

Cal. VJ53A/B

ϕ 28.60 mm

H 2.94 mm

Item	Version No.
Specification	Version 4
Appearance-1 (VJ53A)	Version 2
Appearance-2 (VJ53B)	Version 1
Appearance-3	Version 2
Casing	Version 3
Hand Fitting-1 (VJ53A)	Version 2
Hand Fitting-2 (VJ53B)	Version 1
Hand Setting Stem	Version 3
Dial - 1	Version 3
Dial - 2	Version 3
Dial - 3	Version 3
Dial - 4	Version 2
Casing Ring	Version 2
Assembly Plan	Version 2
Hands	Version 2



MOVEMENT SPECIFICATIONS

CAL.VJ53A/B 12 1/2 Ligne Quartz Movement Three Hands with Day & Date

1. MOVEMENT DIMENSIONS

- Outside diameter 25.70mm (12H~6H) x 25.70mm (3H~9H), ϕ 28.60mm
- Casing diameter 24.10mm (12H~6H) x 25.70mm (3H~9H), ϕ 27.80mm
- Total height 2.94 mm (including the battery)

2. TIME STANDARD

- Type of quartz oscillator Tuning fork
- Frequency of quartz oscillator 32,768 H Z
- Accuracy Monthly rate: Less than 20 seconds per month at normal temperature range
- Regulation device Nil
- Regulation hands unbalance
 - Second : Less than 0.07 μ N·m (7mg·mm)
 - Minute : Less than 0.30 μ N·m (30mg·mm)
 - Hour : Less than 0.30 μ N·m (30mg·mm)

3. BATTERY

- Type Silver oxide battery
- Size ϕ 6.8 x t 2.1 (mm)
- Battery life Approx. 3 years
- Recommended battery SR621SW (SEIZAIKEN)

4. STEPPING MOTOR

- Type Two pole stepping motor
- Step 180° every second

5. JEWEL

0 jewel

6. ANTIMAGNETISM

(direct current magnetic field)

≥ 1600 A / m

7. SHOCK RESISTANCE

On equal level with general quartz movement

8. OPERATING TEMPERATURE RANGE

From - 5°C to + 50°C

9. SETTING MECHANISM

- Crown at normal position Free
- Crown pulled out to 1st click
 - Clockwise : Instant day change
 - Counterclockwise : Instant date change
- Crown pulled out to 2nd click Time setting, second setting and reset switch

10. TEST OF ACCURACY

- Equipment to be used
 - Quartz Tester
 - Greiner Quartz Timer - C
 - Witschi Q-Tester 4000 ~
- Duration of measurement 10 seconds
- Microphone to be used Electromagnetic detection type (DM-1)

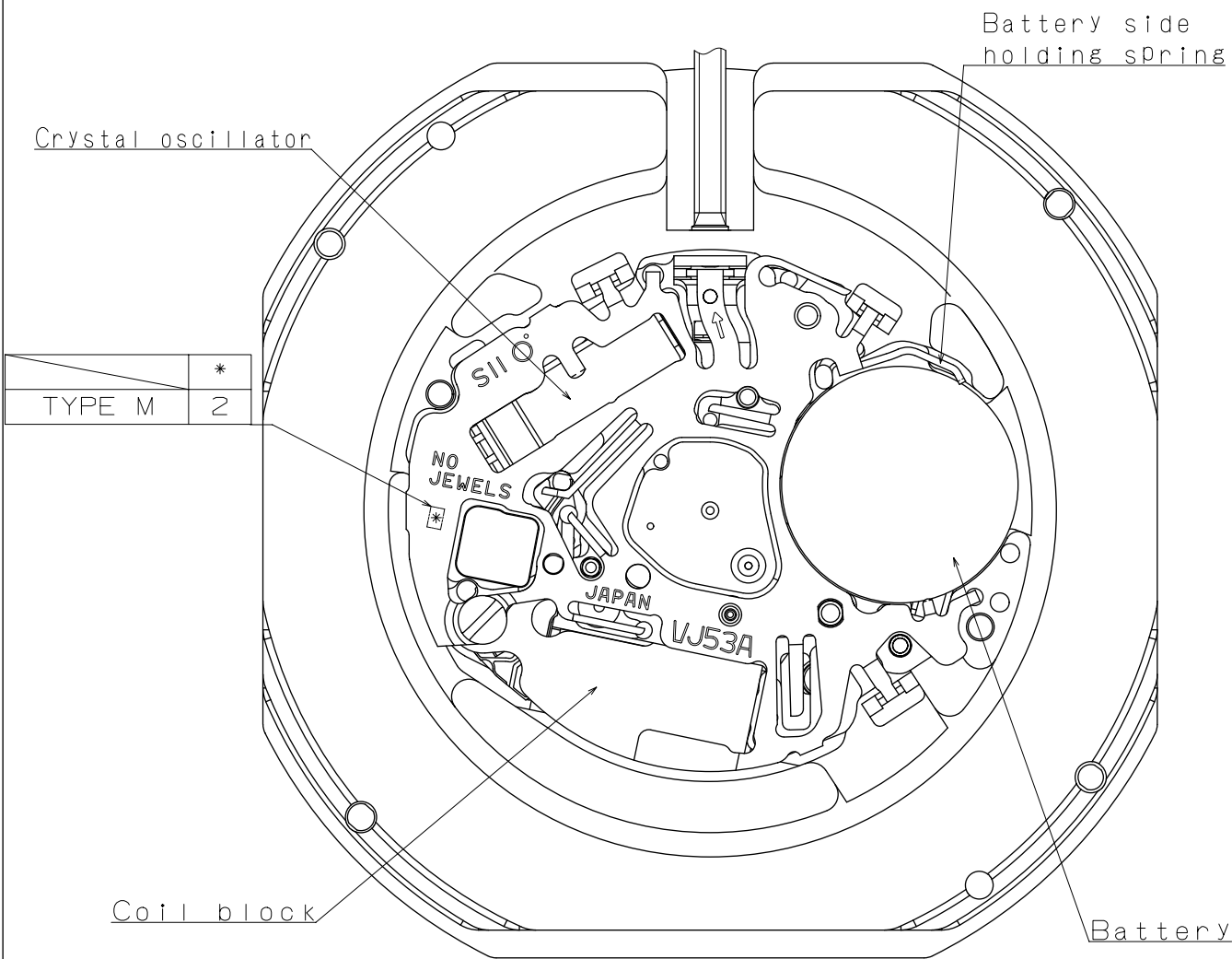
11. ATTACHED PARTS

Parts Name	Parts Code
Silver oxide battery	3016 - 17G0
Hand setting stem	0351 - 0010

