

Reference 5531

Planisphère



*Calatrava minute repeater and World Time wristwatch
with dial in champlévé enamel and hand-engraving*

This limited edition of ten watches in white gold depicting a map of the world evokes the beauty of the continental plates and the complexity of the geological structures that shape the ocean floor. The engraver first shaped the ocean depths by hand, which were then coated with translucent blue enamel, using the traditional technique of *champlévé* enameling. The enameller later rendered the effect of the mid-ocean ridges and the oceanic trenches, working with transparent enamels in 3 colors. This enamelwork required from 10 to 15 firings at a temperature of approximately 780°C. After these successive firings, the engraver added his finishing touch to produce his interpretation of the reliefs of the continental plates. The white-gold case is adorned with the famous

Clous de Paris or hobnail pattern emblematic of the Patek Philippe style. A skeletonized hand in white gold, its shape inspired by the Southern Cross constellation, points to the hour, while the minute hand, also in white gold, presents a lozenge-shaped outline. The taurillon calfskin strap in golden brown is secured by a folding clasp in white gold adorned with a Calatrava cross. This watch houses a caliber R 27 HU self-winding movement combining a minute repeater and a World Time mechanism. The architecture and the painstaking finishing touches lavished on this Grand Complication movement may be admired through a sapphire crystal back (interchangeable with a solid back in white gold).

The minute repeater

On demand, the minute repeater strikes the hours, the quarter-hours, and then the minutes that have elapsed since the last quarter-hour. The first hammer strikes the hours on the low-pitched gong with one strike for each hour. Subsequently, each quarter-hour is sounded as an alternating double strike by two hammers on both the high and low-pitched gongs. Finally, the second hammer strikes the high-pitched gong to count the number of minutes that have passed since the last quarter-hour.

At 12:59, for instance, the melody consists of 12 low sounds, 3 double high/low sounds, and 14 high sounds (totaling the maximum of 32 strikes).

The World Time

The legendary World Time watch, launched in the 1930s, simultaneously and continuously displays the time in all 24 time zones. A cult object beloved of seasoned travelers and collectors of fine mechanical devices, it took another step forward in terms of functionality in 1999. Since then, a unique mechanism enables its owner, when changing time zones, to correct

all the displays collectively by pressing a single pusher, without affecting the rate accuracy of the movement. This patented system is exclusive to Patek Philippe.

Hand-engraving

Burins, chisels, and other pointed metal tools with wooden handles are ancient instruments that have been used to decorate timepieces for hundreds of years. Guided by the hands of an expert, they can carve stunningly lifelike scenes into a pocket watch case, blending sharp contours into gentle reliefs that dance in the light. The same tools can dramatically embellish the dainty architecture of a skeletonized movement with elegant arabesques and volutes. The highly specialized craft, which requires considerable artistic panache and dexterity, is mastered only by an elite, whose ranks are sadly depleted. In 1789, nearly two hundred engravers were registered in Geneva. Today, the roster has dwindled to perhaps a dozen experts.



Instructions

WINDING CROWN

The winding crown is used to wind the watch (position 1) and to set the time (position 2).

WINDING

When it is on your wrist, your watch is wound automatically by your arm movements. When fully wound and off the wrist, your watch has a power reserve of at least 43 hours. If your watch stopped because you set it aside for an extended period of time, you can wind it by hand until the movement restarts (about 20 clockwise turns of the crown).

Caution: we advise you to wind the watch before you put it on. This way, you can avoid lateral pressure on the winding stem which, in the course of the years, could damage the stem tube. The same applies to handsetting. Please use your fingernails to pull the crown out and turn it gently between two fingertips.

SETTING THE TIME

To set the correct time, proceed as follows:

1. Press the pusher at 2 o'clock repeatedly until the city name that corresponds to your time zone is at 12 o'clock.
2. Pull the crown out slightly and move it clockwise or counterclockwise until the hour indication on the ring at the 12 o'clock position coincides with the local time (in 24-hour notation) and the minute hand shows the right time as well. Push the crown home again.

After this setting, the time and the city on the 24-hour ring indicated by the arrow at 12 o'clock corresponds to the time displayed by the hands.

Caution: Please set the time before you put the watch on. This prevents lateral pressure on the winding stem. Please use your fingernails to pull the crown out and turn it gently between two fingertips.

