

Cal. VX12E

ϕ 19.4 mm
H 2.60 mm

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Date: 3/Jul./'09

MOVEMENT SPECIFICATIONS

CAL. VX12E

Analog Quartz 8 3/4" Slim Movement / Three hands(H/M/S) with Calendar

1. MOVEMENT DIMENSIONS

*Outside diameter	ϕ 20.00mm $\times$ 18.00mm(3-9H)
*Casing diameter	ϕ 19.40mm $\times$ 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	$\pm$ 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 Jewel
*Anti-magnetism	Over 1600A/m (Direct current magnetic field)
*Maximum unbalance of hands	Second hand : 7 mg $\cdot$ mm Minute hand : 60 mg $\cdot$ mm Hour hand : 50 mg $\cdot$ mm

5. BATTERY

*Type / Size	Silver oxide battery / ϕ 7.9mm $\times$ t 1.6mm
*Recommended battery	SR716SW (Maxell, Panasonic, Sony)
*Nominal voltage	1.55 V
*Battery life	Approx. 3 years
*Driving current consumption	Approx. 0.80 μ A
*Operation stopping voltage	0.9 V

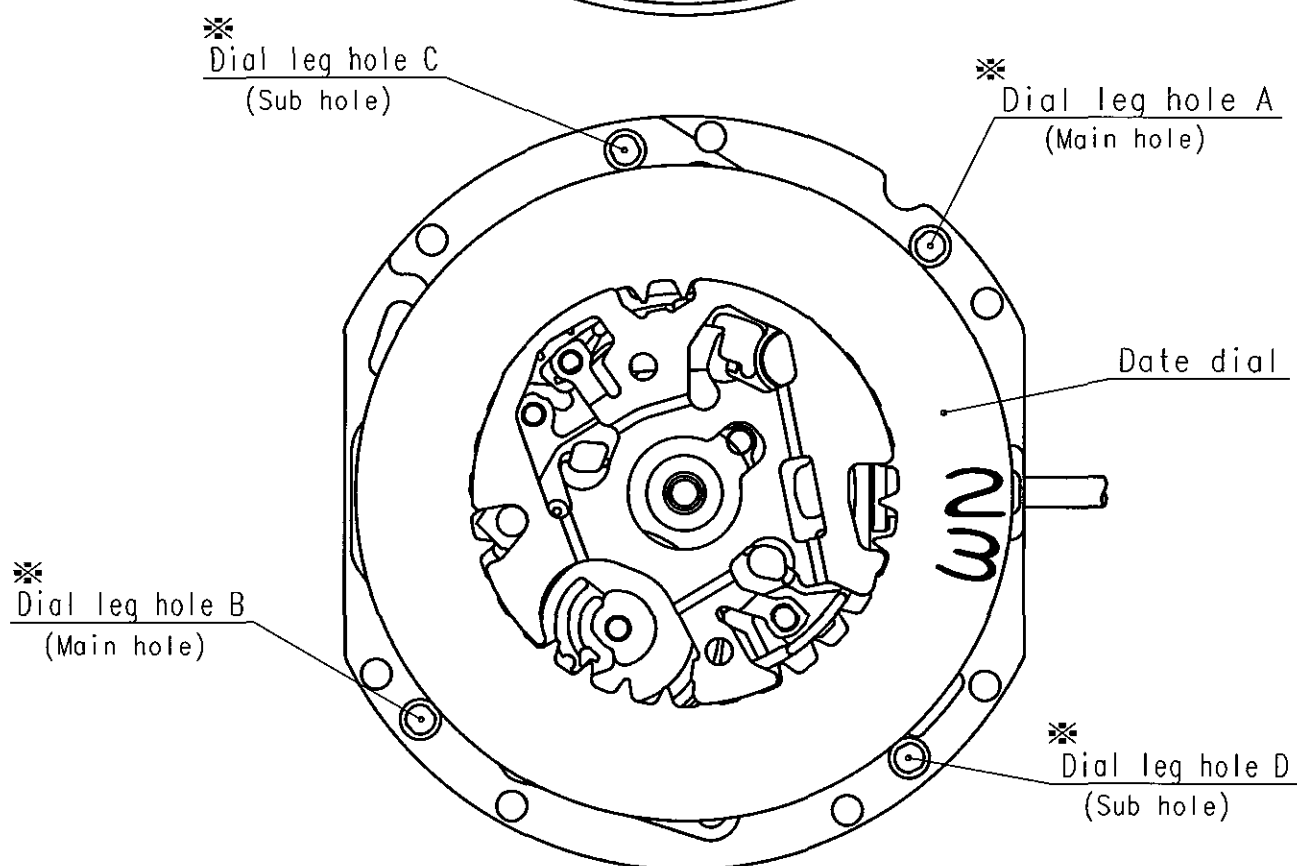
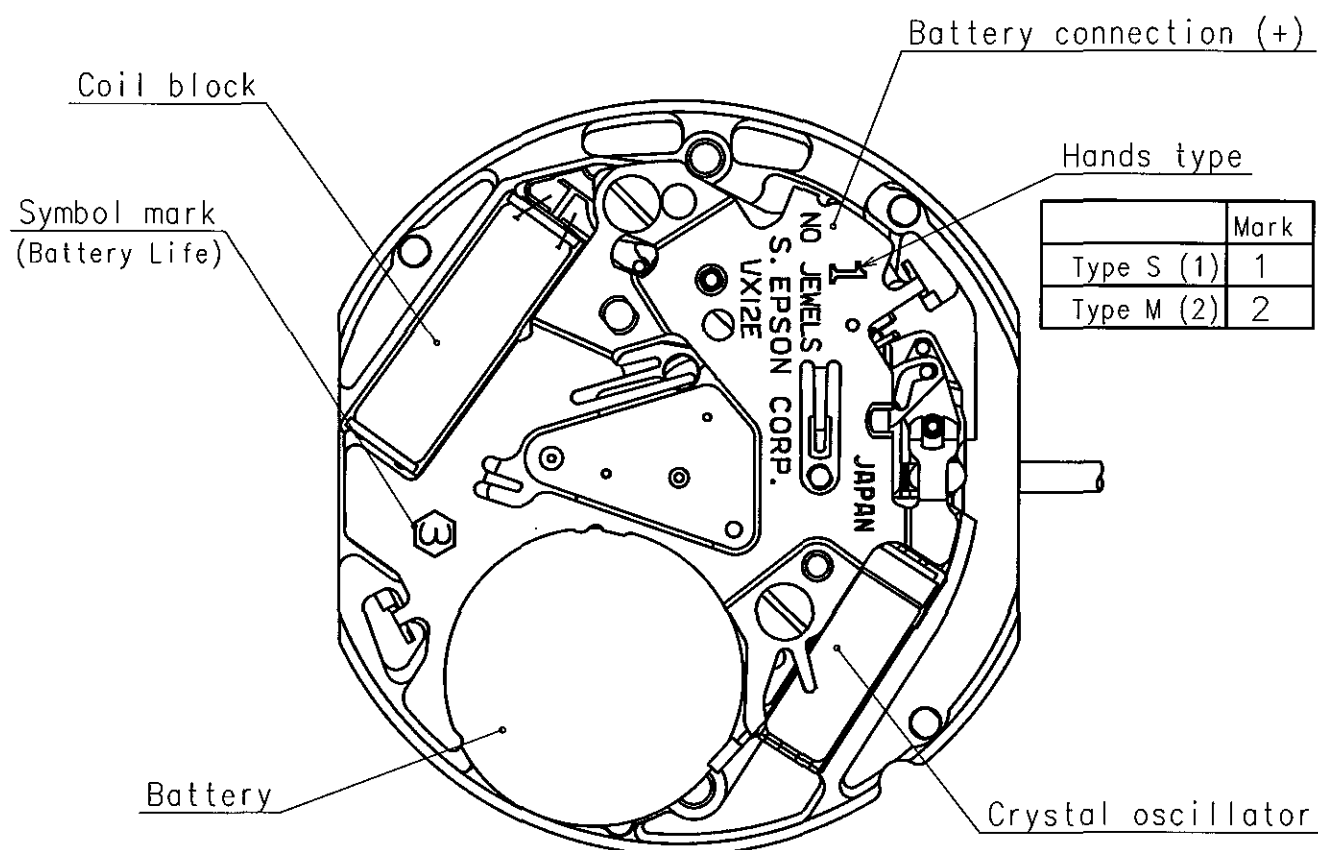
6. SEPARATED PARTS (Parts code)

