

Watch Movement Specification and Drawing

STANDARD

Cal. AL21E

Movement Size

6 3/4 × 8'''

Casing Diameter

15.3 × 17.8 mm

Height

2.99mm

Battery Life

2 years

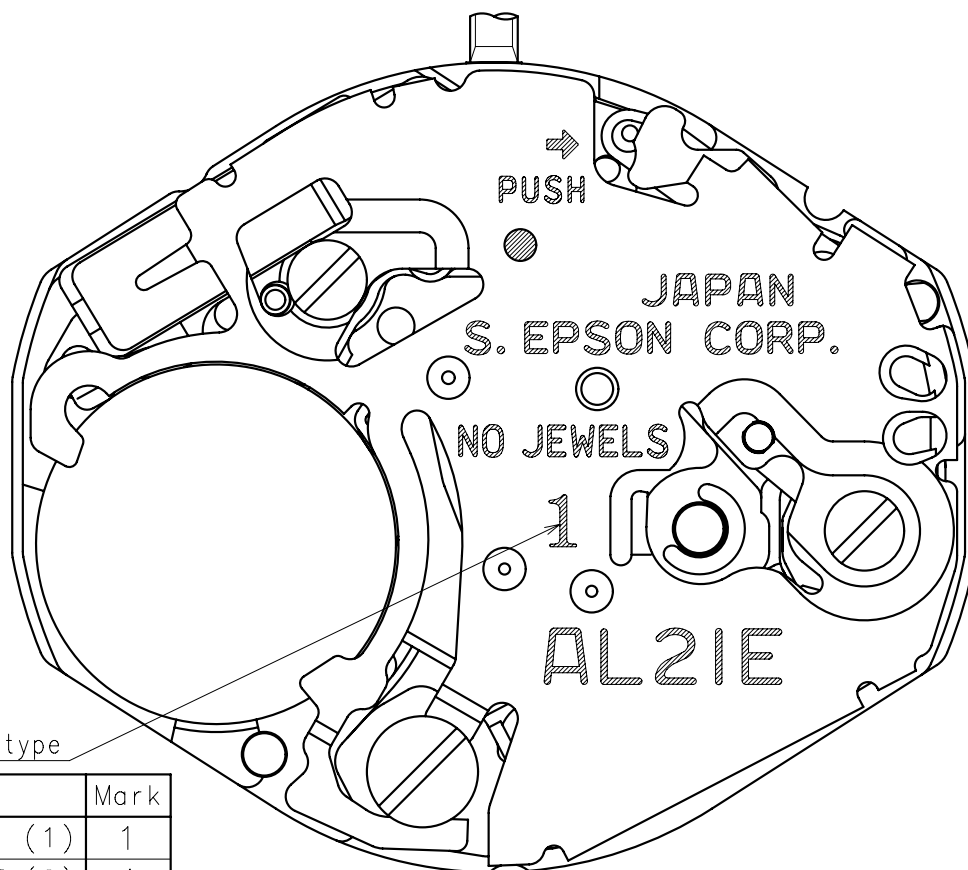


Date: 7/Aug./'20

Cal. AL21E

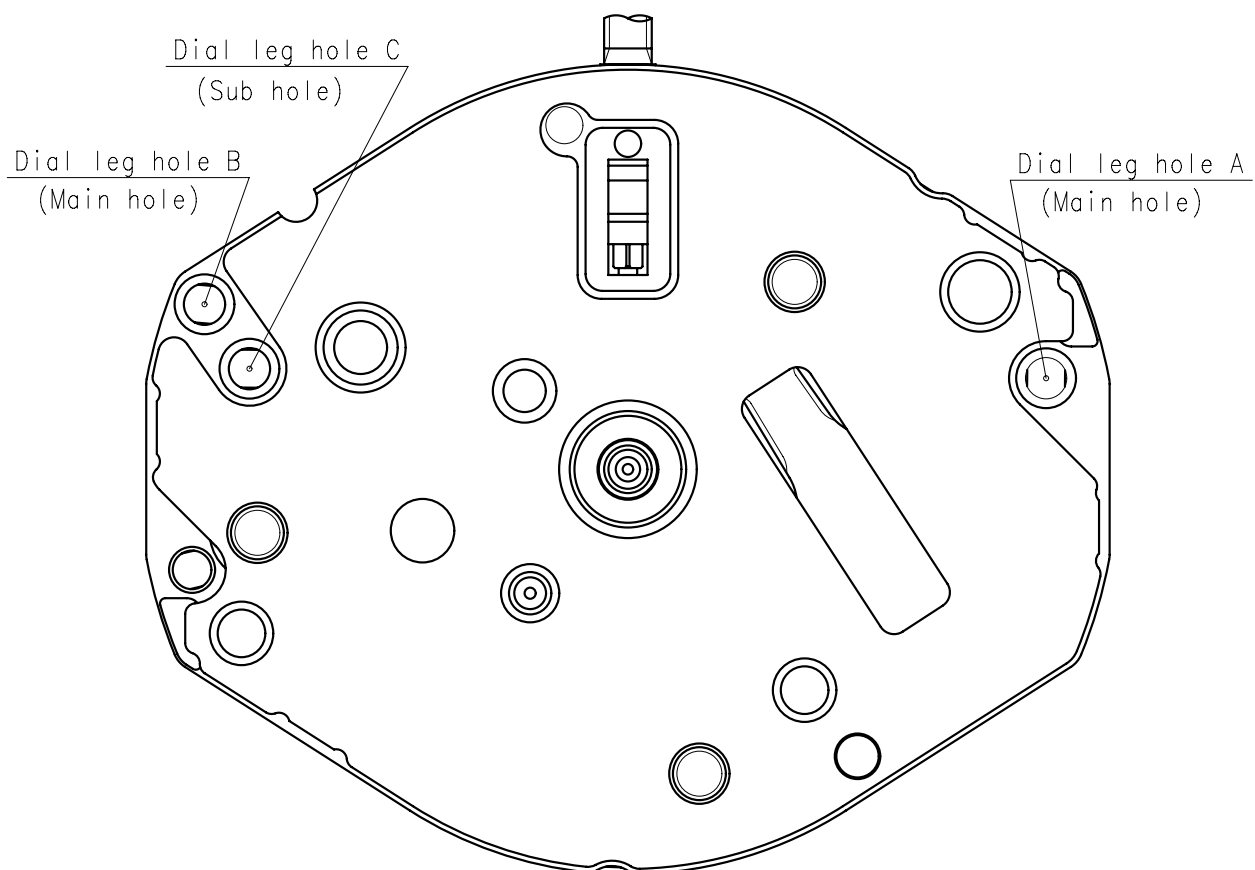
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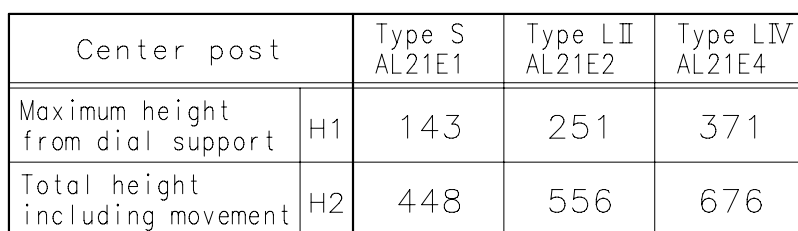
Cal.	AL21E	Specifications Date : 7/Aug./'20 Rev. : 04
Analog Quartz 6 3/4 × 8''' Standard Series Movement / Three Hands (H/M/S) 1. MOVEMENT DIMENSIONS Outside diameter 15.30mm(3-9H) × 18.20mm(12-6H) Casing diameter 15.30mm(3-9H) × 17.80mm(12-6H) Total height 2.99mm 2. TIME STANDARD Type of quartz oscillator 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 Second hand : 0.06 μ N·m Minute hand : 0.6 μ N·m Hour hand : 0.5 μ N·m 5. BATTERY Type / Size Silver oxide battery / φ 6.8mm × t 2.6mm Recommended battery SR626SW (Maxell, Murata, Seizaiken) Nominal voltage 1.55 V Battery life Approx. 2 years Driving current consumption Approx. 1.5 μ A Operation stopping voltage 1.1 V 6. SEPARATED PARTS (Parts code) Hand setting stem 0354788 : AL21E1, AL21E2 0354787 : AL21E4 Battery SR626SW 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.		



