

Watch Movement Specification and Drawing

CALENDAR

Cal. VX12E

Movement Size

8 3/4'''

Casing Diameter

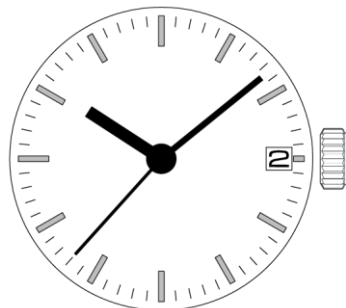
Ø 19.4mm

Height

2.60mm

Battery Life

3 years

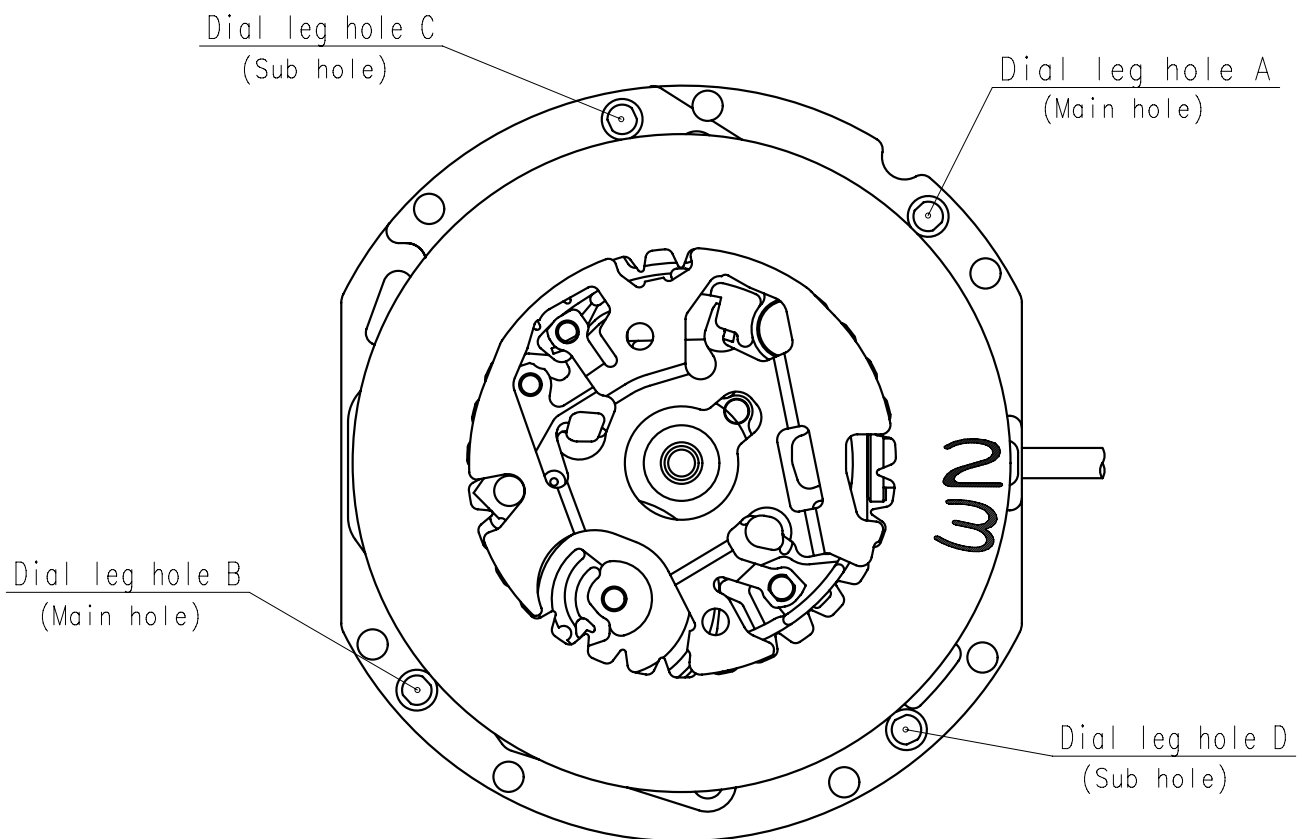
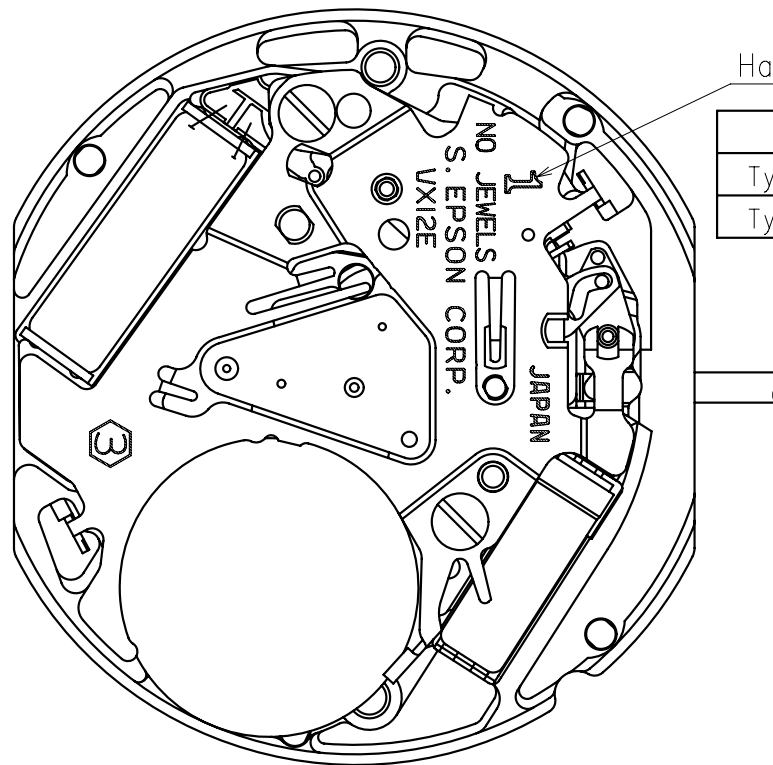