*Hand setting stem	0351177 or 0351577
*Battery	SR716SW

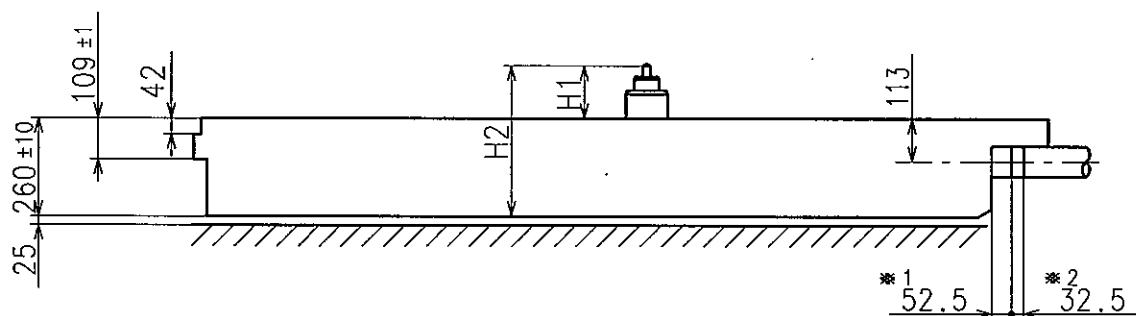
7. TEST OF ACCURACY

*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.



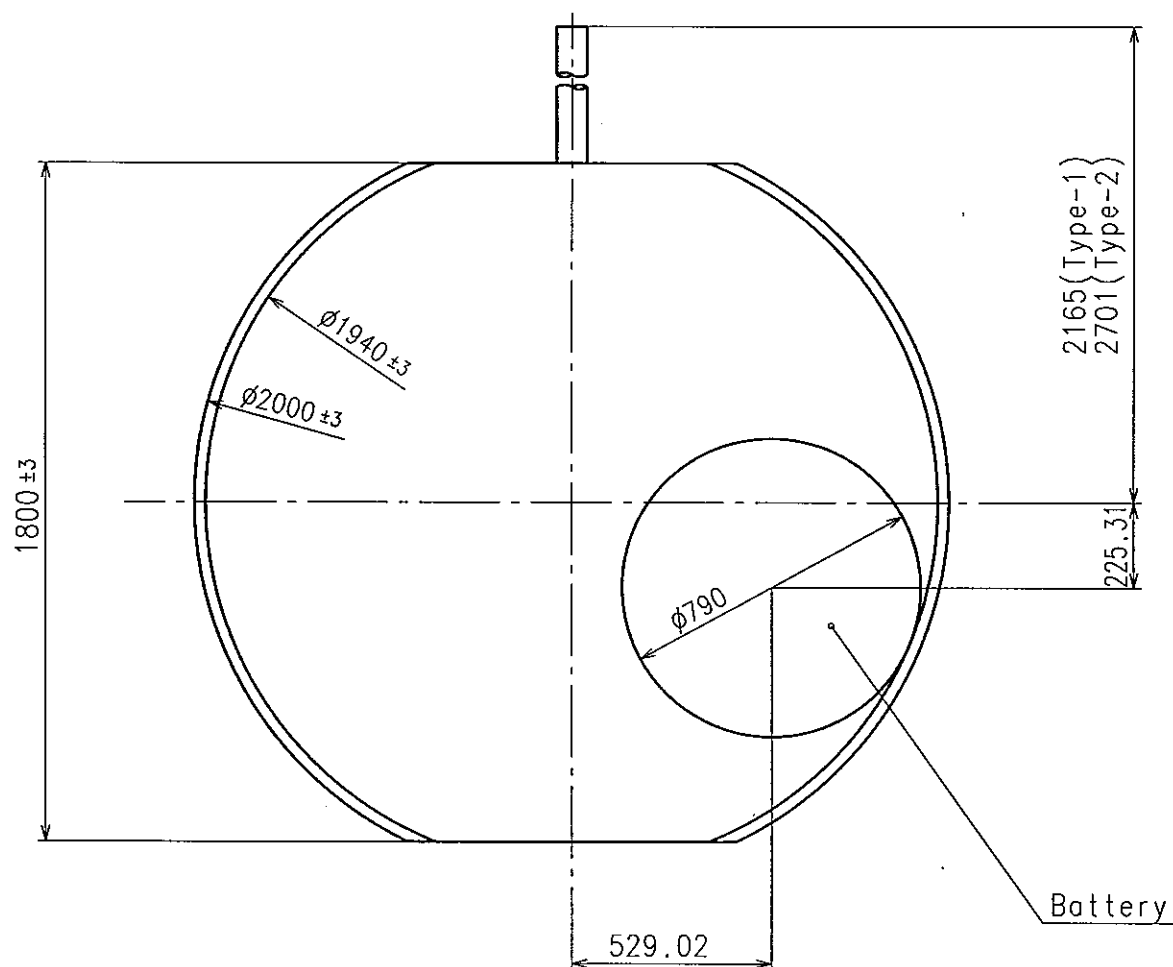
※ : Combination of dial leg hole A-B, (C-D)