*** All specifications are subject to change without notice.**

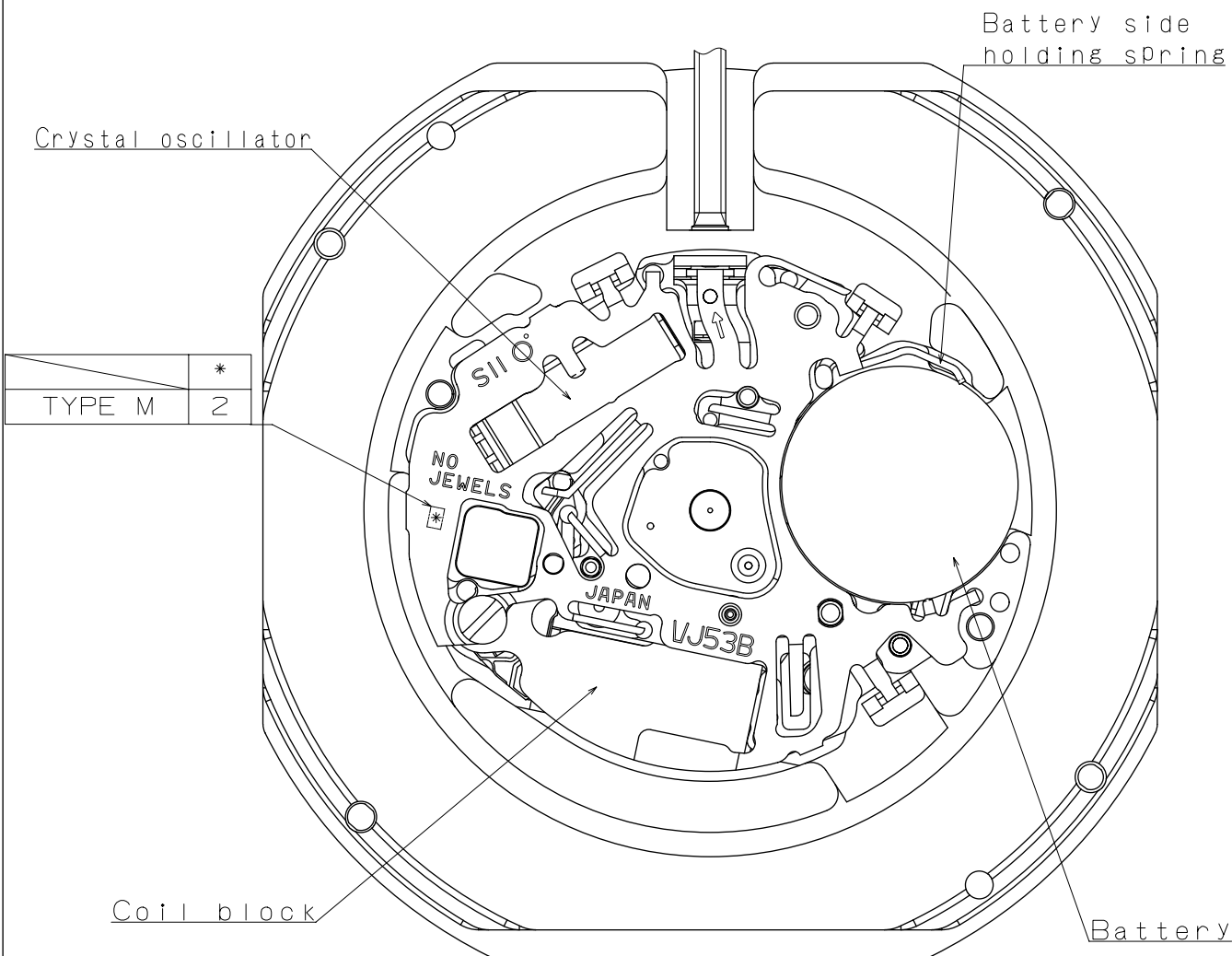
SII Products

Version: 4



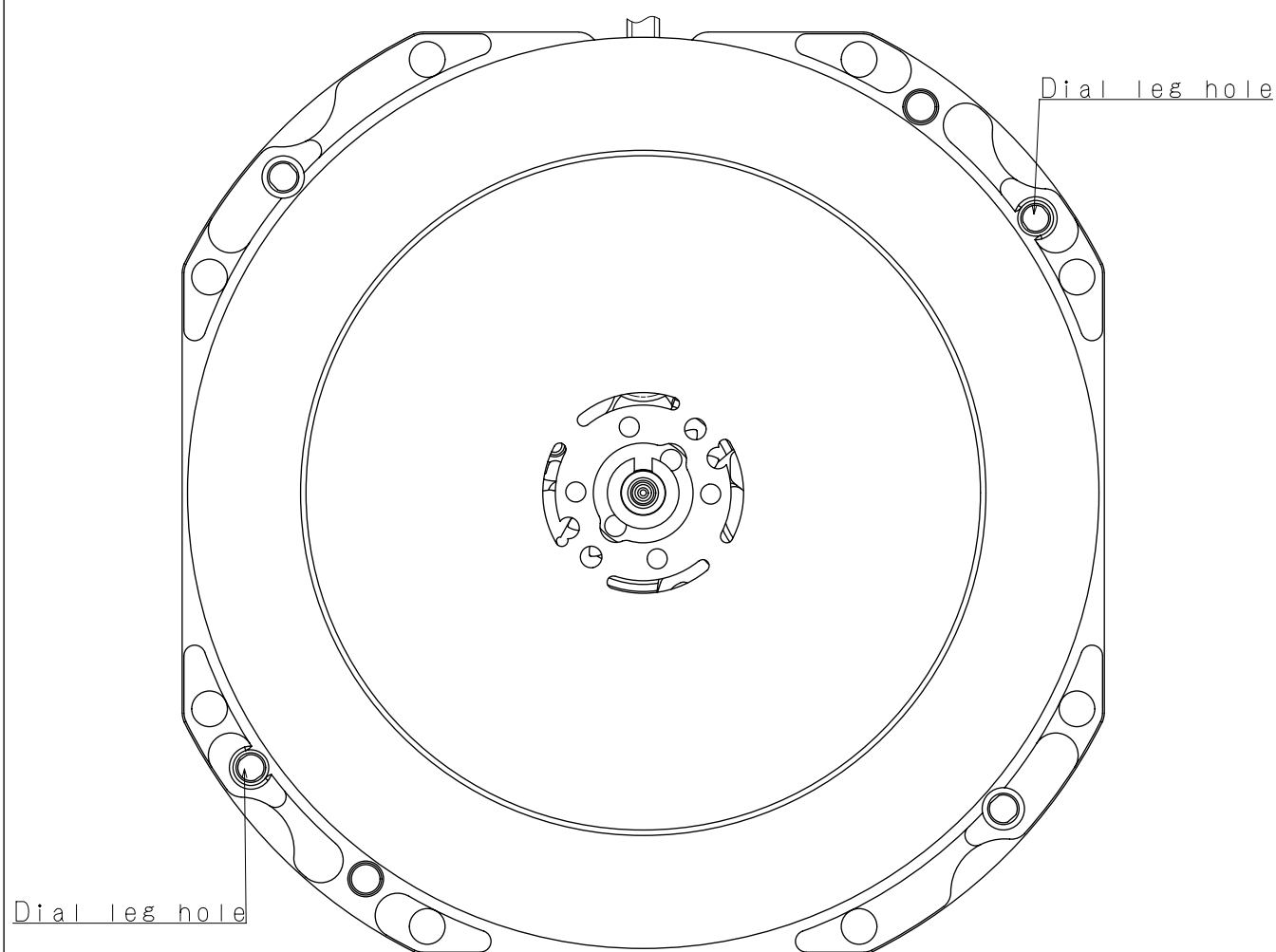
Scale : 5/1
Unit : 1=1/100mm

Version:2



Scale : 5/1
Unit : 1=1/100mm

Version:1



Scale : 5/1

Unit : 1=1/100mm

Version:2

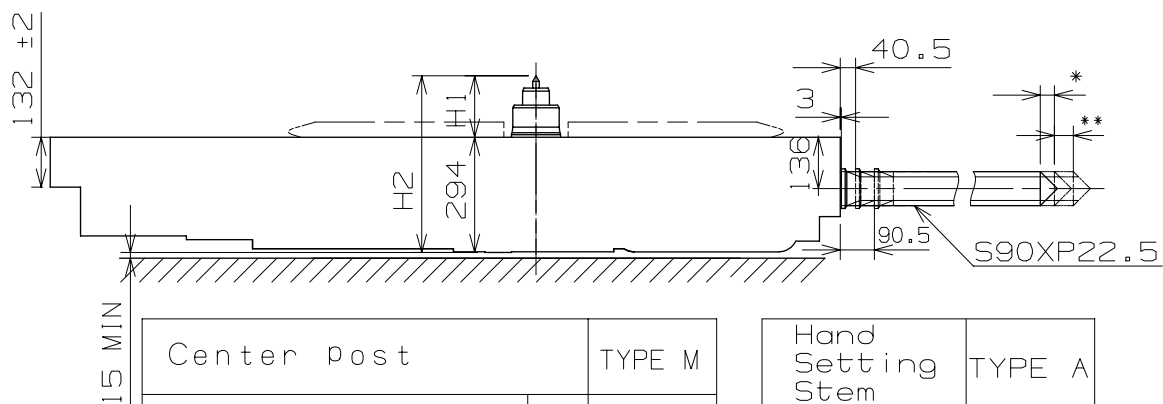
Casing

Cal. VJ53A/B