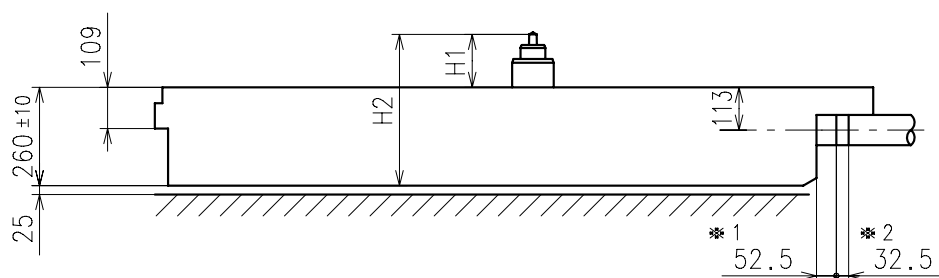
Date: 18/Sep./'20

Cal. VX12E

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

Cal.	VX12E	Specifications	Date : 18/Sep./'20
			Rev. : 04
Analog Quartz 8 3/4" Slim Movement / Three hands(H/M/S) with Calendar			
1. MOVEMENT DIMENSIONS			
Outside diameter	φ 20.00mm × 18.00mm(3-9H)		
Casing diameter	φ 19.40mm × 18.00mm(3-9H)		
Total height	2.60mm (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°C		
Regulation device	Nil (Pre-adjusted)		
3. INDICATOR / FUNCTIONS			
3 Hands	Hour / Minute / Second		
Calendar	Instant setting device for date calendar		
Reset switch			
Setting mechanism	Crown at normal position : Free		
	Crown pulled out 1st click : Instant 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 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 7.9mm × t 1.6mm		
Recommended battery	SR716SW (Maxell, Murata)		
Nominal voltage	1.55 V		
Battery life	Approx. 3 years		
Driving current consumption	Approx. 0.80 μ A		
Operation stopping voltage	0.9 V		
6. SEPARATED PARTS (Parts code)			
Hand setting stem	0351177 or 0351578		
Battery	SR716SW		
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.			