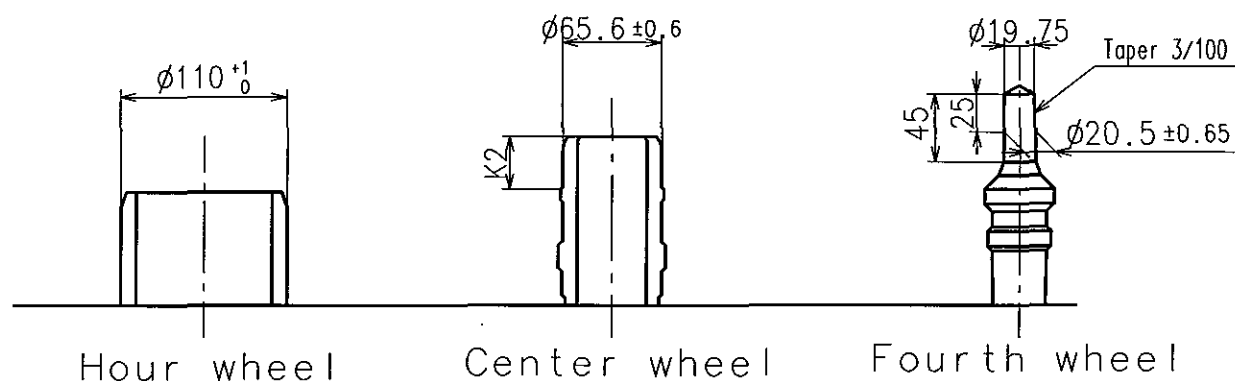
Center post		Type S (1) VX12E1*	Type M (2) VX12E2*
Maximum height from dial support	H1	140	182
Total height incl. movement	H2	400	442

*1:First pullout stroke

*2:Second pullout stroke



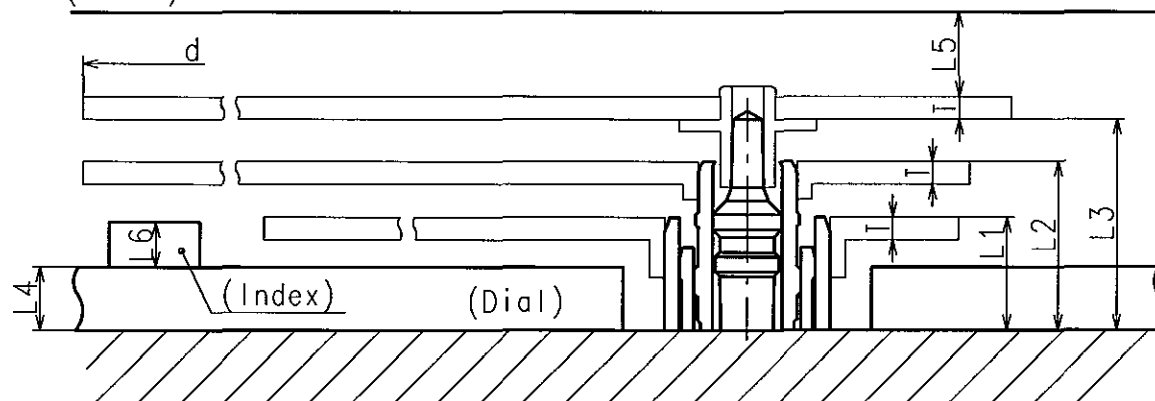
- * Hour hand unbalance $\leq 50\mu \text{ g} \cdot \text{m} (0.5\mu \text{ N} \cdot \text{m})$
- * Minute hand unbalance $\leq 60\mu \text{ g} \cdot \text{m} (0.6\mu \text{ N} \cdot \text{m})$
- * Second hand unbalance $\leq 7\mu \text{ g} \cdot \text{m} (0.07\mu \text{ N} \cdot \text{m})$



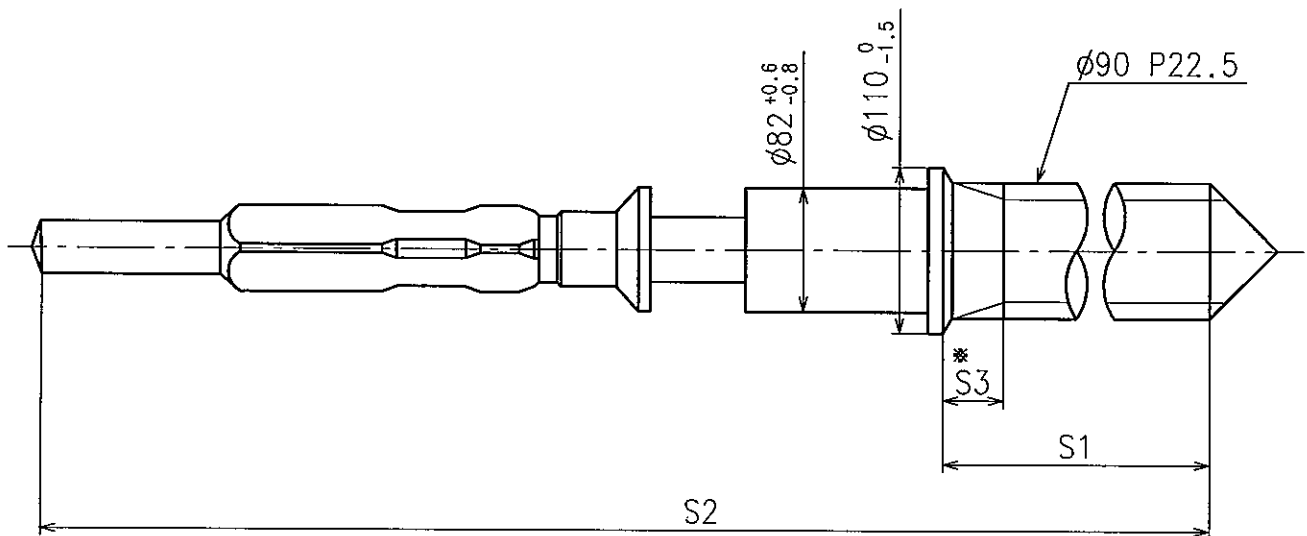
	Parts No.			Dimension
	Hour wheel	Center wheel	Fourth wheel	K2
Type S (1) VX12E1*	0271929	0221929	0241929	35
Type M (2) VX12E2*	0271942	0221904	0241904	35

" " " " " " "

(Glass) " " " " " "



	L1	L2	L3	L4	L5	L6	T	d
Type S (1) VX12E1*	75	112	140	40	MIN: 50	MAX: 30	15	MAX: Ø2500
Type M (2) VX12E2*	105	154	182	40	MIN: 50	MAX: 60	15	MAX: Ø2500