Battery Side holding spring Type.

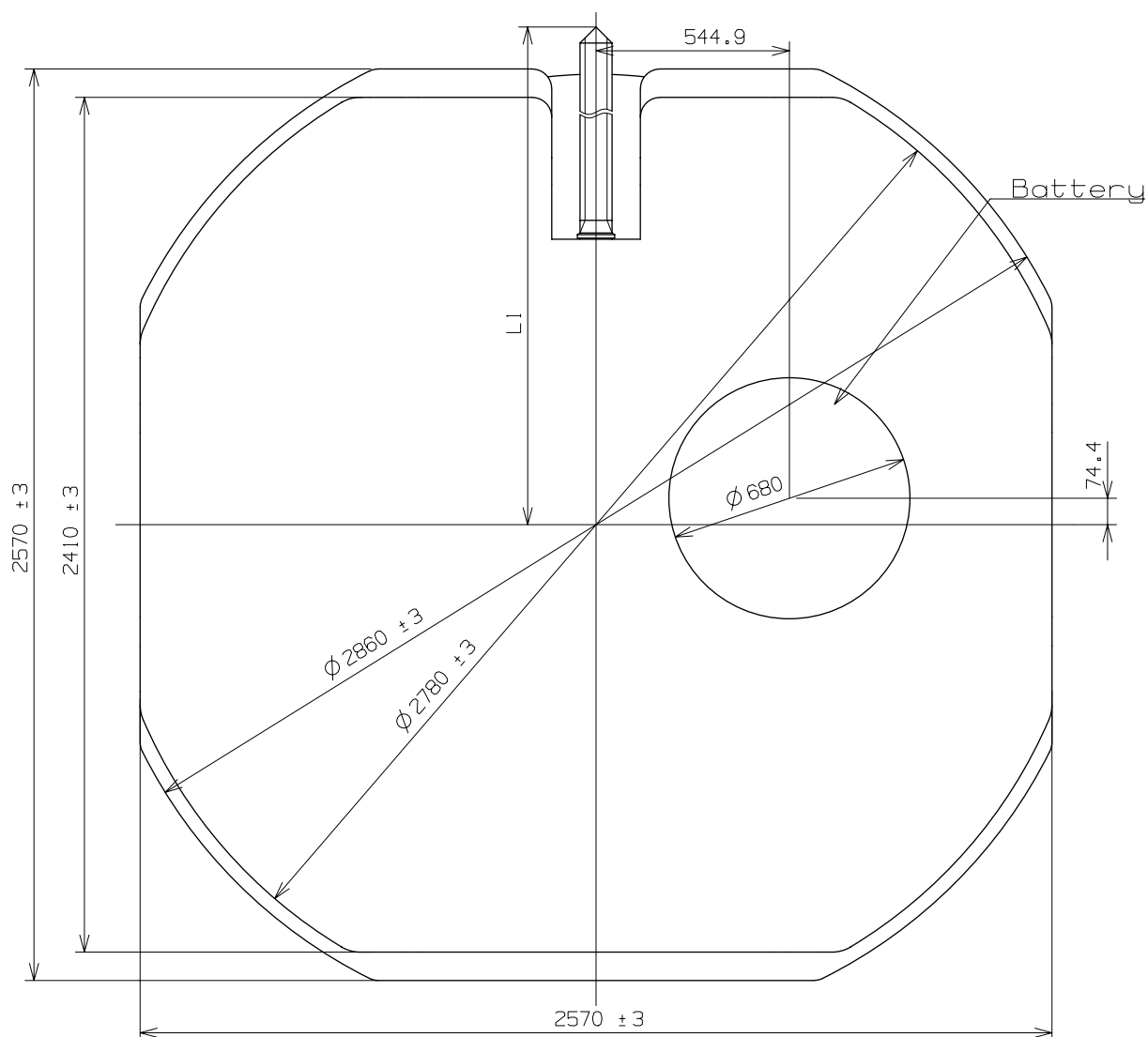
* First Pull out Stroke 37.5

** Second Pull out Stroke 50



Center post		TYPE M
Maximum height from main plate surface	H1	162.7
Total height incl. movement	H2	456.7

Hand Setting Stem	TYPE A
L1	2413



Scale : 5/1

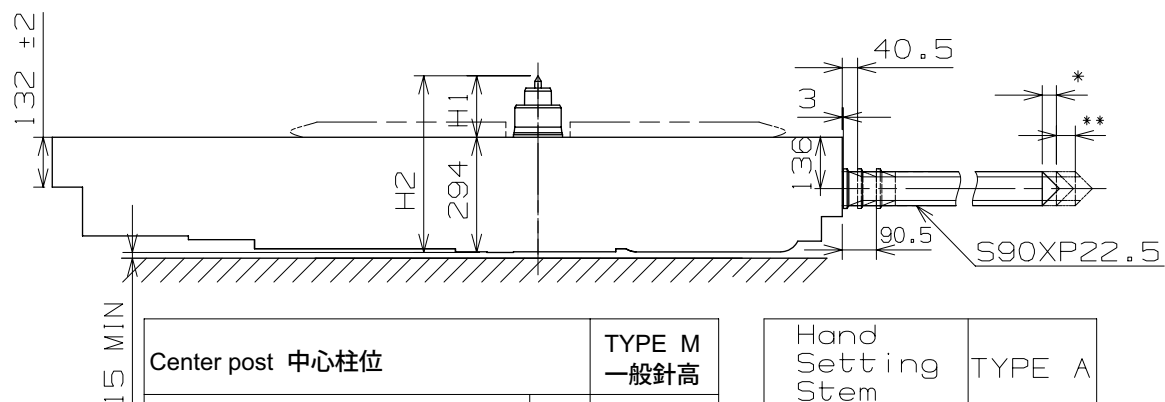
Unit : 1=1/100mm

Version:3

Battery Side holding spring Type.

