

Cal. YT58B

 ϕ 27.0 mm H 4.89 mm

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Date: 15/May/'07

S.EPSON Products

MOVEMENT SPECIFICATIONS

CAL. YT58B

AGS-Automatic Generating System 12" Size Movement / Three Hands (H/M/S)

day / date

1. MOVEMENT DIMENSIONS

*Outside diameter ϕ 27.6mm *Casing diameter ϕ 27.0mm *Total height 4.89mm

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

*Day / Date Instant setting device for day / date calendar

*Reset switch

*Automatic generating system Quick-start function

*Power saving function Crown pulled out with 2nd click:

For 4 – 5 years in storage with full charge

(It depends on the conditions)

*Power depletion warning function

(Second hand moves at 2-second intervals when voltage is 1.2 ±0.1V)
*Setting mechanism Crown at normal position: Free

Crown pulled out 1st click

Instant day / date change

Crown pulled out 2nd click:

Time setting / Reset / Power saving

*Working time Approx. 6 months (After fully charged)

4. FEATURES

*Jewels 6 Jewel

*Anti-magnetism Over 1600A/m (Direct current magnetic field)

*Maximum unbalance of hands Second hand: 3 mg·mm

Minute hand: 70 mg mm Approx. 0.57µA (1.4V)

*Driving current consumption Approx. 0.57µ

*Operation stopping voltage 0.45 V

5. POWER SUPPLY

*Type / Size Titanium-lithium-ion second battery

 ϕ 9.5 \times t 2.0 mm

*Capacity 4.0mAh *Nominal voltage 1.5V

6. SEPARATED PARTS (Parts code)

*Hand setting stem 0351652 *Holding ring for dial 0866780

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

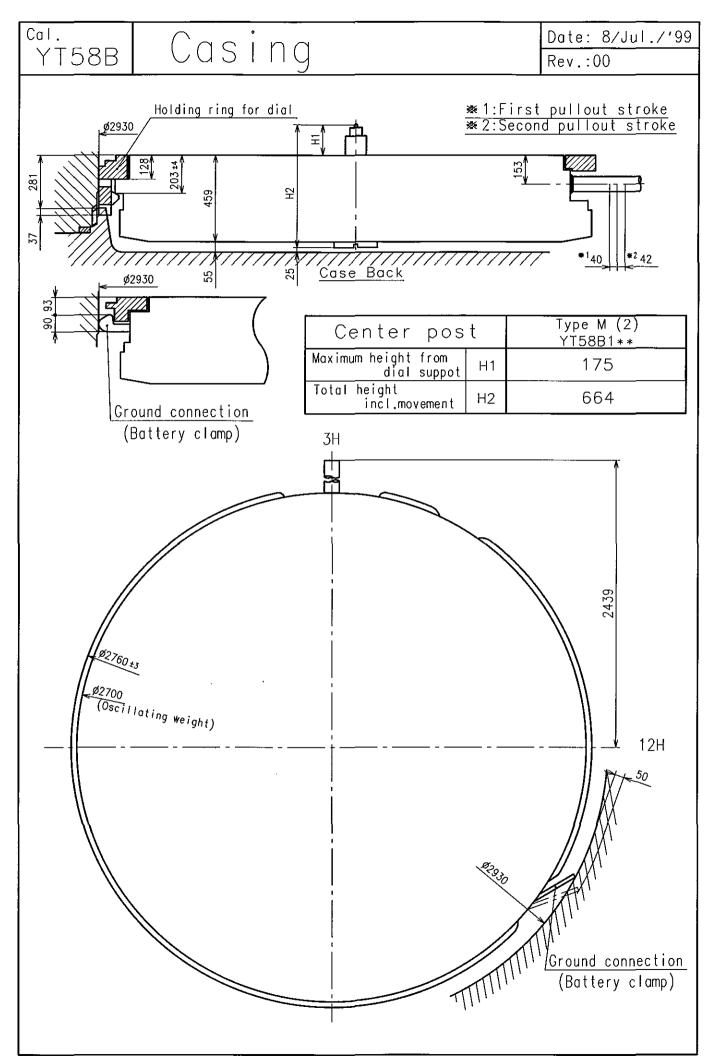
*Microphone to be used Electromagnetic detection type

Cal. Date: 8/Jul./'99 Appearance YT58B Rev.:00 Coil block Oscillating weight Circuit block cover Hands type Mark Rechargeable battery unit Type(M) 2 Battery clamp Dial leg hole A Date dial SUN

