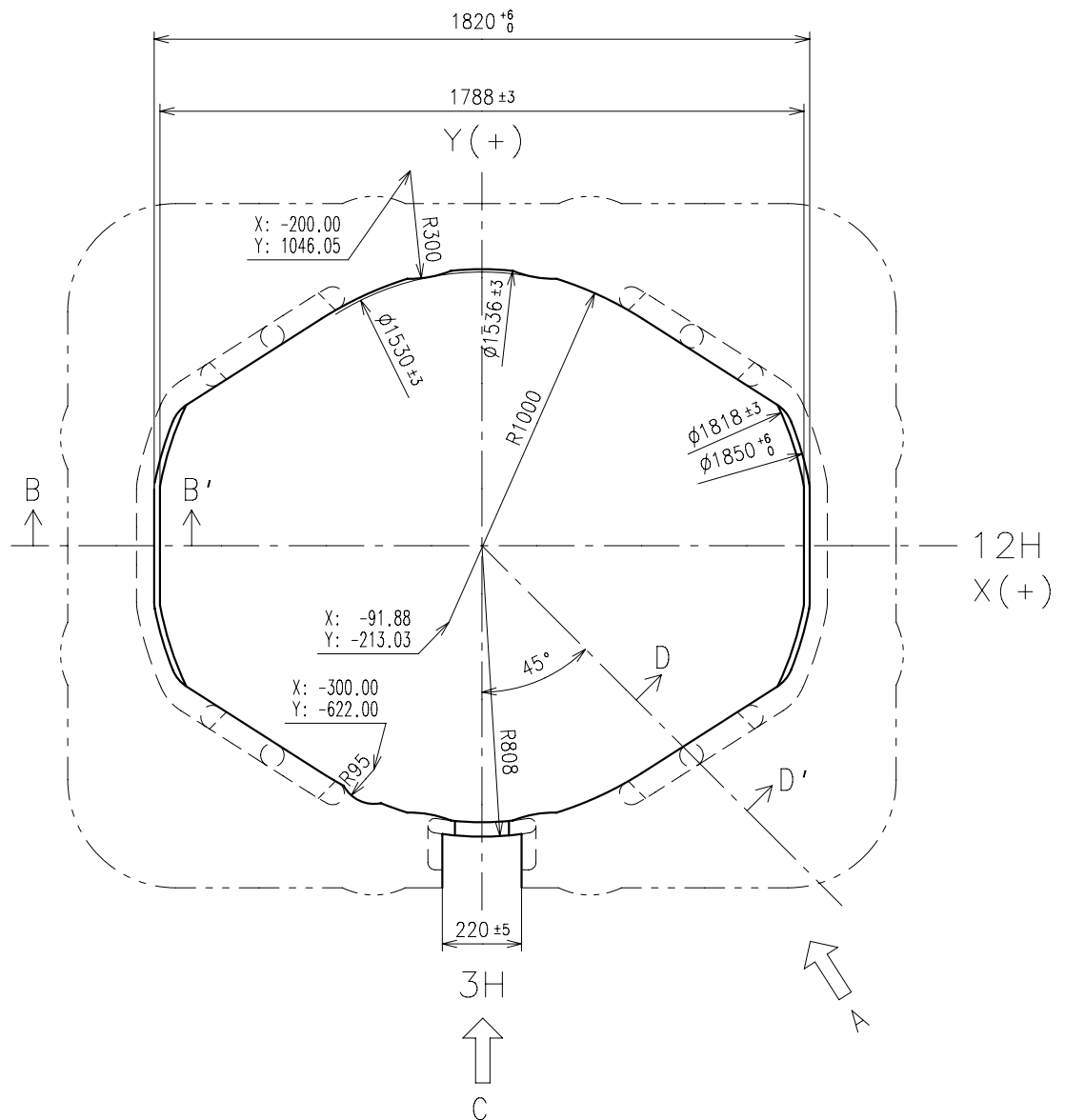
	Part No.	S1	S2	S3
Type-1 (Standard)	0351178	1463	1991	50
Type-2	0351881	2263	2791	840

Material : Steel

Hardness : Vickers 600±50



* Use dial leg A-B or C-D



B-B' section

C view

D-D' section

A view