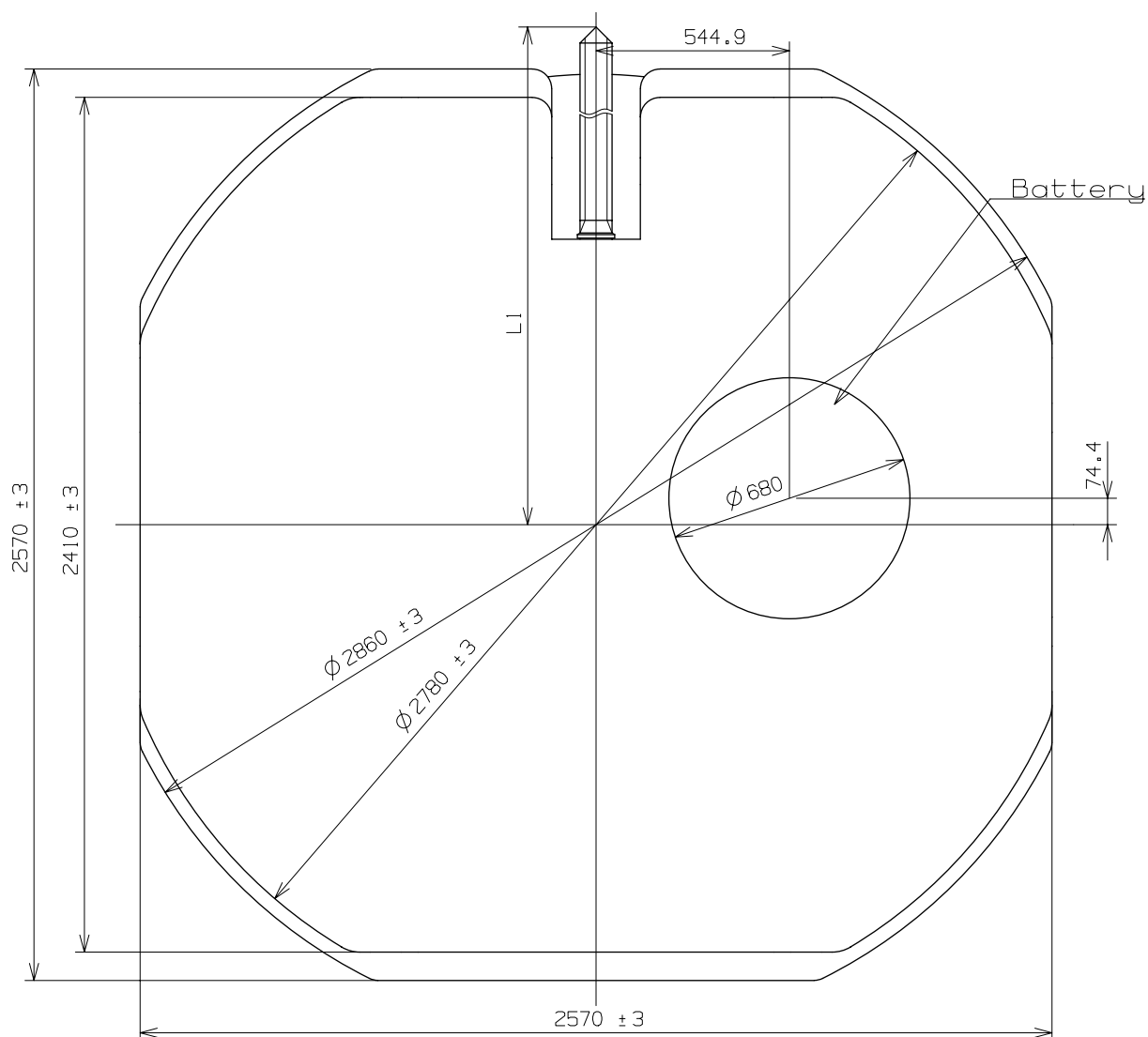
* First Pull out Stroke 37.5

**** Second Pull out Stroke 50**



Center post 中心柱位		TYPE M 一般針高
Maximum height from main plate surface. 與機芯平面之最大高度	H1	162.7
Total height incl. movement. 機芯總高度	H2	456.7

Hand Setting Stem	TYPE A
L1	2413



Scale : 5/1

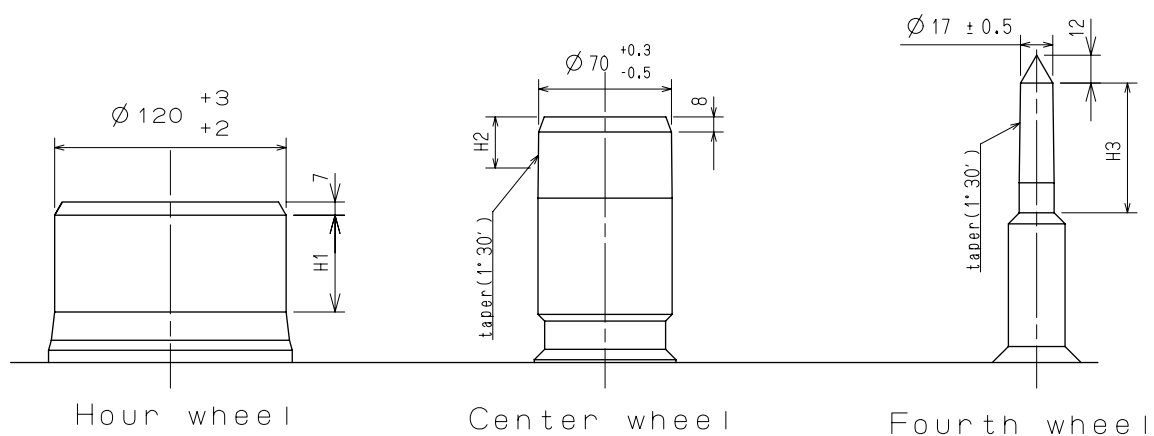
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Version:3

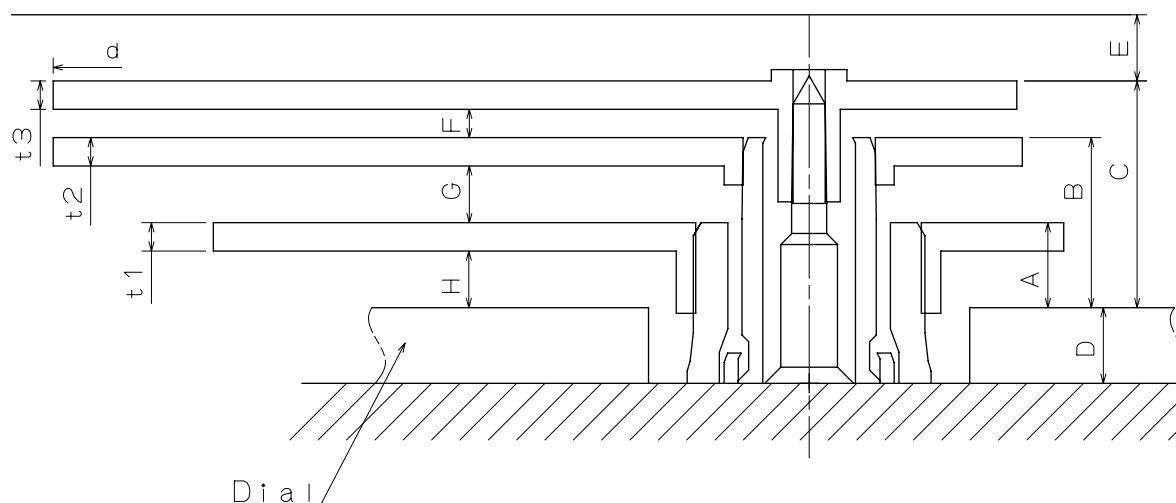
Hand Fitting - 1

Cal. VJ53A

Hour hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07 \mu\text{N}\cdot\text{m}$ (7mg·mm)



	Part. No.			Dimension		
	Hour wheel	Center wheel	Fourth wheel	H1	H2	H3
TYPE M	0273 0170	0221 0660	0241 3190	51	27	69