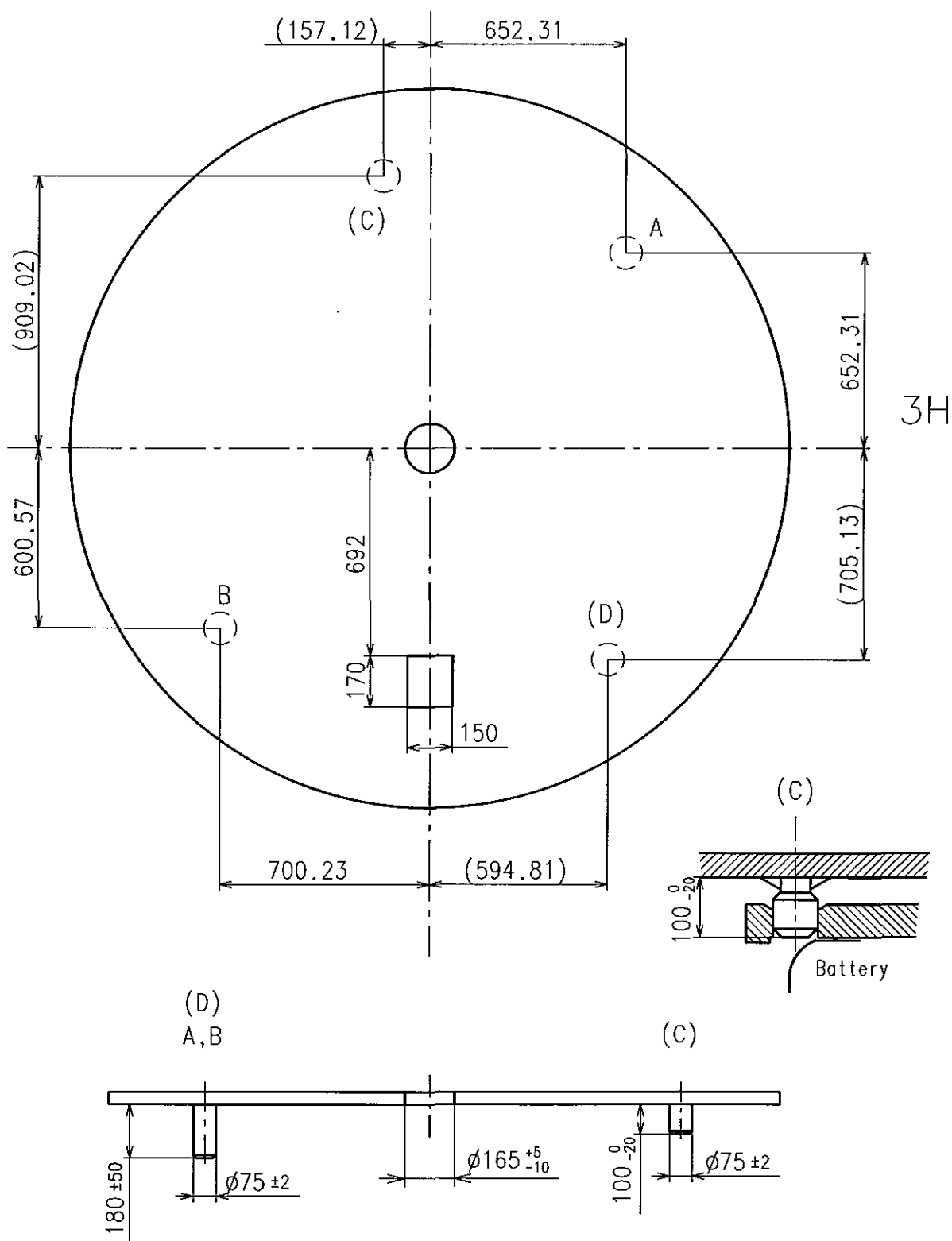
※ Not threaded

	Part No.	S1	S2	※ S3
Type-1 (Standard)	0351177	1366	1964	60
Type-2	0351577	1902	2500	1000

Material : Steel

Hardness : Vickers 600±50

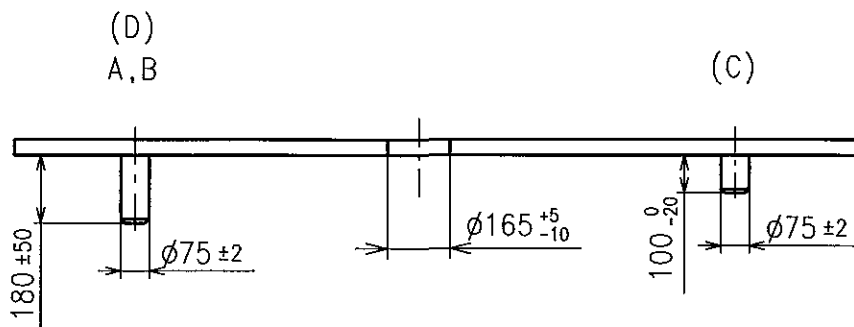
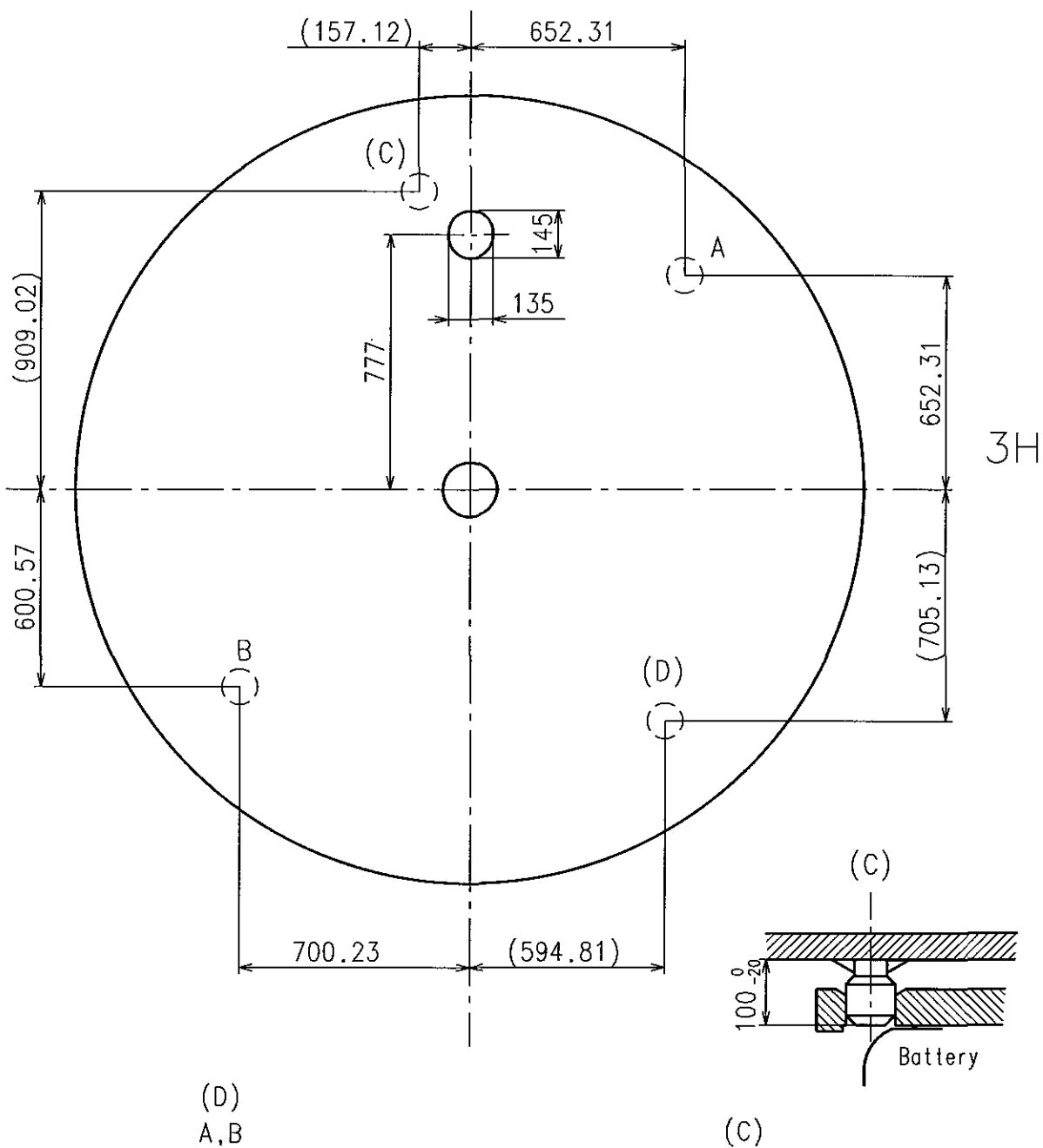
12H