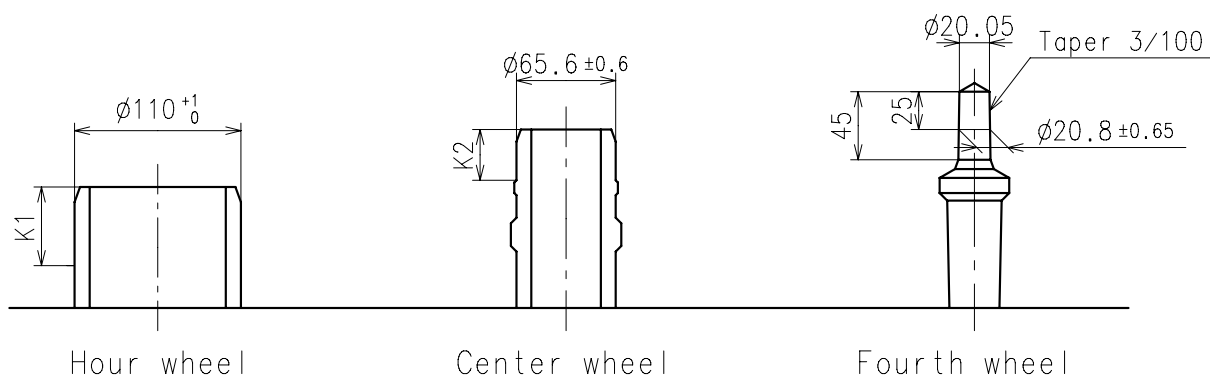
Hands type

	Mark
Type S (1)	1
Type L II (2)	4
Type LIV	7

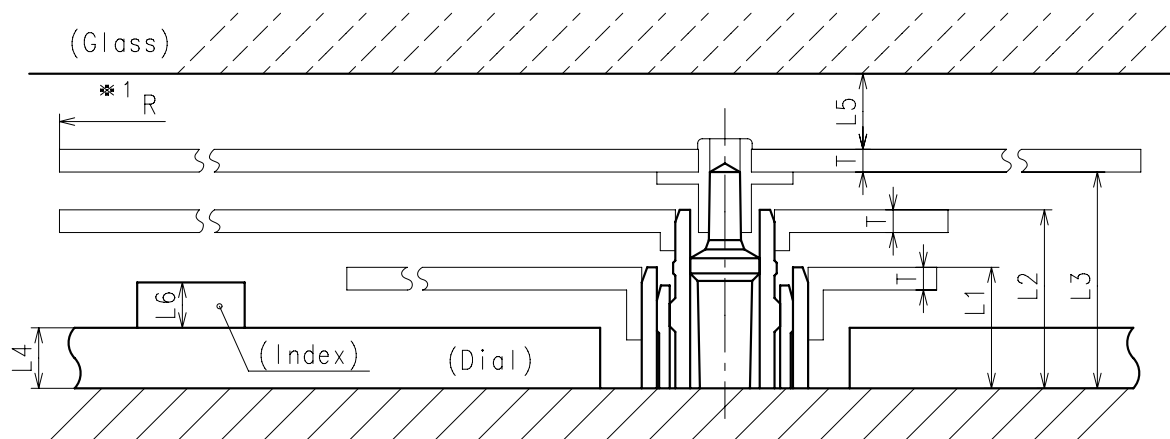




- * Second hand unbalance $\leq 0.06\mu \text{ N} \cdot \text{m}$ ($6\mu \text{ g} \cdot \text{m}$)
- * Minute hand unbalance $\leq 0.6\mu \text{ N} \cdot \text{m}$ ($60\mu \text{ g} \cdot \text{m}$)
- * Hour hand unbalance $\leq 0.5\mu \text{ N} \cdot \text{m}$ ($50\mu \text{ g} \cdot \text{m}$)