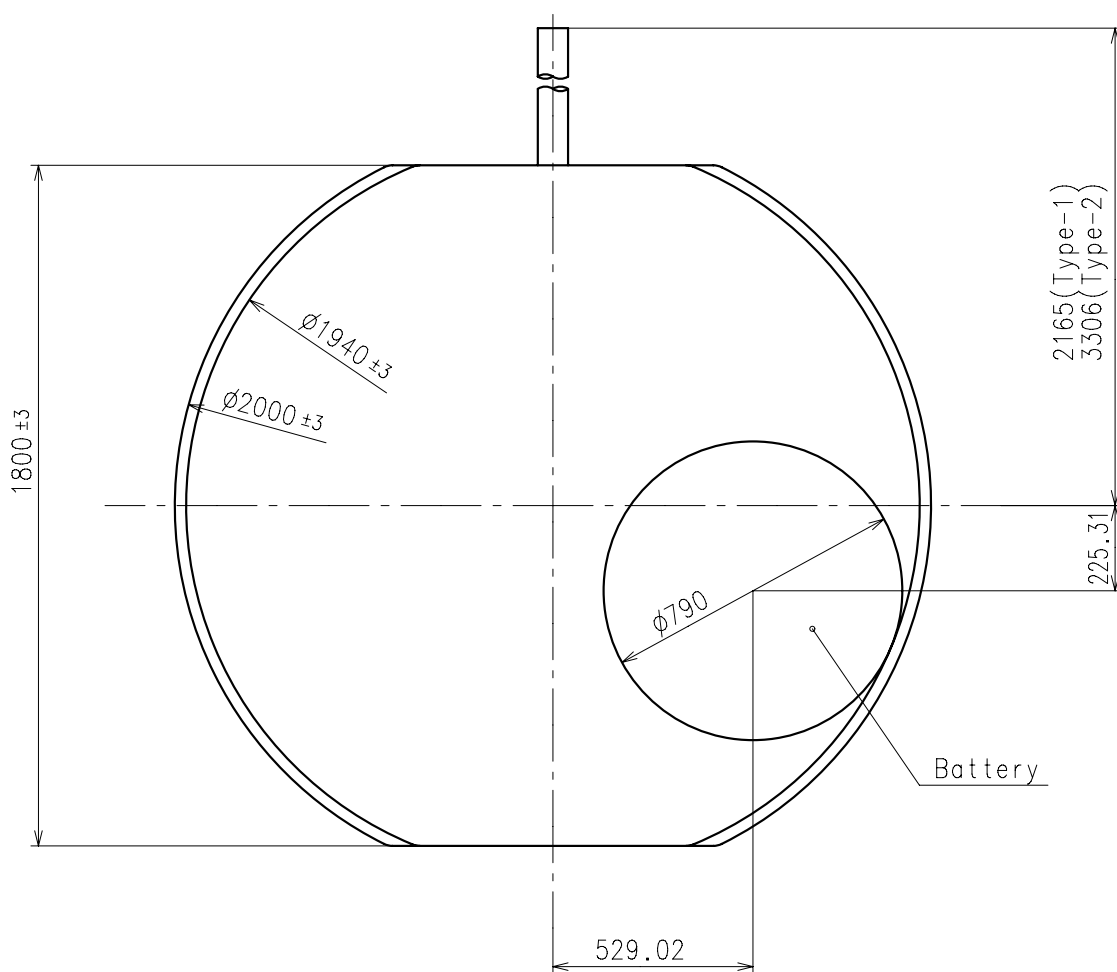




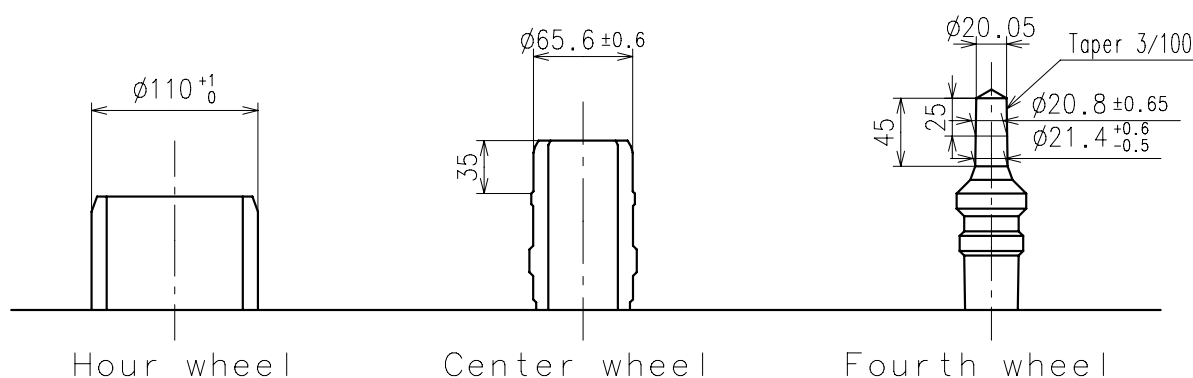
Center post		Type S (1) VX12E1*	Type M (2) VX12E2*
Maximum height from dial support	H1	140	182
Total height including movement	H2	400	442