* Use dial leg hole as like below A-B or (C-D)

VX19E

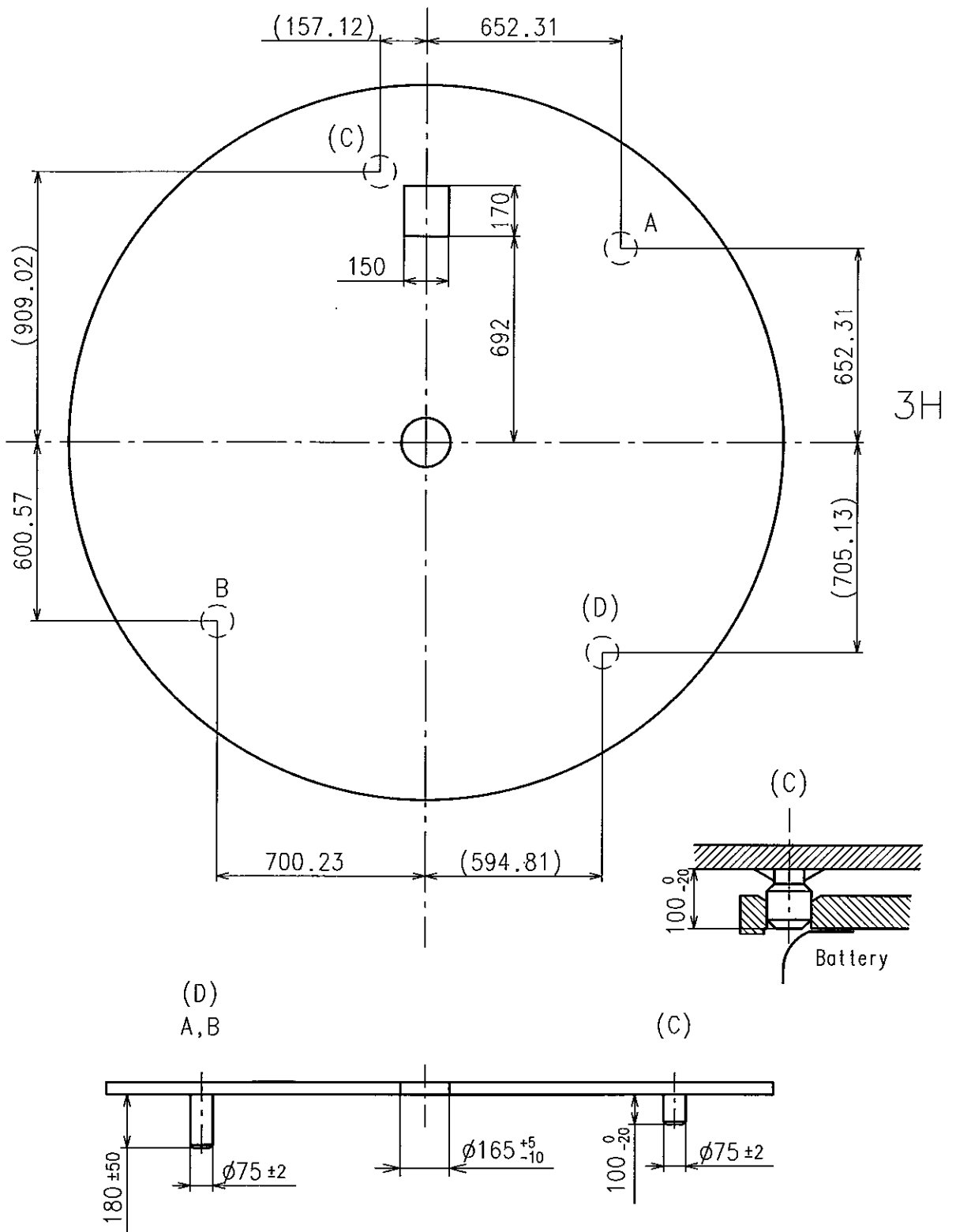
12H



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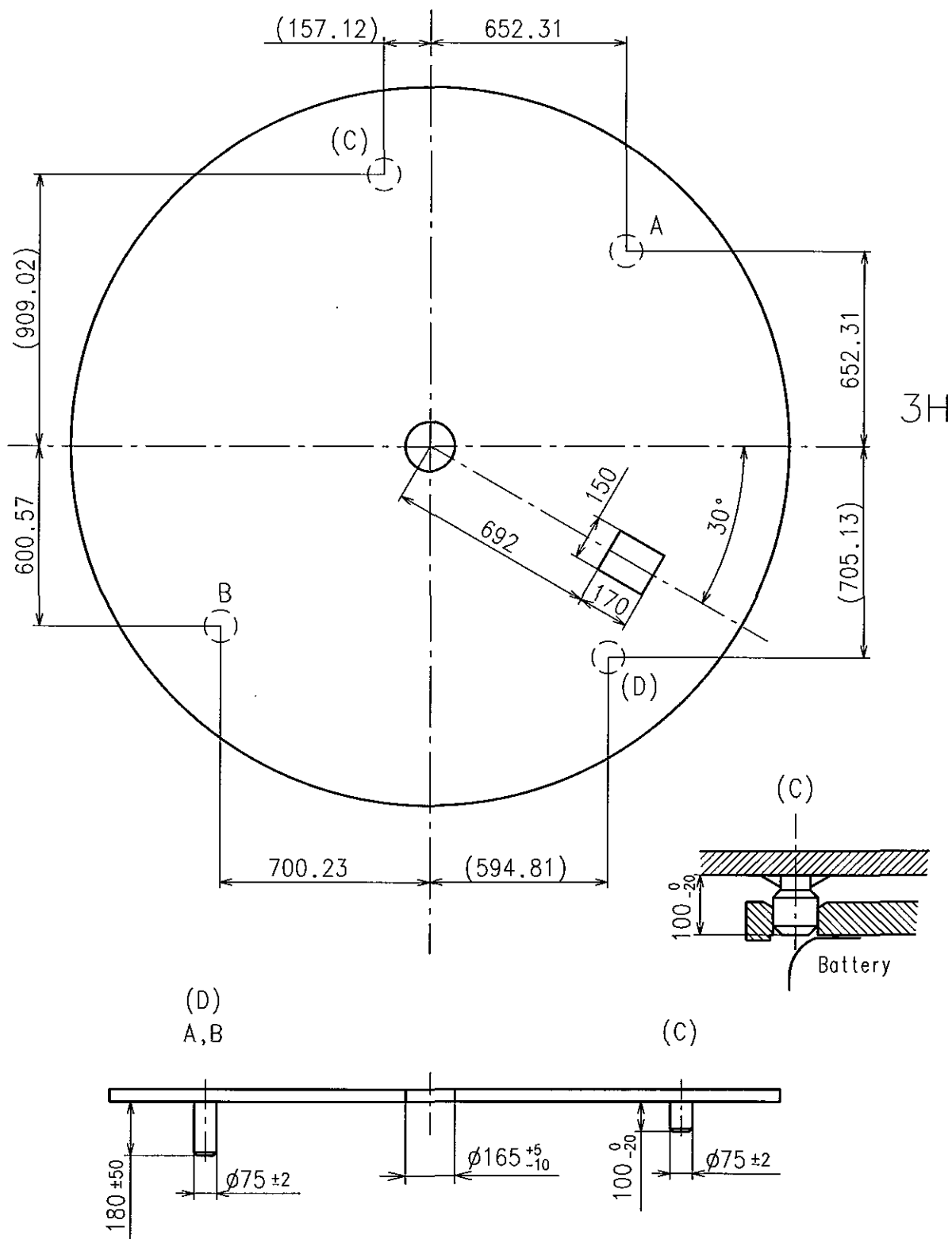
VX19E