★: Combination of dial leg hole A-B

Day star with dial disc

Dial leg hole B



Unit: 1=1/100mm

P. 3

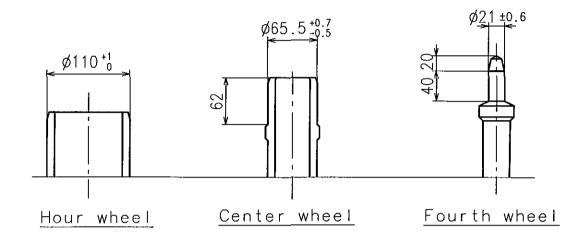
Cal. YT58B

Hand fitting

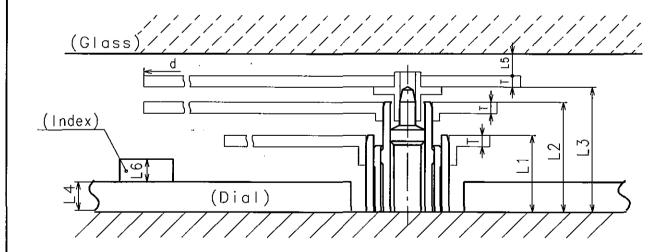
Date: 8/Oct./′99

Rev.:01

- *Minute hand unbalance $\leq 70 \mu \text{ g} \cdot \text{m} (0.7 \mu \text{N} \cdot \text{m})$
- ** Second hand unbalance $\leq 3 \mu \text{ g} \cdot \text{m} (0.03 \mu \text{ N} \cdot \text{m})$



	Parts No.			
	Hour wheel	Center wheel	Fourth wheel	
Type M (2) YT58B1**	0271670	0221676	0241670	



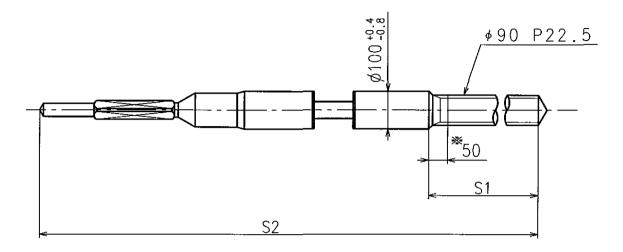
	L1	L2	L3	L 4	L5	L6	Τ	d
Type M (2) YT58B1**	102	146	166	40	мін: 50	MAX: 50	15	мах: Ø2500

Unit: 1=1/100mm

Tisse Hand setting stem

Date:24/Feb./'00

Rev.:01



≫ Not threaded

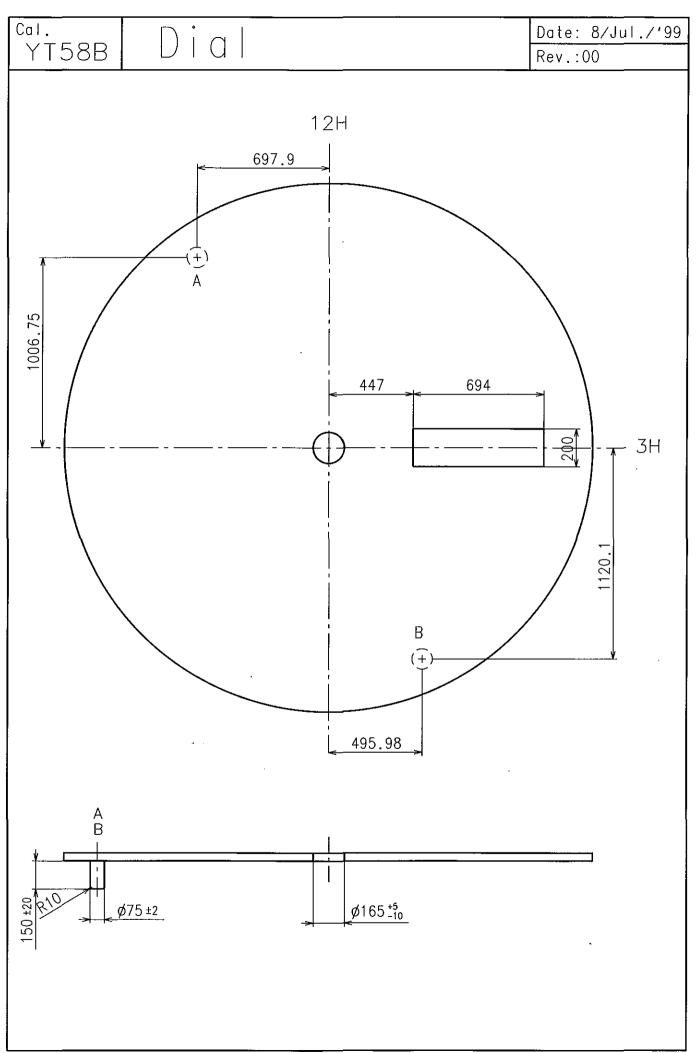
:	Part No.	S1	S2
Standard	0351652	1109	2220