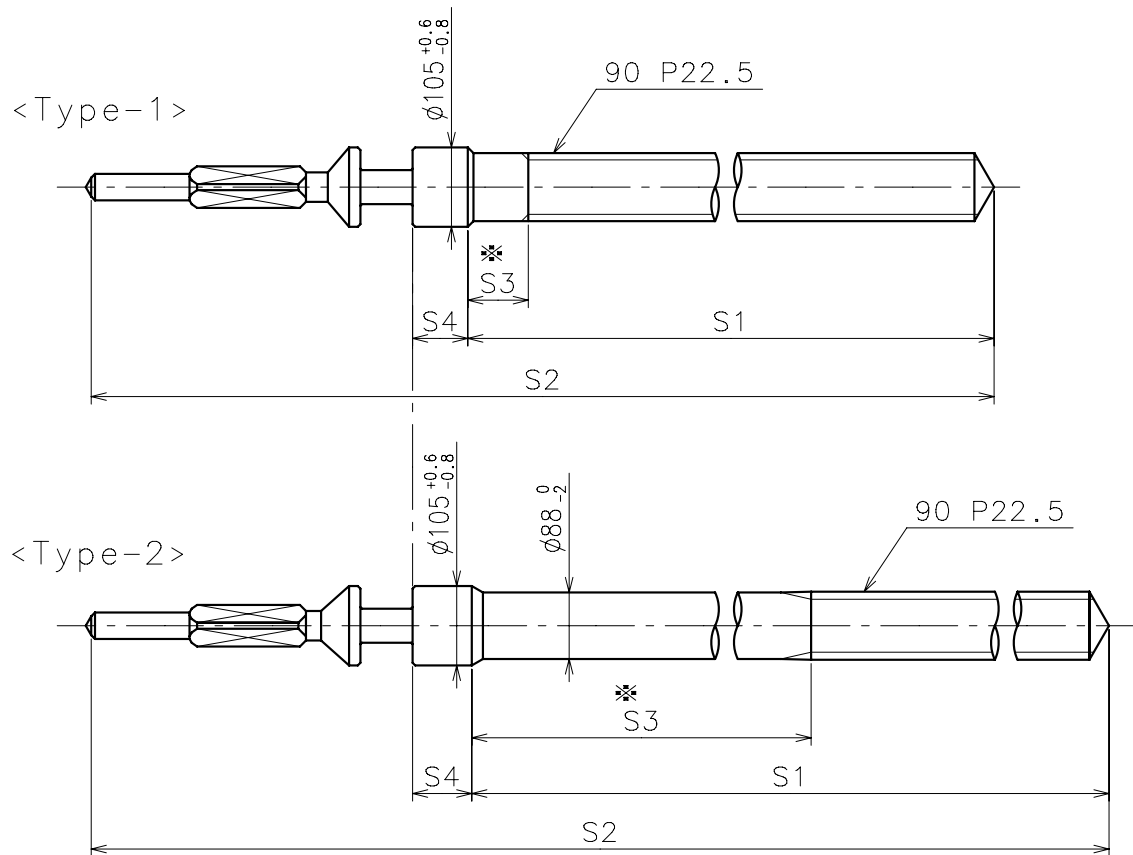


	Parts No.			Dimension	
	Hour wheel	Center wheel	Fourth wheel	K1	K2
Type S AL21E1	0271796	0221797	0241798	52	33.5
Type LII AL21E2	0271797	0221779	0241777	60	33.5
Type LIV AL21E4	0271756	0221765	0241756	60	33.5



	L1	L2	L3	L4	L5	L6	T	*1 R
Type S AL21E1	80	118	143	40	MIN: 50	MAX: 30	15	MAX: 1250
Type LII AL21E2	185	226	251	MAX: 150	MIN: 50	MAX: 30	15	MAX: 1250
Type LIV AL21E4	297	343	371	MAX: 250	MIN: 50	MAX: 45	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.