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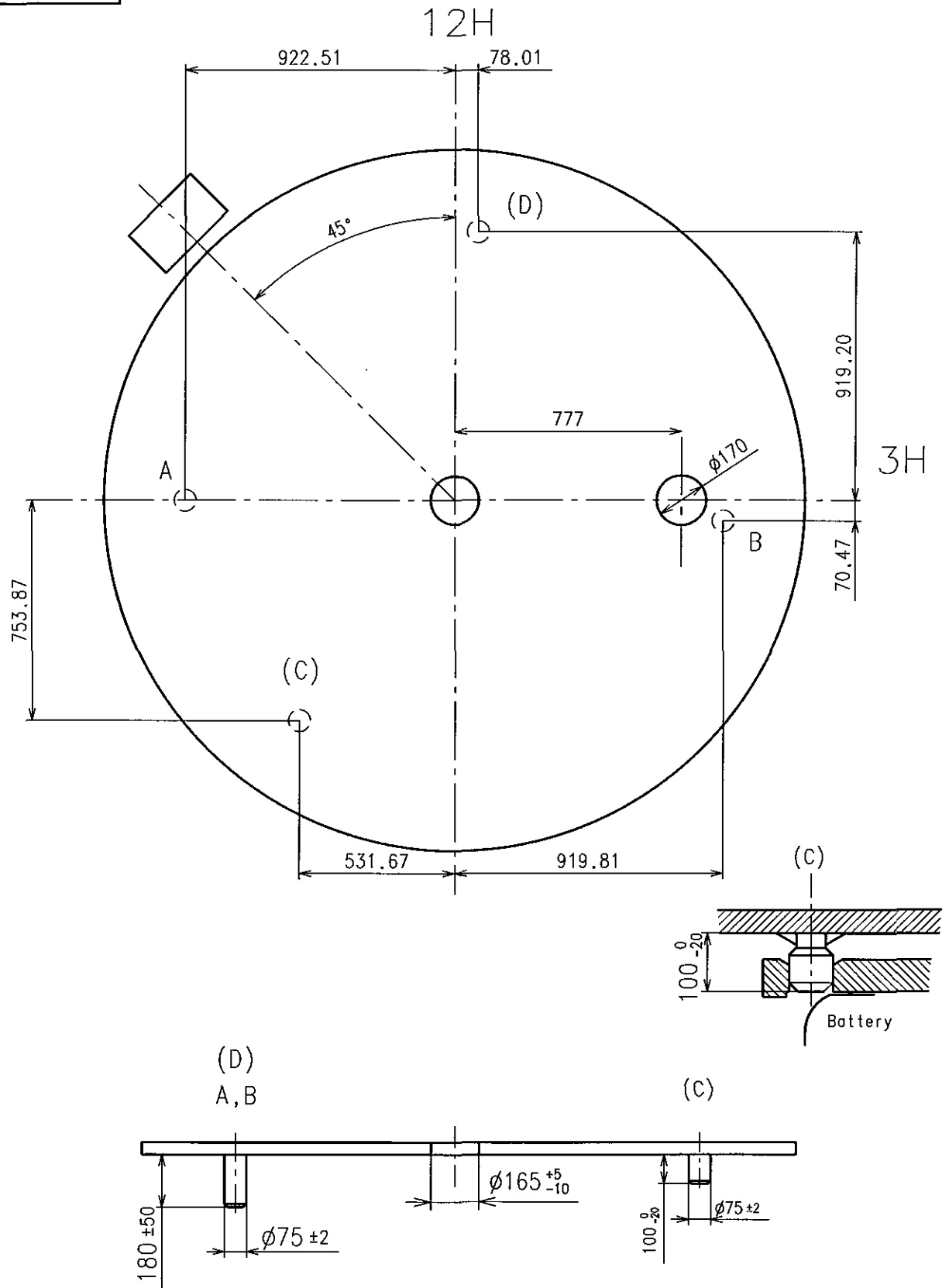


*Use dial leg hole as like below A-B or (C-D)

12H



* Use dial leg hole as like below A-B or (C-D)



※ Use dial leg hole as like below A-B or (C-D)

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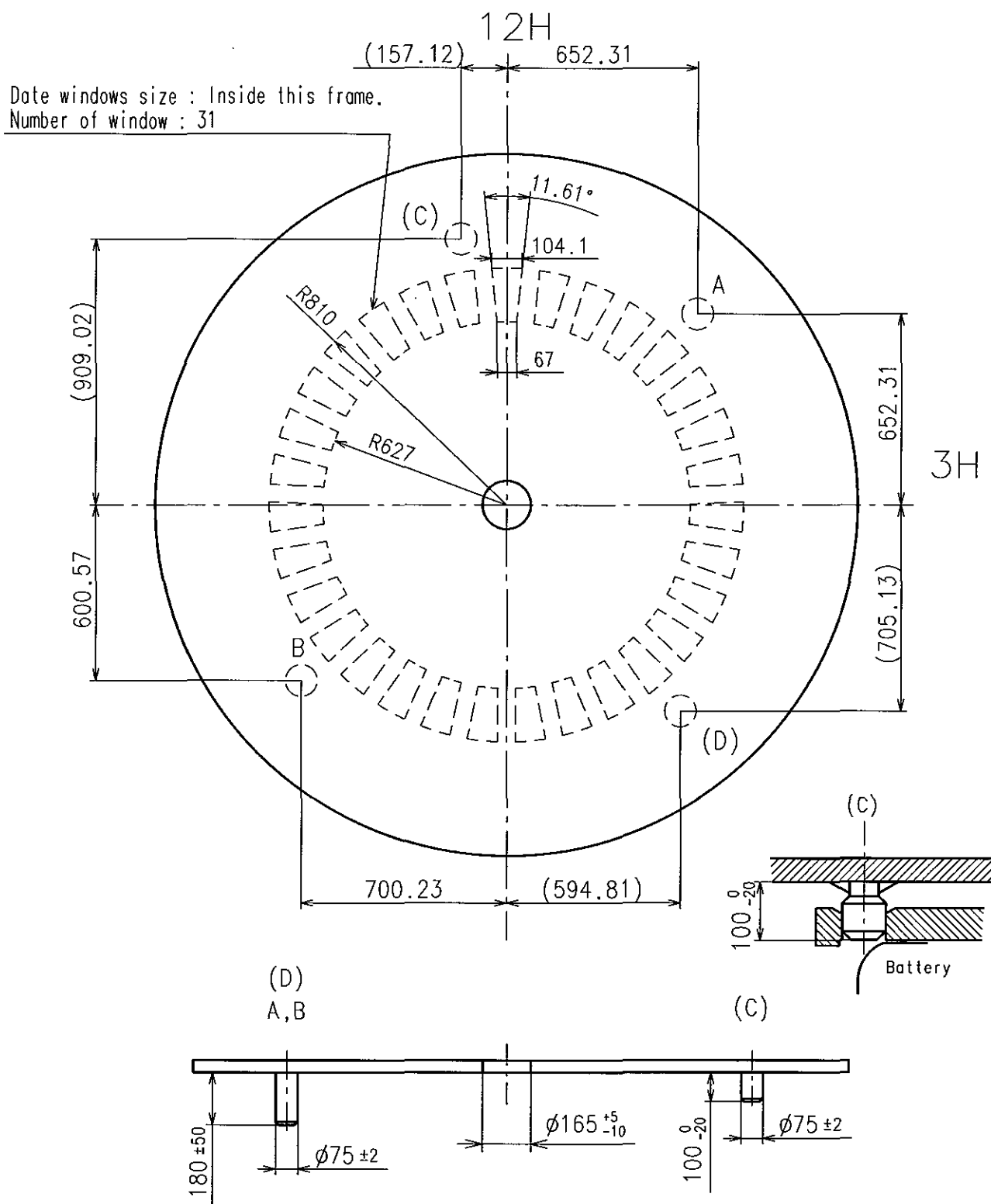
Dial-08

