

F.P.JOURNE
Invenit et Fecit

User manual / Octa Automatique Réserve - Ref. AR2

A unique design based on an exclusive mechanism

Calibre Octa
A Horological Ideal_

The construction of the Octa calibre has less powerful ties with the history of horology than the constant-force device or resonance models do. Nevertheless, it symbolizes a horological ideal: giving timekeepers the highest possible degree of precision and autonomy.

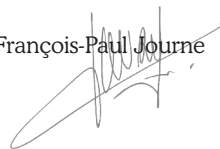
It can be observed, that if church clocks were set so high in towers, apart from enhancing visibility, was mostly because it often took an entire month for the driving weights to drop the length of their cords. Numerous systems were invented to increase the running time of timekeeper's devices, only meeting limited success. Given the restricted volume of a wristwatch, the size of the mainspring was immediately limited. Watchmakers then discovered the trick of adding an extra wheel to the customary gear train, in order to extend the length of its development. Unfortunately, using this system only led them to observe that the level of energy actually reaching the balance remained poor. To compensate, they fitted a smaller balance consuming less energy, but which also lost in stability. Therefore, it's not unusual to find watches that run for several days displaying an extremely unpredictable level of accuracy.

This challenge was a powerful source of motivation. I then imagined that the best and most obvious solution to lengthen the running time would be to increase the capacity of the spring development. Given its stability (1 metre and 1 millimetre thick), the challenge was to integrate it on the same level as the gear train and escapement. Thanks to the low torque of this spring, I could achieve extremely fast automatic winding (one and a half hour on a Chappuis cyclotest for over 5 day's running).

Once the challenge of autonomy was thus successfully met with this automatic winding calibre, I knuckled down to the second challenge of managing to insert various complications into that same movement: power reserve with large date display, fly-back chronograph with large date display, retrograde annual calendar, UTC, etc... and doing so while maintaining an identical size for all models in the Octa collection.

Three years of research and development were required before this one of a kind automatic calibre could be presented to the public.

François-Paul Journe



Octa Calibre

Optimized winding system_

Always taking into account the notes and observations concerning his watches, François-Paul Journe states: "I realized that one of my friend's Octa was never completely wound because he works on a computer and his hand doesn't move enough."

From this observation he creates the new Octa calibre (1300-3) that uses the slightest movement to automatically wind the watch. With talent, the watchmaker turns the problem around, and creates a new system that winds in one direction, only with a self-locking ball bearing system. The ceramic balls allow the off-centred rotor in 22 carats red Gold to move in one direction and block it in the other. This way, every infinitesimal movement is maximally exploited for an optimized winding of the watch.

The calibre retains the characteristics of the classic Octa with: a 160-hour power reserve and a variable inertia balance wheel for an optimum yield that offers each model of the Octa line an irreproachable stability.

Crown_

Manual winding :

Your watch is automatically wound when worn.

If the watch is stopped, turn the crown in position **0** about a dozen times anticlockwise.

All models of the Octa Line offer an exceptional power reserve of 160 hours.

The Octa models can operate above those 160 hours but the precision is thus not as efficient.

Setting the date :

Pull the crown in position **1** and turn anticlockwise.

A manual correction is necessary, except for the months of 31 days.

Setting the time :

Pull the crown in position **2** and turn anticlockwise to move the watch hands forward.

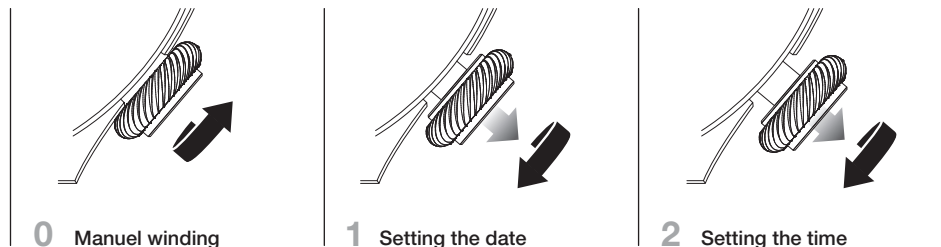
It is strongly advised not to turn the hands in the other direction.