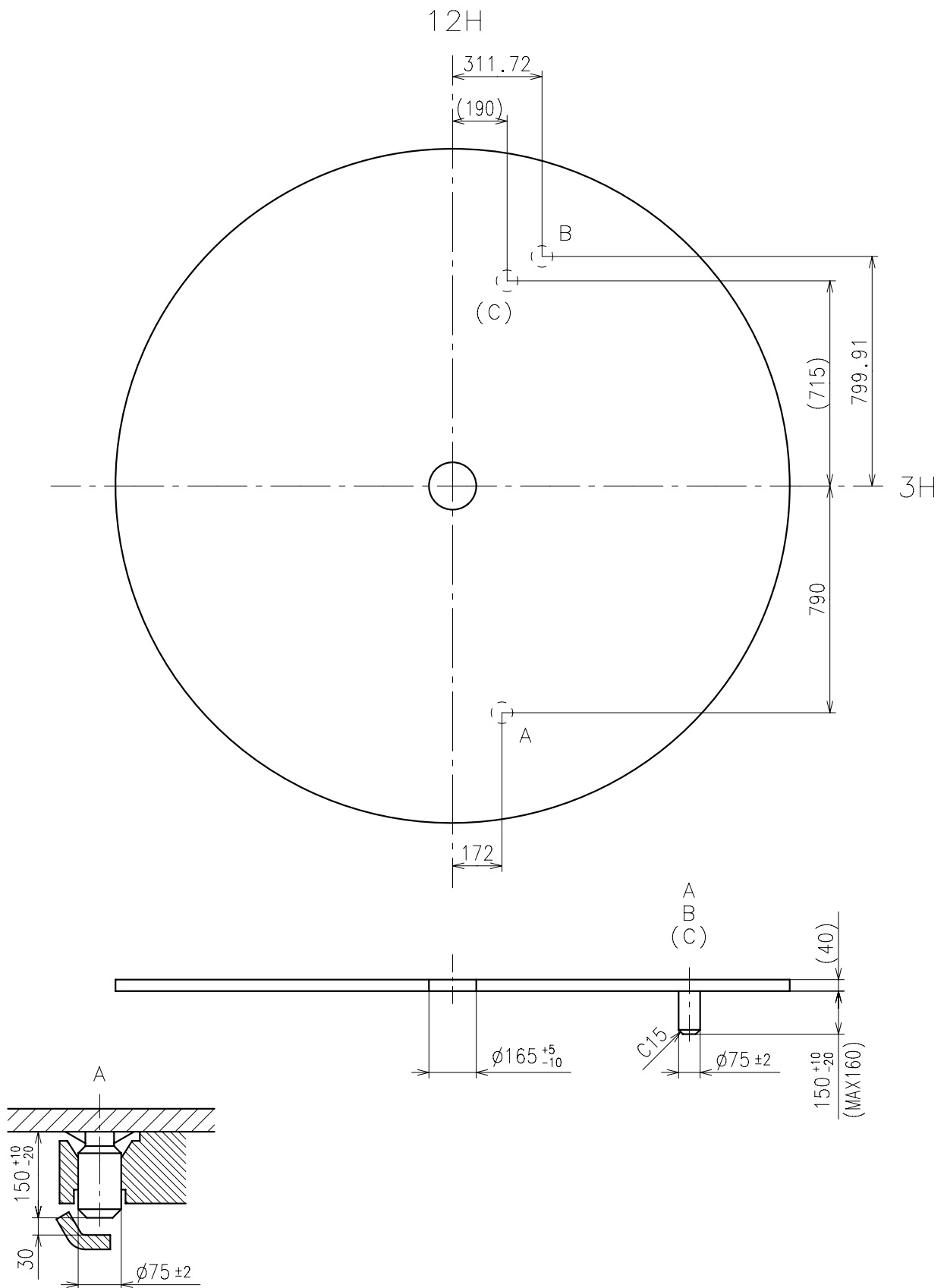


※ Not threaded

	Part No.	S1	S2	※ S3	S4
Type-1 (Standard)	0354788	1473	1971	80	73
Type-2	0354787	1743	2246	887	78

Material : Steel

Hardness : Vickers 530±50



Use dial leg A-B(Main) or A-C(Sub)