	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M	45	90	120	40	35	15	30	30	15	15	15	Ø 2500MAX

Scale : 25/1

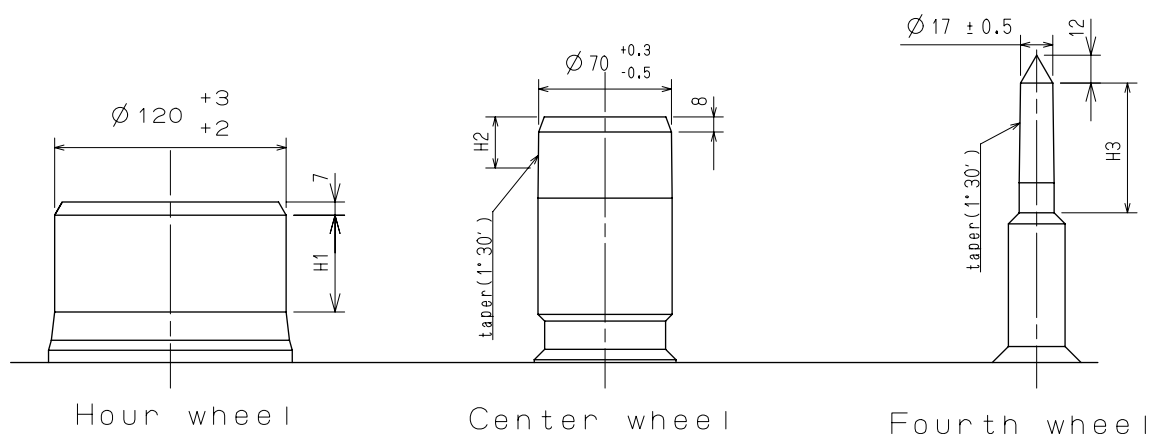
Unit : 1=1/100mm

Version:2

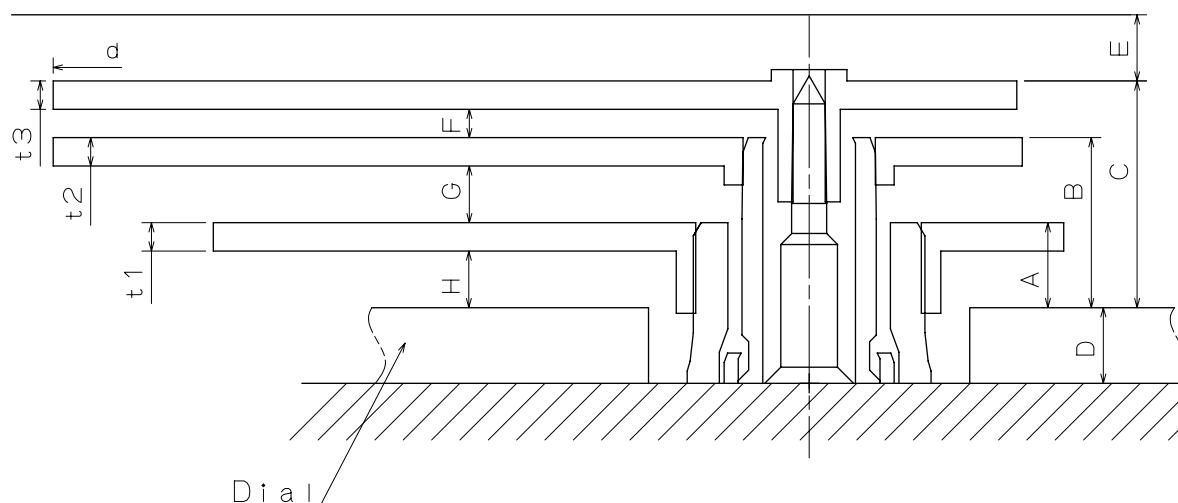
Hand Fitting - 1

Cal. VJ53A

Hour hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3 \mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07 \mu\text{N}\cdot\text{m}$ (7mg·mm)



	Part. No.			Dimension		
	Hour wheel 時針輪	Center wheel 分針輪	Fourth wheel 秒針輪	H1	H2	H3
TYPE M 一般針高	0273 0170	0221 0660	0241 3190	51	27	69



	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M 一般針高	45	90	120	40	35	15	30	30	15	15	15	2500MAX

Scale : 25/1

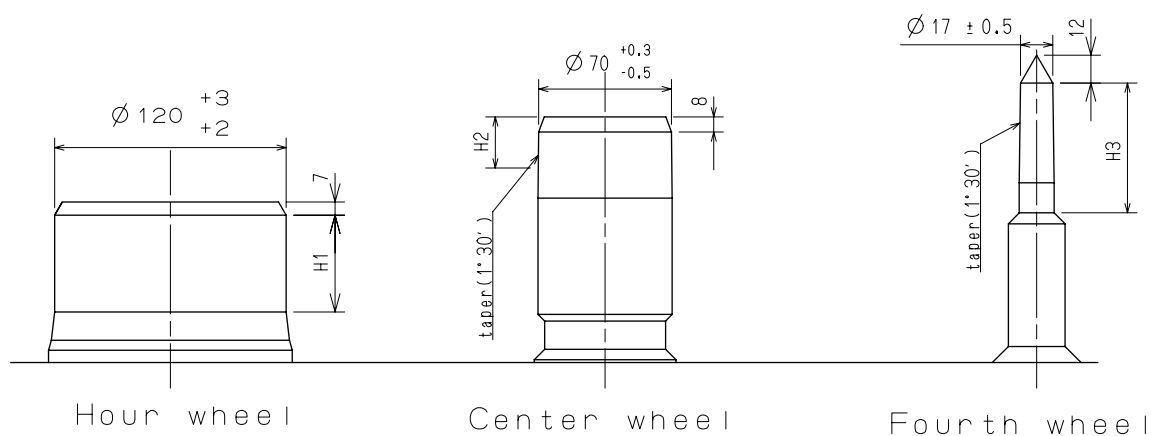
Unit : 1=1/100mm

Version:2

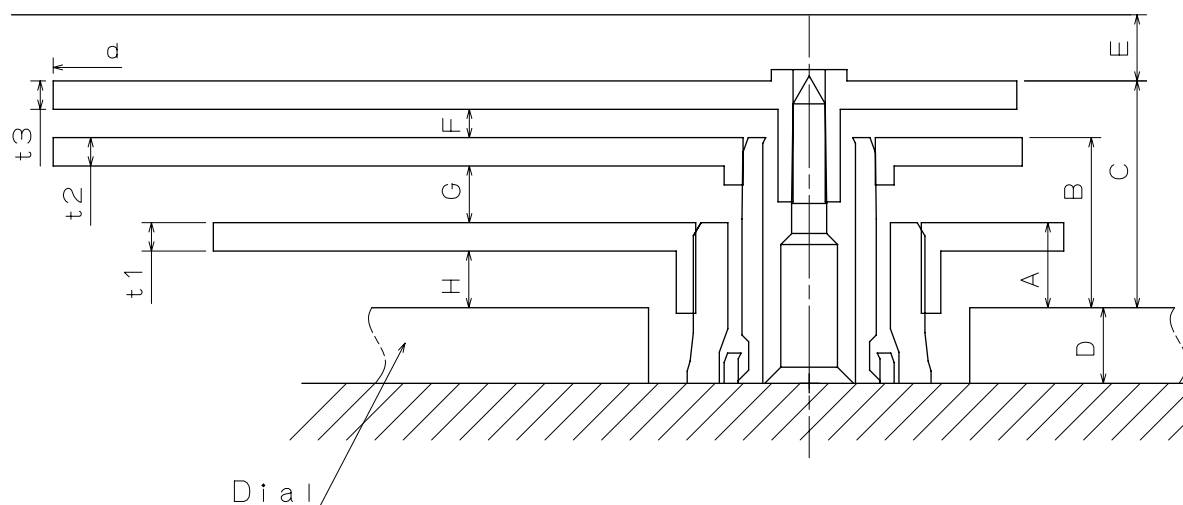
Hand Fitting-2

Cal. VJ53B

Hour hand unbalance $\leq 0.3\mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3\mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07\mu\text{N}\cdot\text{m}$ (7mg·mm)