Date: 27/Aug./'04

Rev.: 00

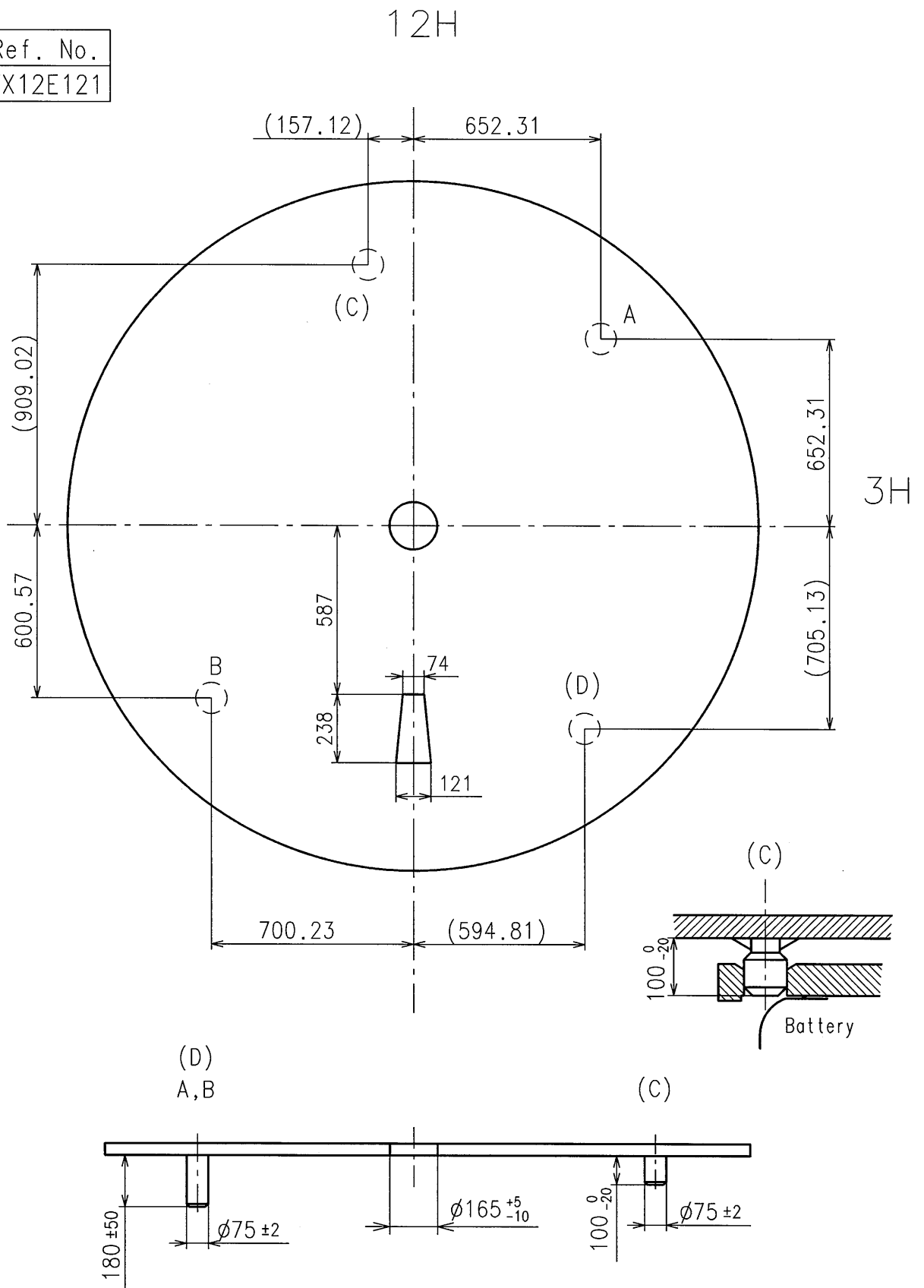
VX19E

Free form of date windows are possible within the [] frame.
(Circle or square and etc.)