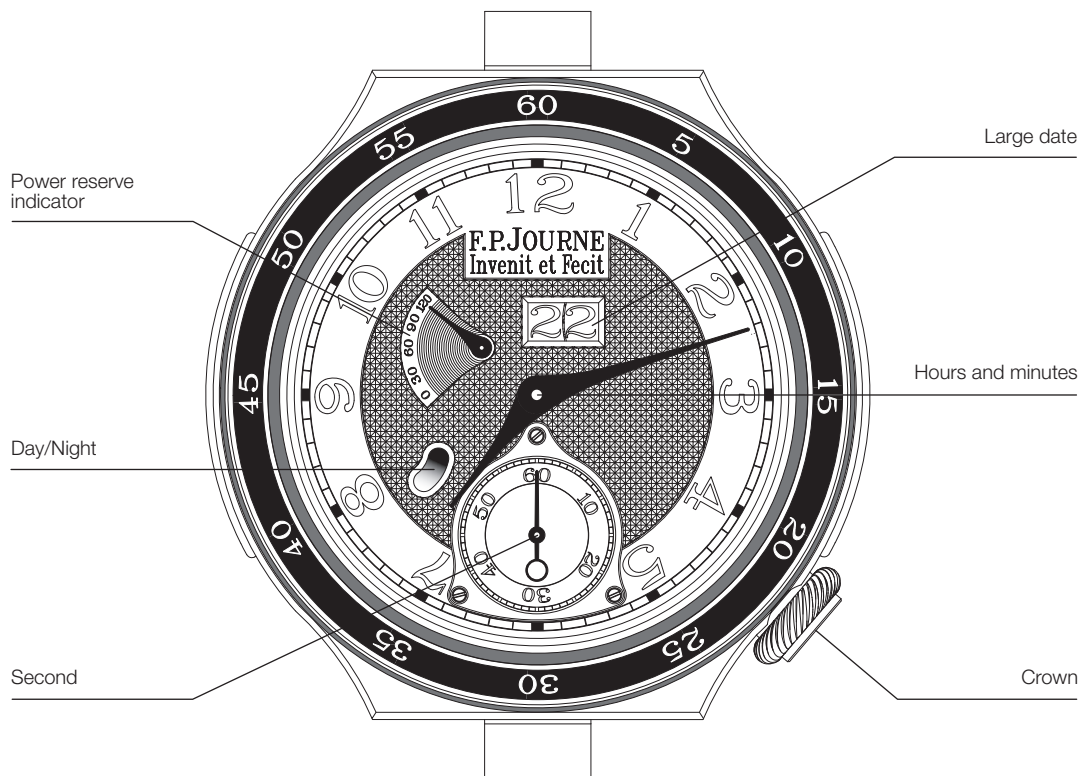
Power reserve :

The power reserve hand indicates the number of hours remaining for the functioning of the watch.

Important !

Push the crown back in position **0** for the watch to work.