*1:First pullout stroke

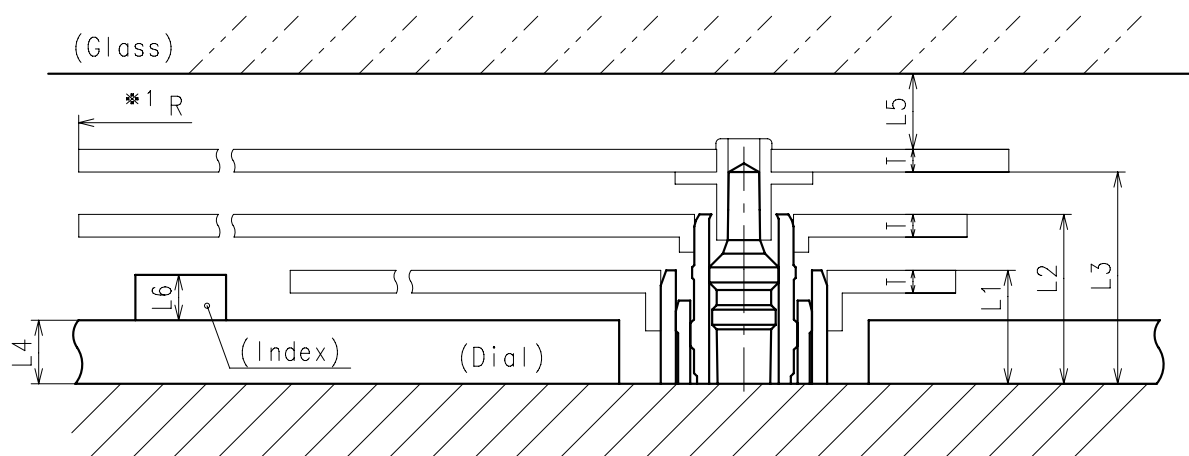
*2:Second pullout stroke



- * 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 $\leq 0.07\mu\text{ N}\cdot\text{m}$ ($7\mu\text{ g}\cdot\text{m}$)

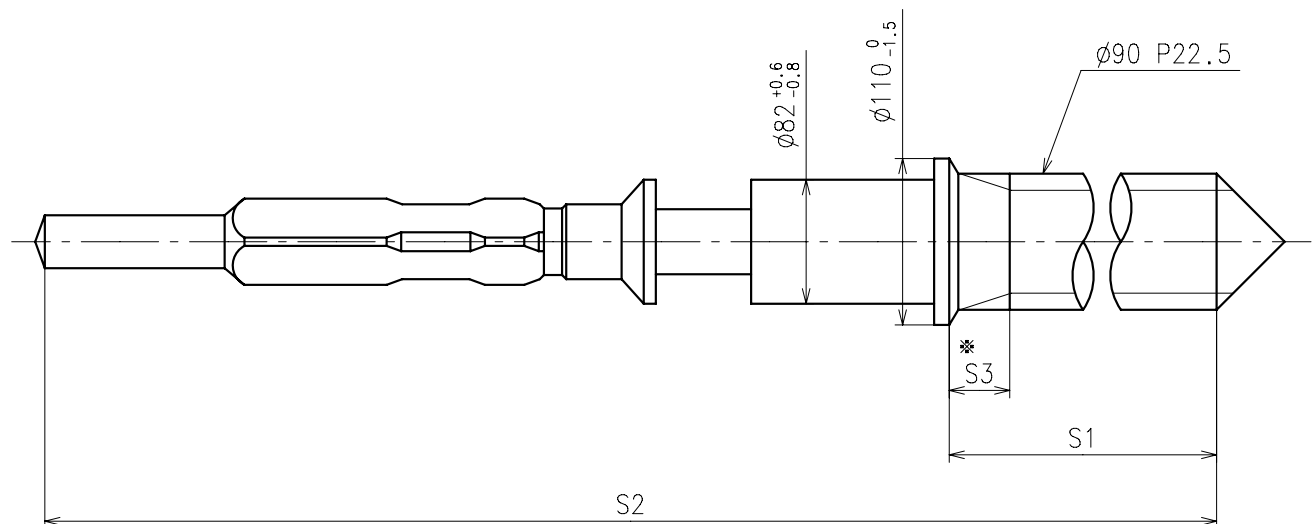


	Parts No.		
	Hour wheel	Center wheel	Fourth wheel
Type S (1) VX12E1*	0271929	0221929	0241929
Type M (2) VX12E2*	0271942	0221904	0241904



	L1	L2	L3	L4	L5	L6	T	*1 R
Type S (1) VX12E1*	75	112	140	40	MIN: 50	MAX: 30	15	MAX: 1250
Type M (2) VX12E2*	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.