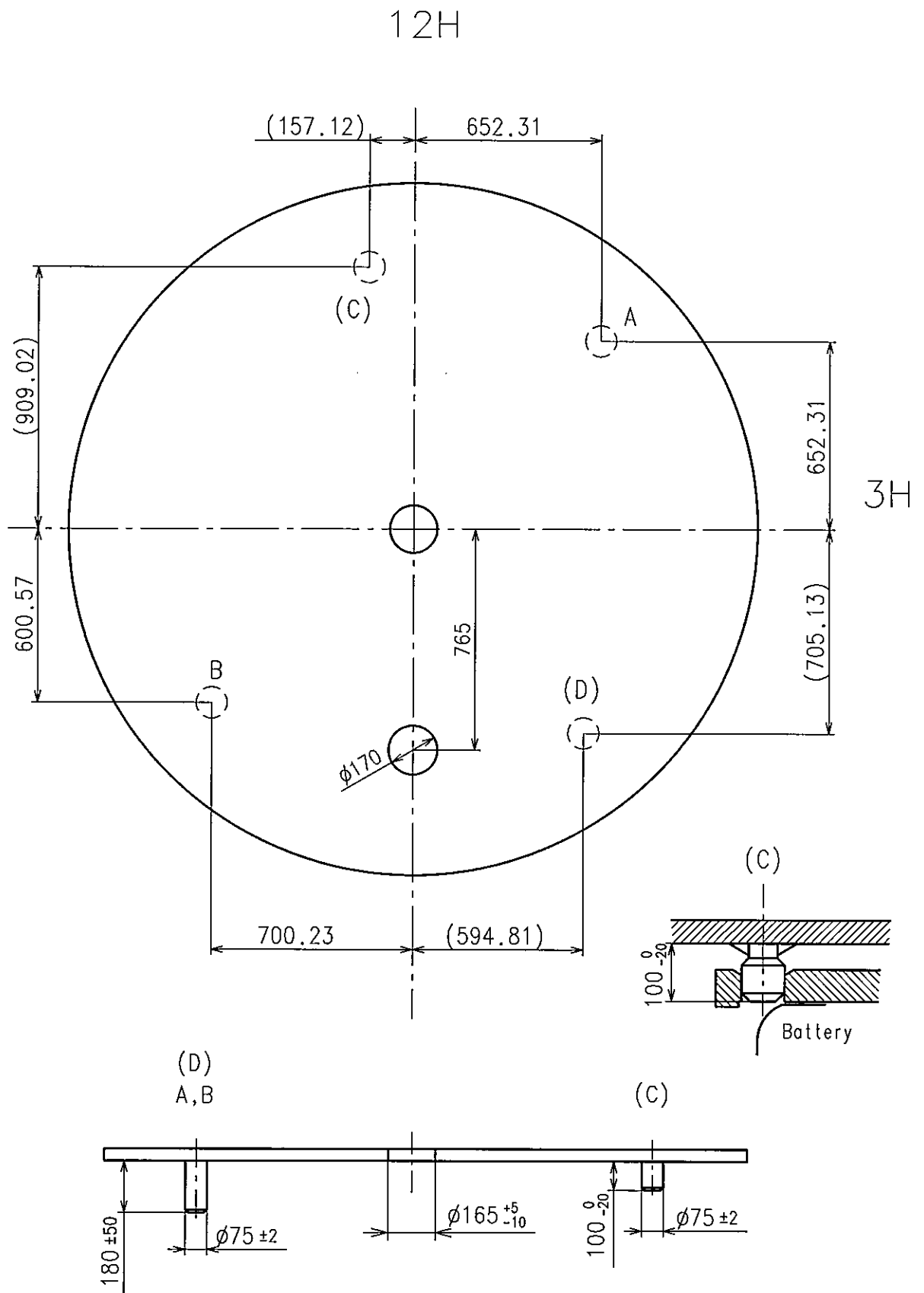


* Use dial leg hole as like below A-B or (C-D)

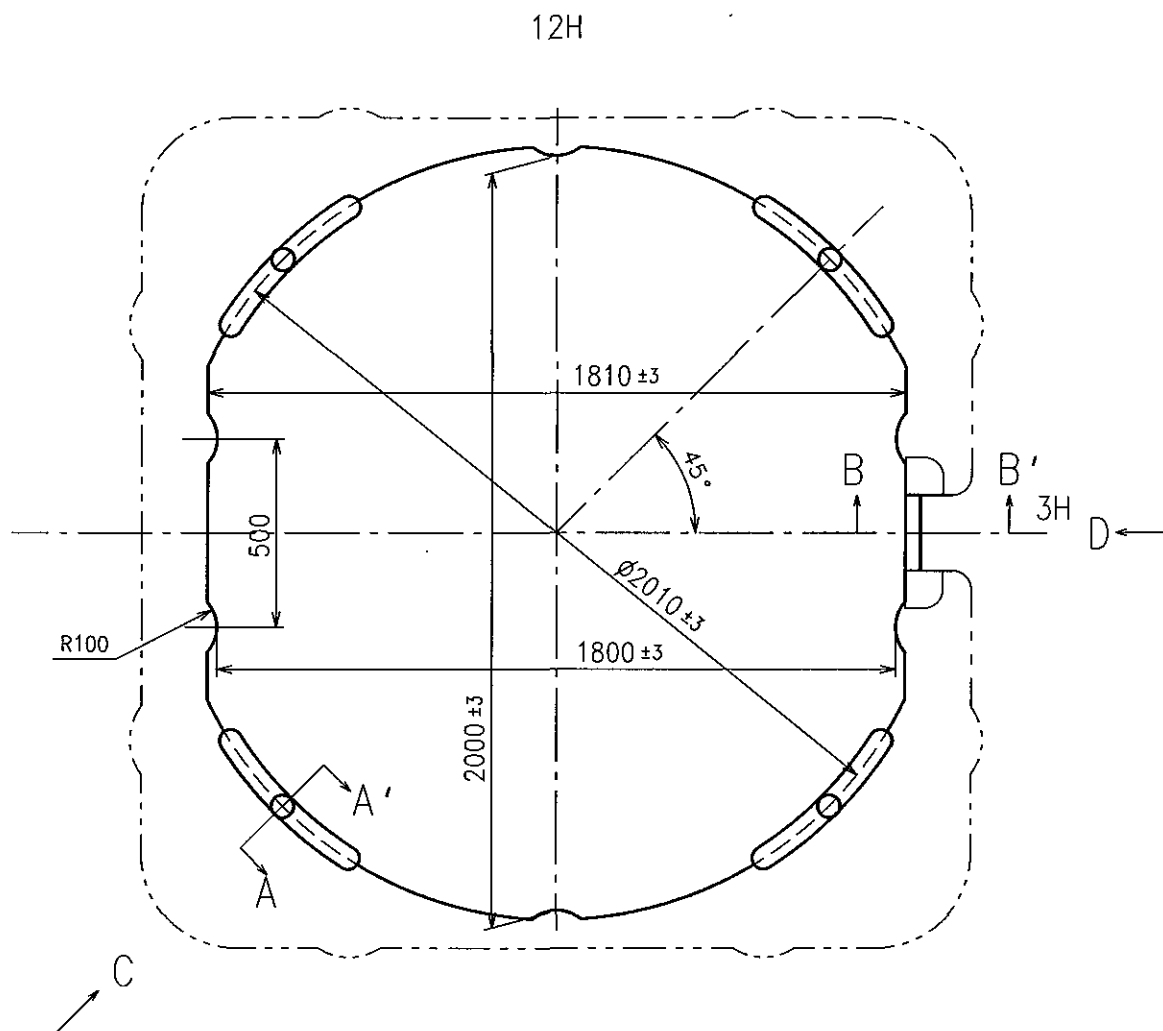
Ref. No.
VX12E121



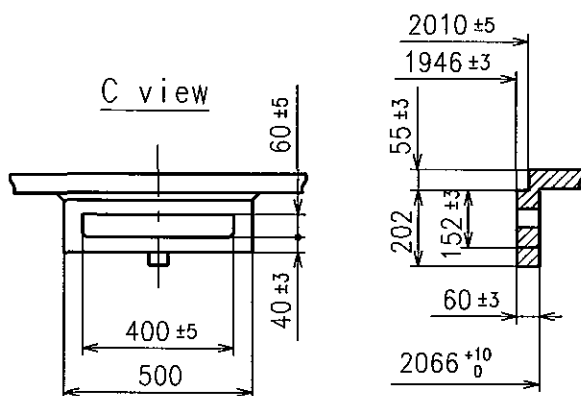
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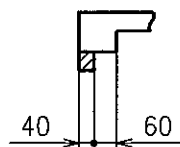
※ Use dial leg hole as like below A-B or (C-D)



A-A' section



B-B' section



D view