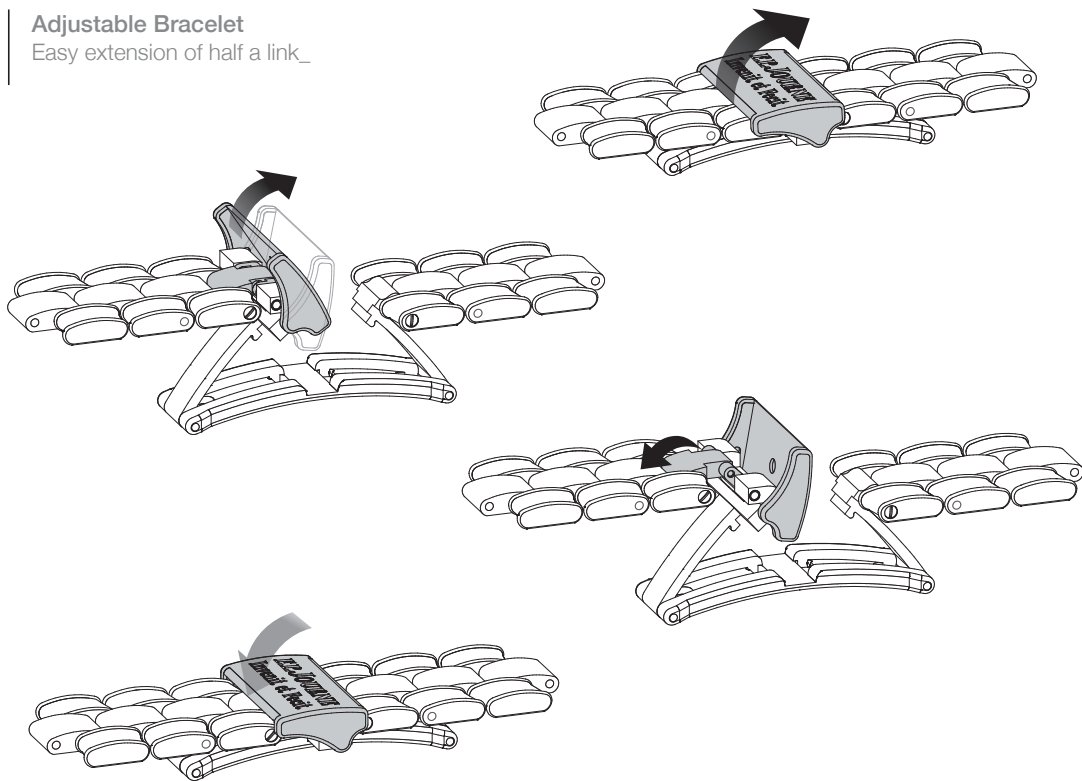




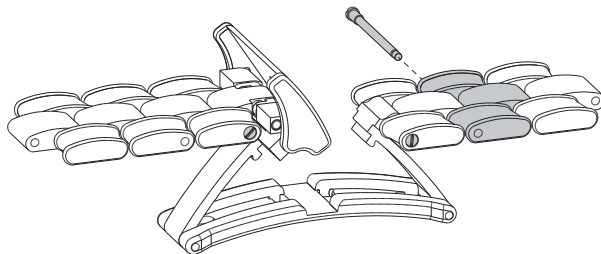
The second dial is fixed by
a circle screwed* on the dial
***Registered System**

Adjustable Bracelet

Easy extension of half a link_



Shortening the bracelet
of 1 or 2 links_

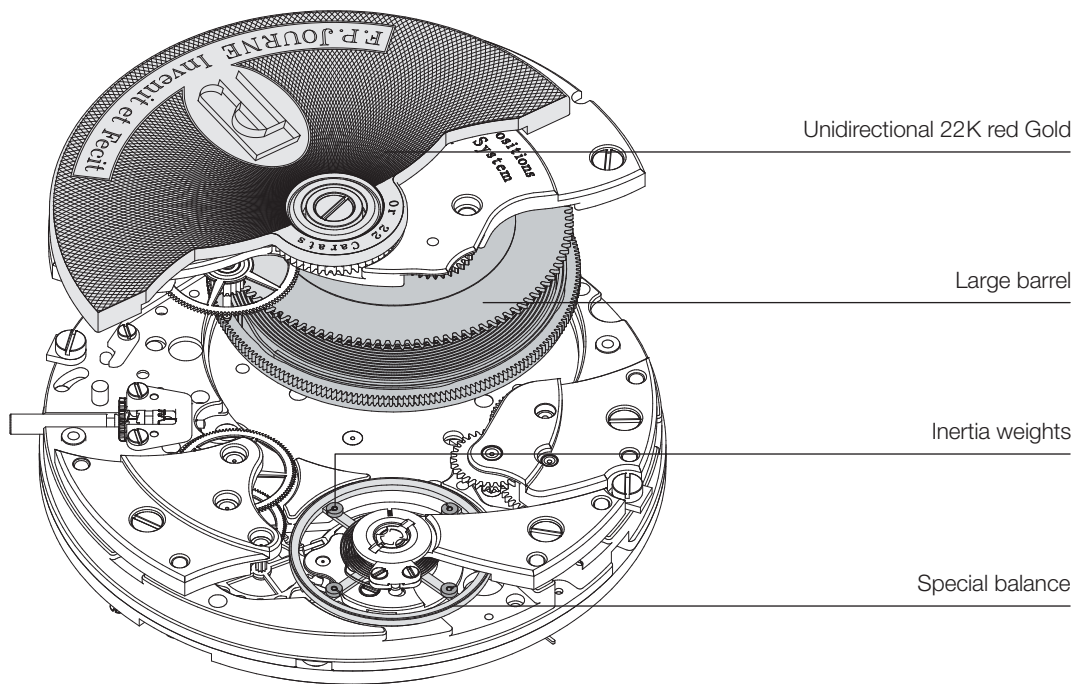
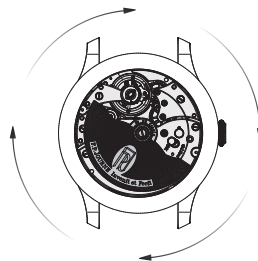