SWITCHING THE TIME ZONES

To switch the time zone, you merely need to press the pusher at 2 o'clock repeatedly until the city which represents the destination time zone is at 12 o'clock. Three movements take place each time you press the pusher: the hour hand advances by one hour, and the city ring and the 24-hour ring both advance counterclockwise by one position. The minute hand is not affected by a time zone change and continues to advance independently.

Caution: Please fully release the time-zone pusher before you press it again.

As long as you do not travel to a different time zone, the city ring will remain stationary. However, the 24-hour ring will continuously move counterclockwise because it is coupled with the movement. By means of the city ring and the 24-hour ring, you can read the current time in all of the world's 24 time zones whenever you wish.

MINUTE REPEATER

The strike sequence of the minute repeater must be allowed to end completely before it is activated again.

Caution: never actuate the winding crown as long as the repeater is working and for 30 seconds thereafter. Doing so could cause damage to the repeating mechanism which would not be covered by the warranty.

To activate the striking mechanism, push the slide all the way up.

Now release it completely – do not pull it down.

Two small hammers will now strike the hours, quarter-hours, and minutes on two gongs of low and high pitch. If the watch was set aside unwound for an extended period of time, the minute repeater might not indicate the correct time because the oil may have thickened at some points inside the mechanism. This is absolutely normal and has no negative consequences. The striking mechanism will function correctly again within one or two hours after the watch has been rewound.

Caution: As soon as the minute repeater is actuated with the slide in the left-hand case flank, the World Time mechanism is blocked so that for the duration of the time strike no time zone adjustments can take place.

Recommendations

WATER RESISTANCE

Although your watch is equipped with a water-resistant crown, it is not protected at all against the ingress of moisture because of the slot for the minute repeater slide.

Therefore, exercise care to ensure that liquid does not come into contact with your watch.

SERVICE

We recommend that you have your watch serviced every 8 to 10 years. For this purpose, we suggest you take it to an Authorized Patek Philippe Retailer who will send it to our Geneva manufacture, the only location authorized to service watches with minute repeaters. You can then be assured that your watch will be inspected and overhauled by a qualified master watchmaker at Patek Philippe headquarters in Geneva.

The master watchmaker will completely disassemble the movement and then inspect, clean, and lubricate all the individual parts prior to reassembly. All functions of the watch will also be tested in detail and the escapement regulated if necessary. Finally, its rate accuracy will be monitored and precision-adjusted for a further period of at least two weeks.

The case and the buckle will be polished as per your instructions and your watch will be returned to you in mint condition. The entire process will take several weeks because each watch must undergo a complete series of tests to fulfill the strict quality criteria of Patek Philippe.

If you have any questions regarding the maintenance of your watch, contact the Authorized Patek Philippe Retailer nearest to you or our International Customer Service department in Geneva, or visit www.patek.com.

WINDING

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CHANGING THE CASE BACK

Your watch comes with a sapphire-crystal case back and a separate interchangeable solid metal back. Only qualified master watchmakers at the Patek Philippe workshops in Geneva are authorized to exchange the backs.

PATEK PHILIPPE SEAL

The Patek Philippe Seal is a global emblem of quality that applies to the completed and fully cased watch. It covers the movement, the case, the dial, the hands, the pushers, the straps and bracelets, the clasps, as well as all other components that contribute to the accuracy and aesthetic appeal of a watch. It takes technical, functional, and design-related aspects into account and also covers the visual appearance of the watch, its rate accuracy and dependability, as well as the quality of the customer service to which its owner is entitled. It encompasses the entire know-how and the unique facets that govern the development, production, and long-term maintenance of an exceptional timepiece.

Movement technical data



CALIBER:	R 27 HU
DIAMETER:	32 MM
HEIGHT:	8.5 MM
NUMBER OF PARTS:	452
NUMBER OF JEWELS:	45
POWER RESERVE:	MIN. 43 HOURS - MAX. 48 HOURS
WINDING ROTOR:	GUILLOCHED 22K GOLD MINIROTOR, UNIDIRECTIONAL WINDING
BALANCE:	GYROMAX®
FREQUENCY:	21,600 SEMI-OSCILLATIONS PER HOUR (3 HZ)
BALANCE SPRING:	SPIROMAX®
HALLMARK:	PATEK PHILIPPE SEAL