

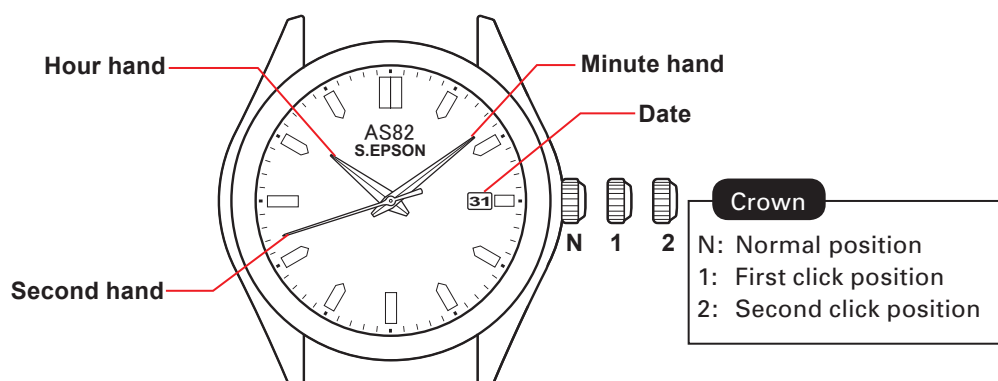
CAL.AS82

3 HANDS / DATE

1/6 Instructions

Features

- ◆ Hour, minute and second hands
- ◆ Date



Movement size	6 3/4 - 8 ^{mm}
Outside Diameter	16.30 mm (3H-9H) x 18.20 mm(12H-6H)
Casing Diameter	15.30 mm (3H-9H) x 17.80 mm(12H-6H)
Height	4.21 mm

- ◆ Timing of date change

The date moves to the next between 11:00 p.m. and 12:00 a.m.



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How to charge and start the watch

◆ TO CHARGE THE WATCH

- When you start the watch or when the energy in the rechargeable battery is reduced to an extremely low level, charge it sufficiently by exposing the watch to light.

◆ NOTE

- It is not necessary to charge the watch fully. It is important, however, to charge the watch sufficiently, especially in case of initial charge.

◆ CAUTION

Care in charging

- When charging the watch, do not place it too close to a hot light source such as a photoflash light, spotlight or incandescent light as this can greatly raise the watch temperature.
- When charging the watch by sunlight, do not leave it exposed to the sun for a long time, on the dashboard of a car, etc.. as this can greatly raise the watch temperature.
- Make sure the watch temperature does not exceed 50°C while charging, to avoid damage to the parts inside.

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Guidelines For Charging Time

(Dial transparency is 30%)

			Time required (approx.)		
Illumination (Lux)	Light source	Environment	A (Hours)	B☆ (Hours)	C (Minutes)
700	Fluorescent lamp	Inside office	-	35	100
3,000		30W 20 cm	60	4	25
10,000	Sunlight	Cloudy	20	1.5	8
100,000		Fine weather	5	15 minutes	2

<Reference> The illuminance of 1,000 Lx is 70cm under from 30W fluorescent lamp.

Condition A: Time required for full charge

Condition B: Time required for steady operation

Condition C: Time required for 1 day's charge

☆ The values in this column represent the charging times required until the second hand moves constantly at 1-second intervals after the watch starts operating with the second hand moving at 2-second intervals.

Even if the watch is not charged for the time specified in the column, the second hand may temporarily move at 1-second intervals. But it will soon resume moving at 2-second intervals, and therefore, charge the watch for more than the specified period.

The above table provides only general guidelines.

When the watch is fully charged, it will continue to operate for about 4 months.



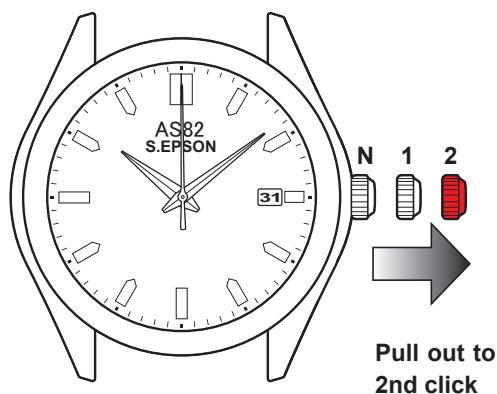
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3 HANDS / DATE

4/6 Instructions

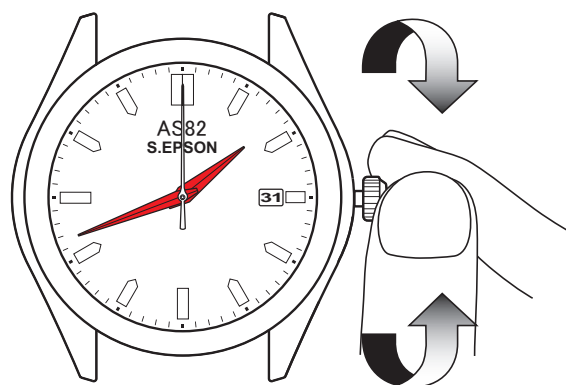
How to set time

①



- Pull the crown out to the 2nd click position when the second hand is at the 12 o'clock position.