Mechanism of the Octa Automatique Réserve

Patented system EP

Important!

On a rotating watch winder, program 274 tours / 24h
Turn only in the indicated direction!



Specifications

Movement_	Calibre 1300.3 Unidirectional automatic winding Movement in 18K rose Gold
Dimensions of the movement_	Overall diameter : 30.80 mm Casing-up diameter : 30.40 mm Overall height : 5.70 mm Height of winding stem : 3.00 mm Diameter of stem thread : S0.90 mm
Balance_	Four adjustable inertia weights Flat Anachron microflamed spring Mobile stud holder Free Sprung Nivatronic laser-welded to the collet Pinned GE stud Frequency : 21,600 v/h, (3Hz) Inertia : 10.10 mg*cm ² Angle of lift : 52° Amplitude : 12h dial up : > 280° 90h dial up : > 220°
Main characteristics_	Three position crown : Winding of the watch in position 0 , clockwise Correction of date in position 1 , anticlockwise Correction of time in position 2 , anticlockwise Instant jump calendar Off centre winding rotor Barrel with slipping spring Escapement 15 tooth
Autonomy_	160 ± 10 h. Winding Speed on watch winder : 274 rotations / 24 hours

Indications_	<p>Centred hours and minutes Small second Large date Power reserve Day/Night indication</p>
Decoration_	<p>Circular stripes on bridges Partly circular graining on baseplate Polished screw heads with chamfered slots Pegs with polished rounded ends Steel components polished, chamfered and straight-grained</p>
Case_	<p>Platinum or 18K red Gold Diameter : 44 mm Total height : 11.10 mm</p>
Dial_	<p>Blue-Mauve Silver guilloché or ruthenium Silver guilloché Steel hands rhodium-plated or 5N Golden and blued Gold appliqué numerals</p>
Number of parts_	<p>Movement without dial : 256 Jewels 37</p>

Maintenance_

Your wristwatch should be serviced once **every four years** to maintain its precision.

Important_

Keep the original warranty card supplied with your wristwatch carefully. Your authorized **F.P. JOURNE** retailer will need this identity card for any after sales servicing. For all maintenance or repair, your wristwatch must be entrusted only to an appointed **F.P. JOURNE** agent.

Warranty_

Your **F.P.Journe - Invenit et Fecit** watch is covered by a warranty against any manufacturing flaws for a period of **2 years** as of the date of purchase appearing on the back of the warranty card or certificate. The warranty is valid only on presentation of the original card or certificate, duly filled out by the authorised retailer (serial number, date of purchase, retailer's stamp). The warranty does not cover normal wear or damage resulting from abnormal use of the watch, accidents or alterations.

Warranty extension_

If your **F.P.Journe - Invenit et Fecit** watch was purchased at an **F.P.Journe Boutique**, your watch is automatically covered for a period of **3 years** as of the date of purchase appearing on the back of the warranty card or certificate. If your watch was purchased at an **authorized retailer**, we kindly invite you to register on <https://customerservice.fpjourne.com/en/guarantee> during the 30 days following the initial date of purchase to benefit from **an additional year of warranty**.