Material : Steel

Hardness: Vickers 550±50

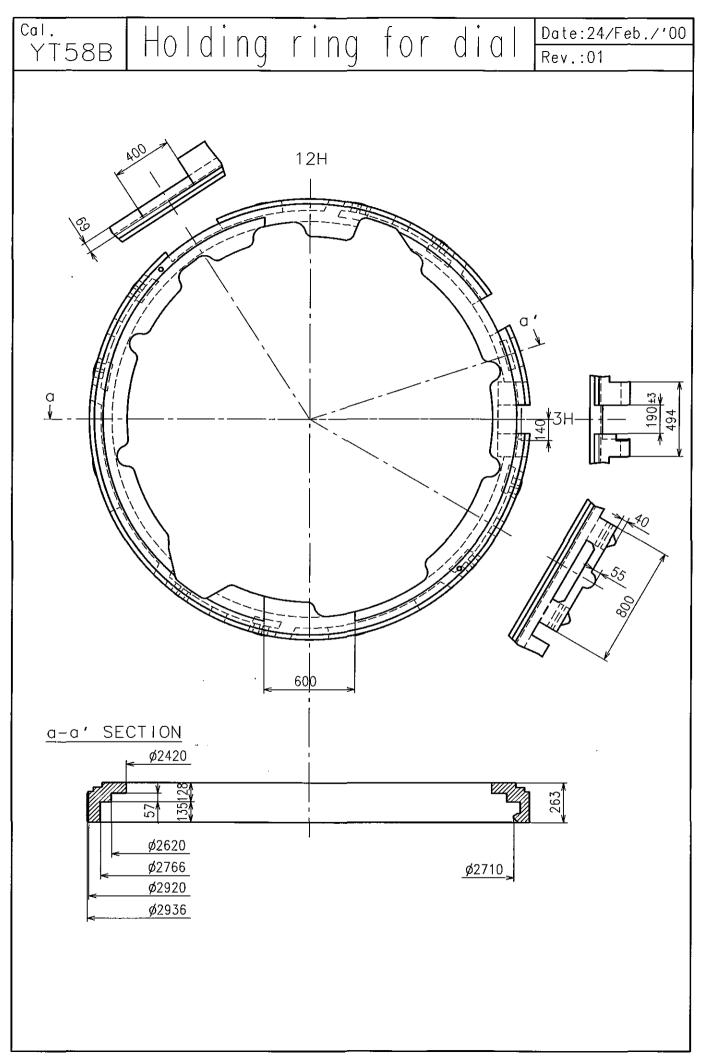
Unit: 1=1/100mm

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Unit : 1=1/100mm

P. 6



Unit : 1=1/100mm

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Cal. YT58B

Attention to use

Date: 8/JUL./'99

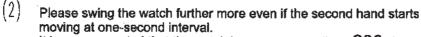
Rev.: 00

1. When you start to use the stoped watch

(1) Swing the watch from side to side rhythmically as shown in the illustration.

The second hand starts moving at two-second interval after several swinging of the watch.

However, it is still lack of energy.



It is recommended that the watch be swung more than 200 times.

(*) This is the general guideline, because it depends on the strength of swinging.

- (3) At that stage, there will be about 1 day of power reserve available.
- (4) Before using the watch, please set the time and calendar.

2. How to restart the watch which has been left unused for a long time

The capacitor continues to discharge and the voltage decrease ever after the watch has stopped.

In order to restart the watch which has been left for a long time since the watch had stopped, it may be necessary to swing the watch more than the general guidelines above.

The watch which has been left for (A) since the watch had stopped, requires (B) swings.

(A) (B)
1 year => more 100 times
more than 2 years => more 400 times

It is not necessary to swing the watch further more if the watch has been left unused more than 3 months.

3. Power depletion warning function (BLD)

When the voltage falls to a certain level, the second hand moves at two-second interval. If you find the second hand moving at two-second interval while the watch is in use or while it has been left unused, the watch may run down soon. Please be sure to swing the watch and recharge the battery.

Continuance time under the BLD watho condition Min. 12 hours (Max. 24 hours)

<Note>

If the watch is swung extremely quickly with vigor, it may run down in 12 hours.

YT58B Attention of casing part structure

Date: 15/May/'07

Rev.: 00

Transparency case back glass

Direct sunlight increase battery consumption and lower the duration or cause difficulty in charging battery.

In order to prevent the above situations, we recommend following two things for transparency case back glass.

- 1) The glass diameter size is maximum 19mm (Refer to picture)
- 2) Blue or brown glass