	Part. No.			Dimension		
	Hour wheel	Center wheel	Fourth wheel	H1	H2	H3
TYPE M	0273 0170	0221 0660	0144 1250	51	27	69



	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M	45	90	120	40	35	15	30	30	15	15	15	Ø 2500MAX

Scale : 25/1

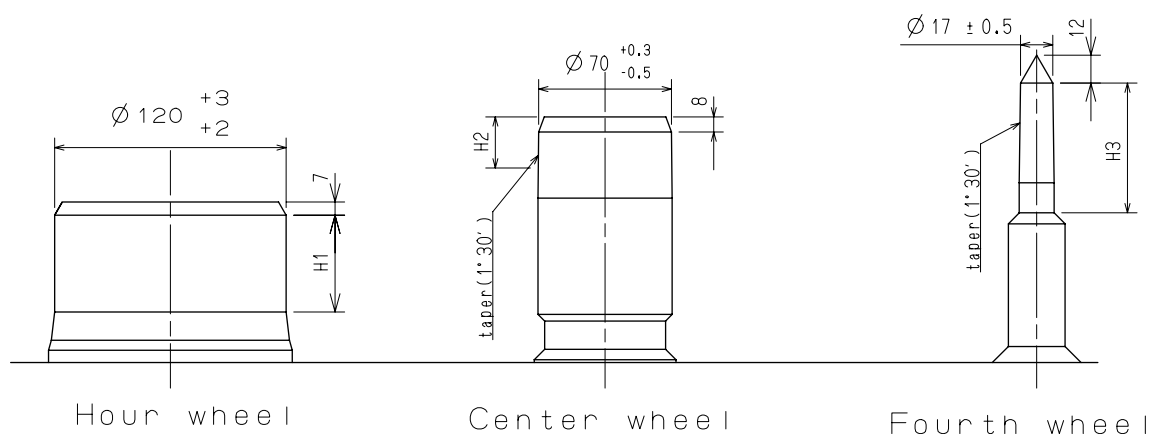
Unit : 1=1/100mm

Version:1

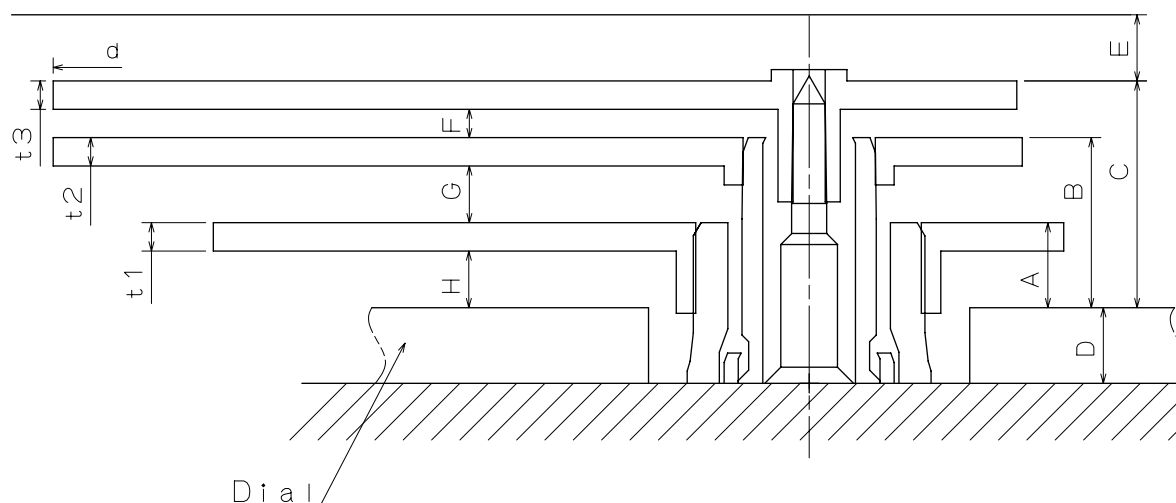
Hand Fitting-2

Cal. VJ53B

Hour hand unbalance $\leq 0.3\mu\text{N}\cdot\text{m}$ (30mg·mm)
 Minute hand unbalance $\leq 0.3\mu\text{N}\cdot\text{m}$ (30mg·mm)
 Second hand unbalance $\leq 0.07\mu\text{N}\cdot\text{m}$ (7mg·mm)



	Part. No.			Dimension		
	Hour wheel 時針輪	Center wheel 分針輪	Fourth wheel 秒針輪	H1	H2	H3
TYPE M 一般針高	0273 0170	0221 0660	0144 1250	51	27	69

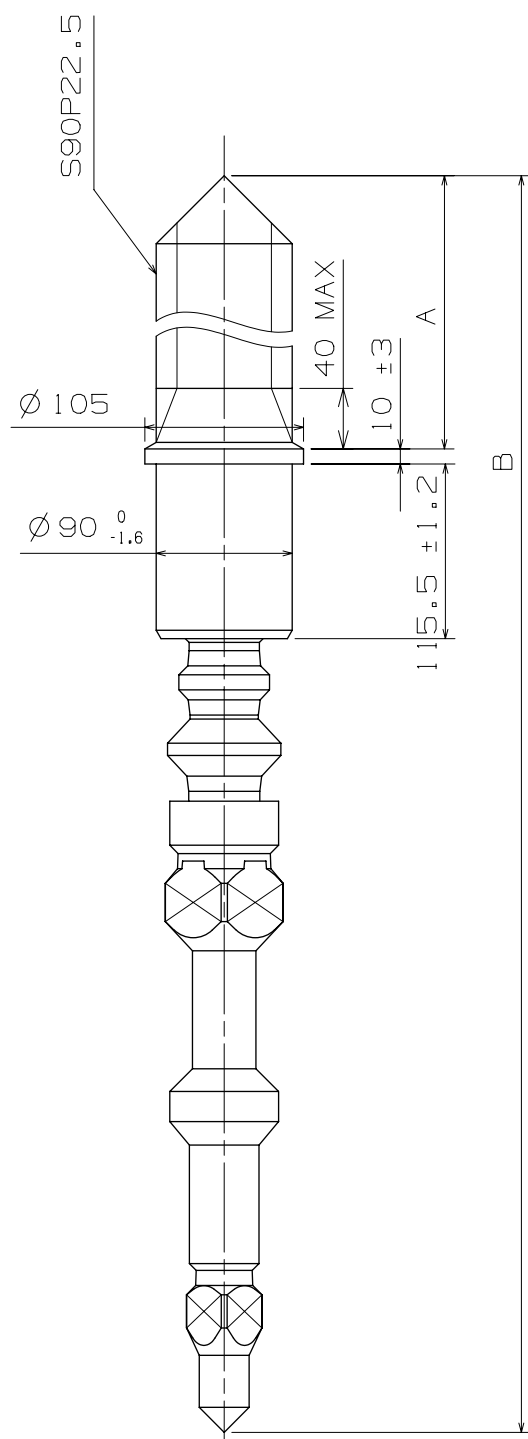


	A	B	C	D	E	F	G	H	t1	t2	t3	d
TYPE M 一般針高	45	90	120	40	35	15	30	30	15	15	15	∅ 2500MAX