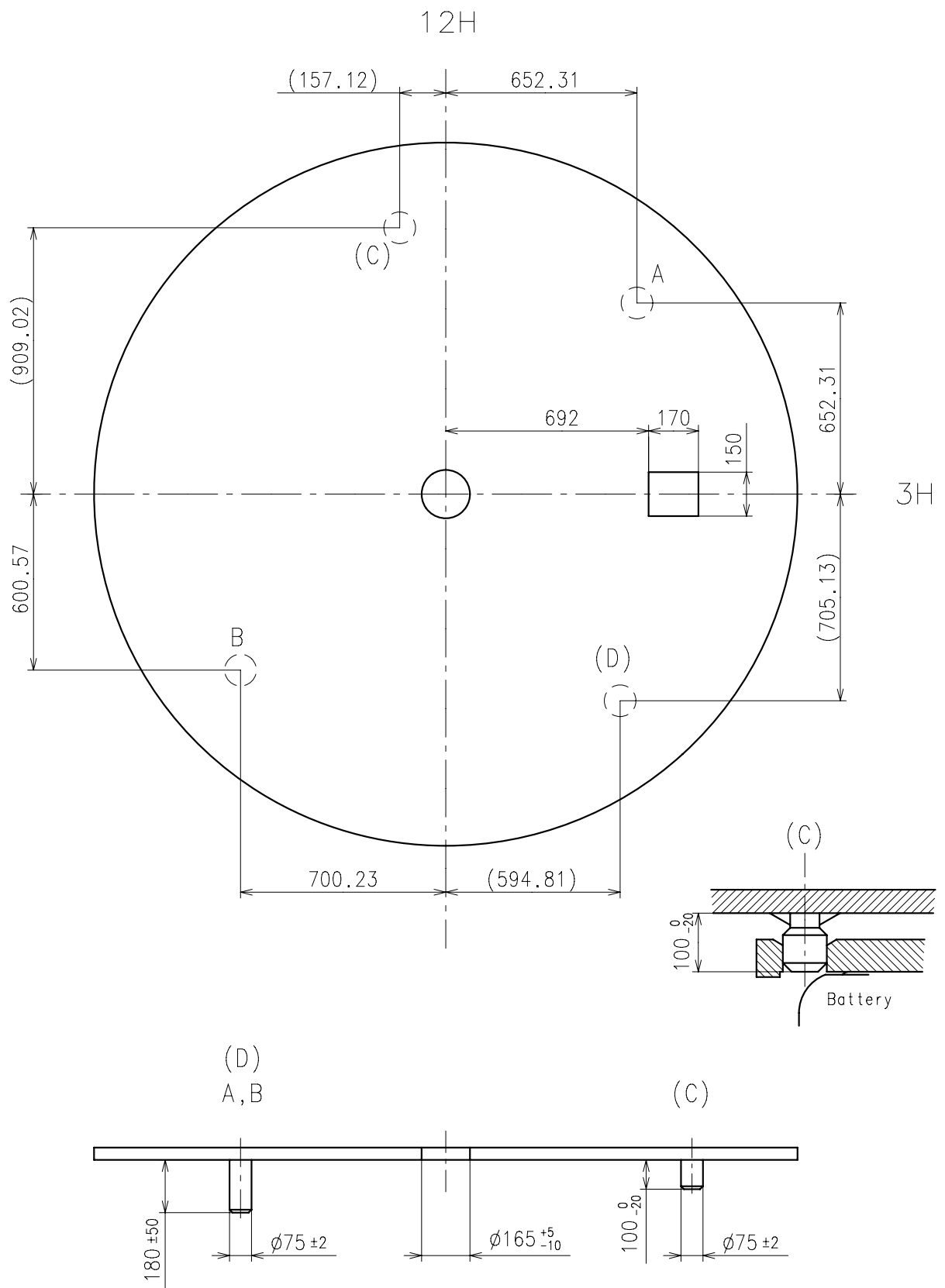


※ Not threaded

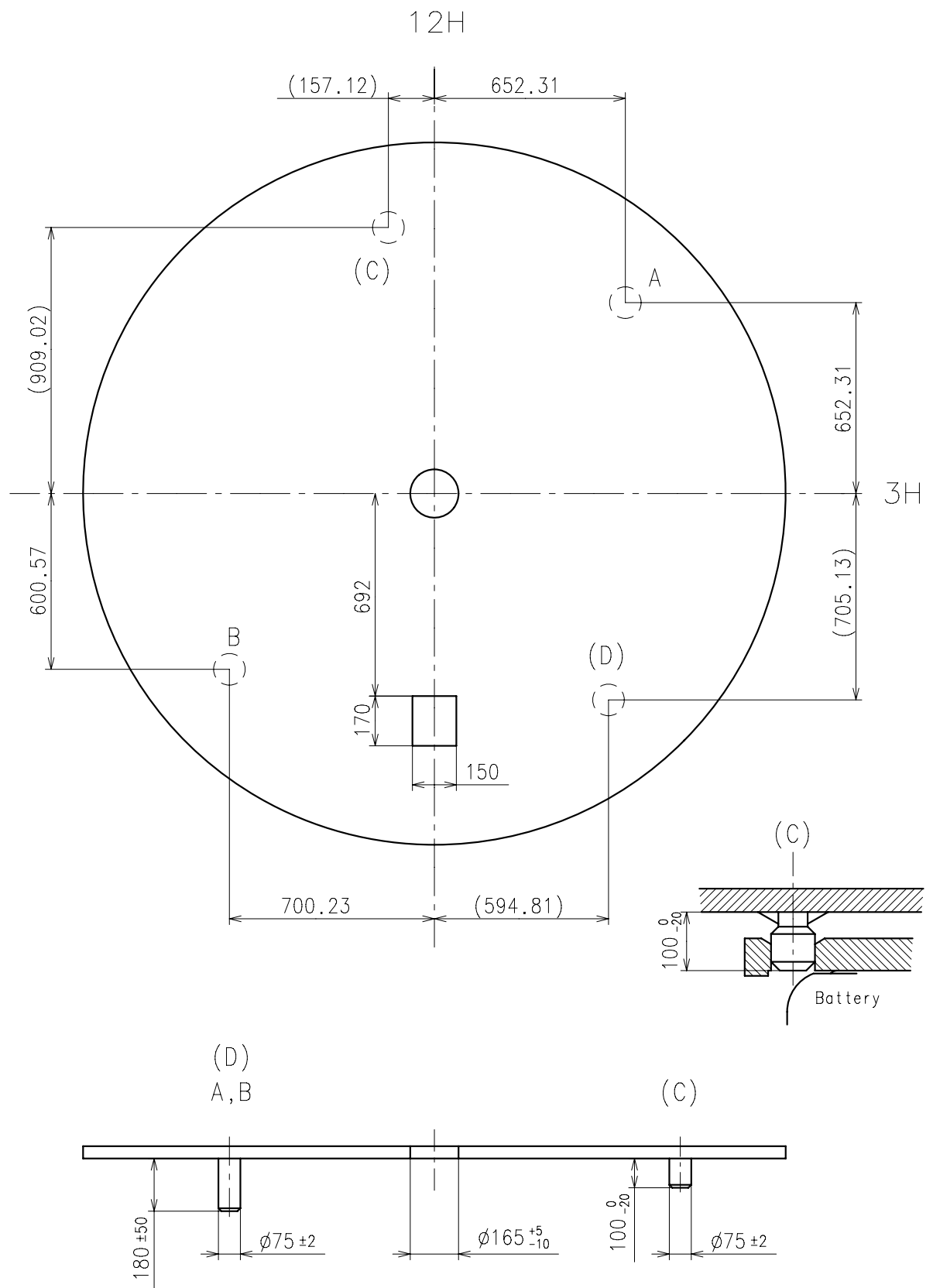
	Part No.	S1	S2	※ S3
Type-1 (Standard)	0351177	1366	1964	60
Type-2	0351578	2507	3105	650

Material : Steel

Hardness : Vickers 600±50



※ Use dial leg A-B or (C-D)



※ Use dial leg A-B or (C-D)