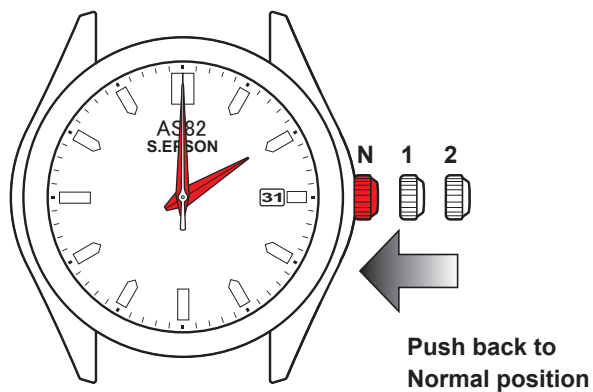
②



- Turn the crown to set the hour and minute hands.
- Take AM/PM into consideration when setting the hour and minute hands to the desired time.

Note: When setting the minute hand, advance it 4 to 5 minutes ahead of the desired time and then turn it back to the exact minute(s).

③



- Push the crown back to the normal position.
Confirm that the second hand begins to run.



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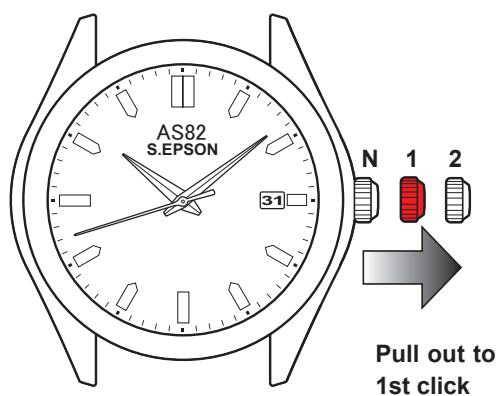
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3 HANDS / DATE

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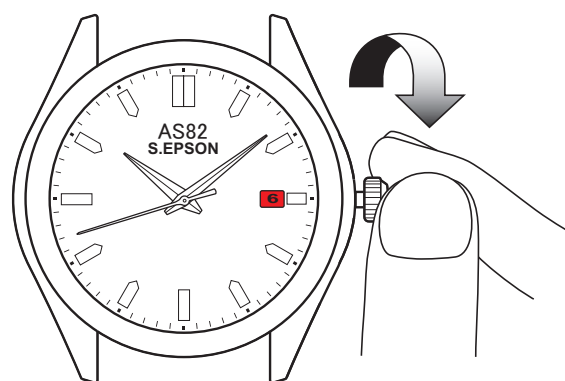
How to set date

①



- Pull the crown out to the 1st click position.

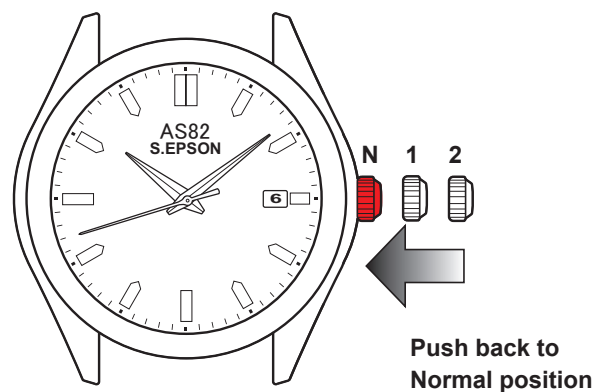
②



- Turn the crown to set the date.

Note: Do not set the date between 9:00 P.M. and 1:00 A.M.

③



- Push the crown back to the normal position.



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Note

◆ Energy depletion forewarning function

- When the energy stored in the rechargeable battery is reduced to an extremely low level, the second hand starts moving at 2-second intervals instead of the normal 1-second intervals.
- In that case, recharge the watch as soon as possible by exposing it to light. Otherwise, the watch may stop operating in about 1 day.

◆ To prevent the energy depletion

- When you wear the watch, try not to keep it covered by your clothes.
- When the watch is not in use, leave it in a bright place as long as possible.
 - * Make sure that the watch temperature does not exceed 50°C.

◆ Notes on power supply

- This watch is provided with a rechargeable battery for exclusive use with the watch. Unlike conventional battery-powered watches, therefore, battery replacement is not necessary.
- The solar cell is a clean energy source, having no adverse effect on the natural environment.

◆ Caution

- Never insert a conventional silver oxide battery in your watch as it may explode, generate an intense heat or catch fire. The watch is designed not to operate even if the battery is installed in it.



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