Scale : 25/1

Unit : 1=1/100mm

Version:1



Part.No.	A	B
0351 0010	1595	2245.5

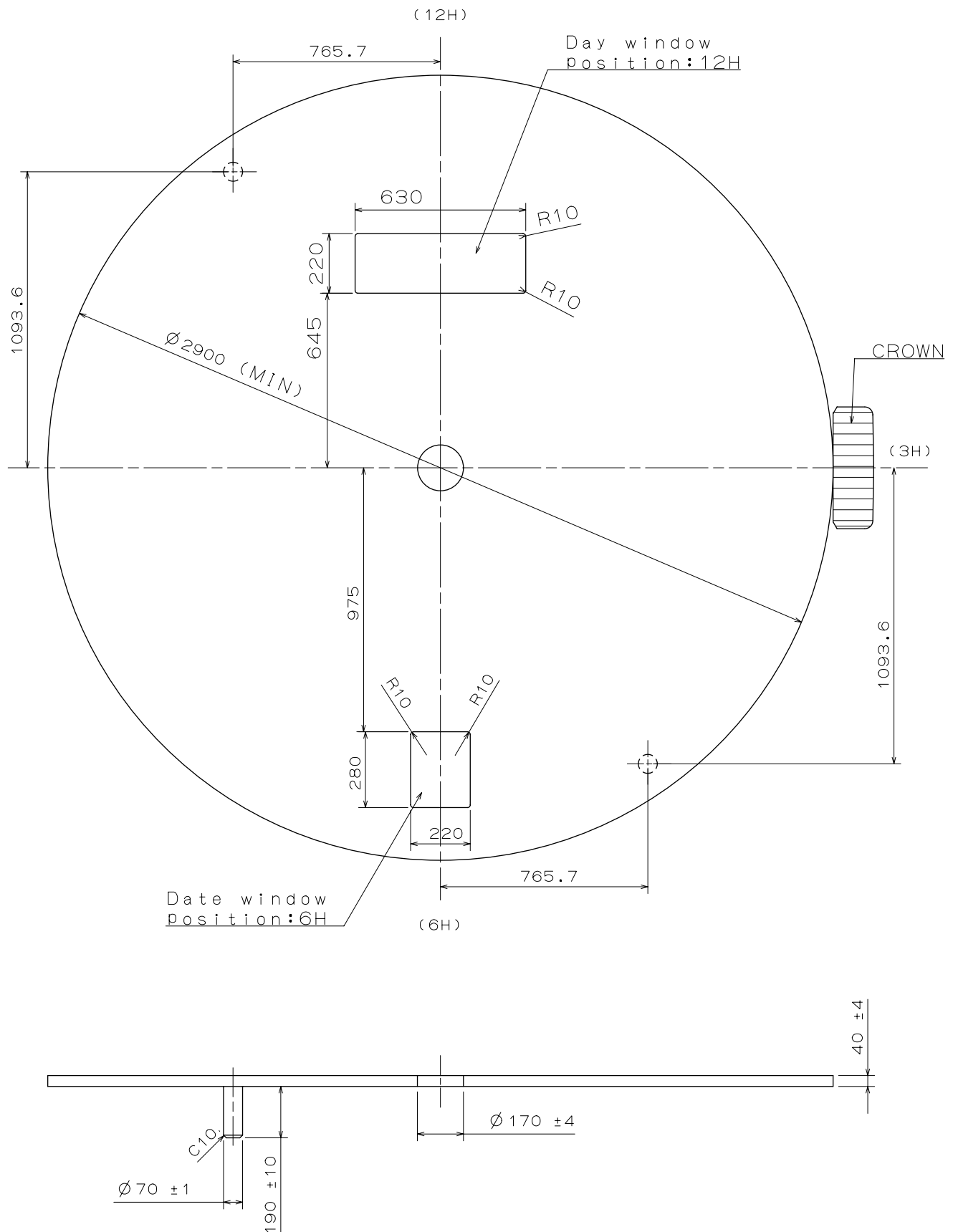
Scale : 20/1

Unit : 1=1/100mm

Version:3

Dial-3

Cal. VJ53A/B



Scale : 5/1

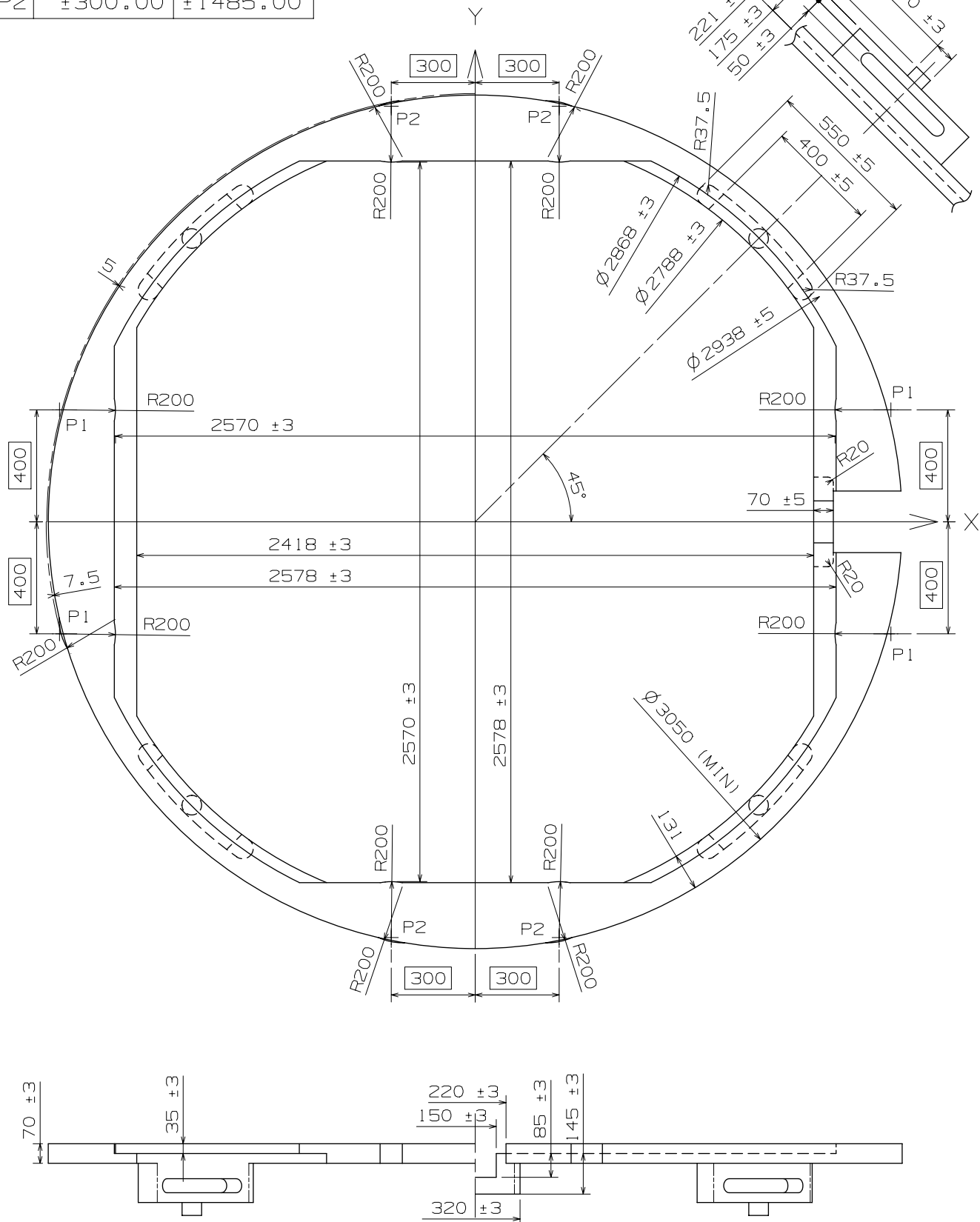
Unit : 1=1/100mm

Version:3

Casing Ring

Cal. VJ53A/B

	X	Y
P1	± 1485.00	± 400.00
P2	± 300.00	± 1485.00



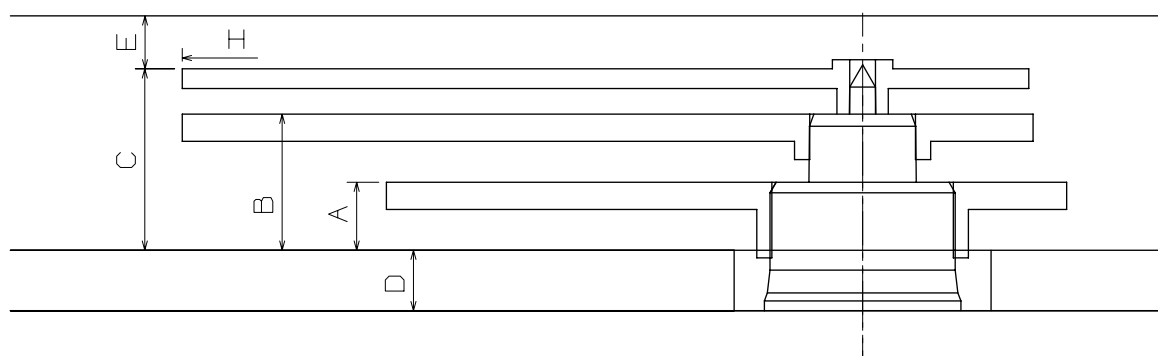
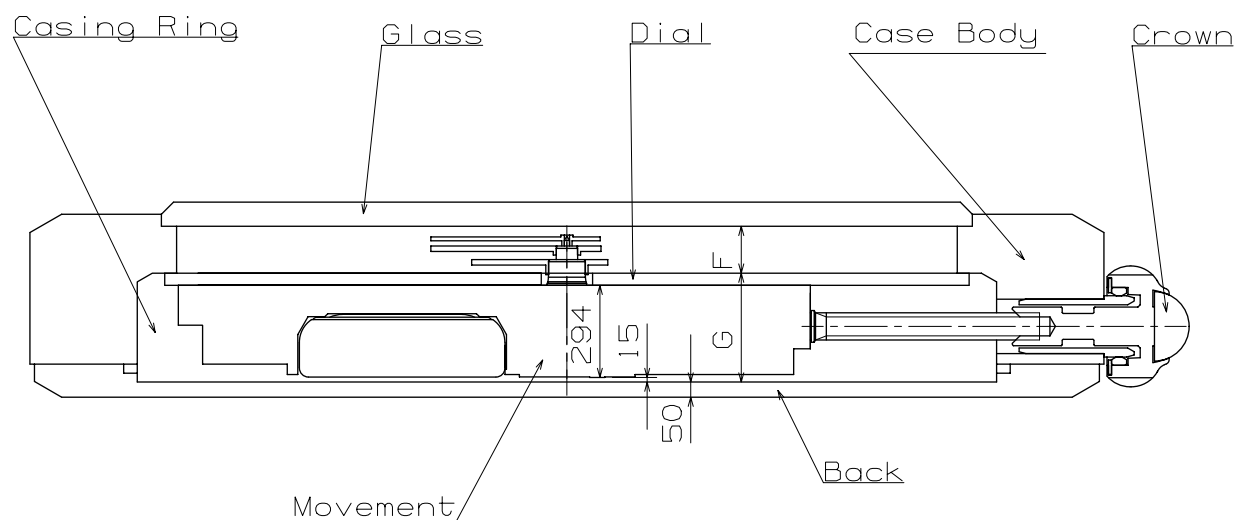
Scale : 5/1

Unit : 1=1/100mm

Version:2

Assembly Plan

Cal. VJ53A/B



	A	B	C	D	E	F	G	H
TYPE M	45	90	120	40	35	155	349	Ø 2500MAX

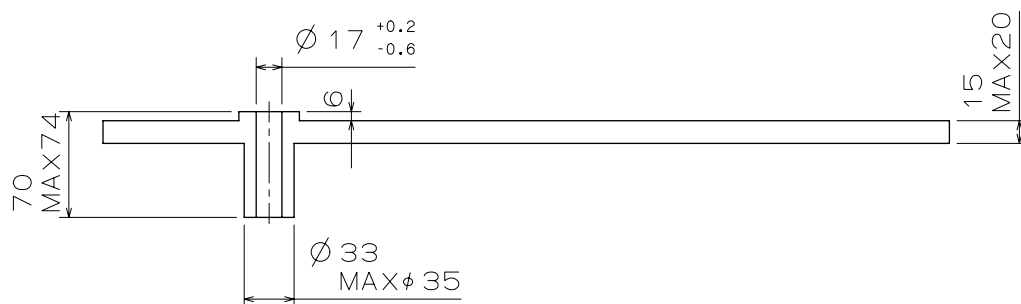
Scale : -
Unit : 1=1/100mm

Version:2

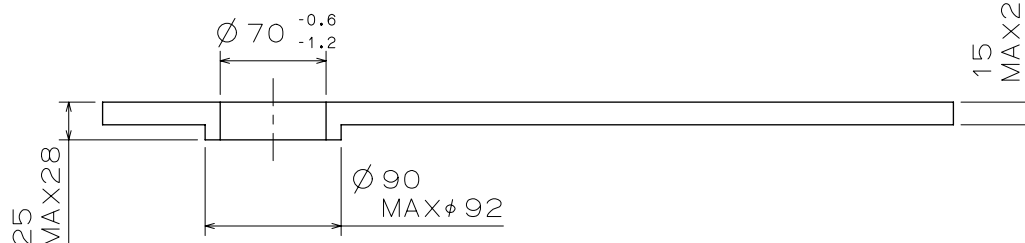
Hands

Cal. VJ53A/B

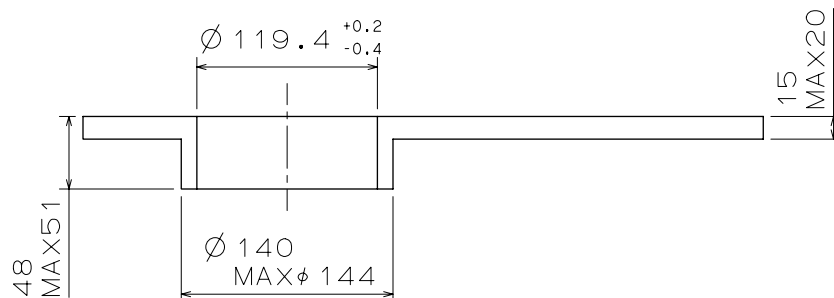
SECOND



MINUTE



HOUR



Scale : 20/1
Unit : 1=1/100mm

Version:2