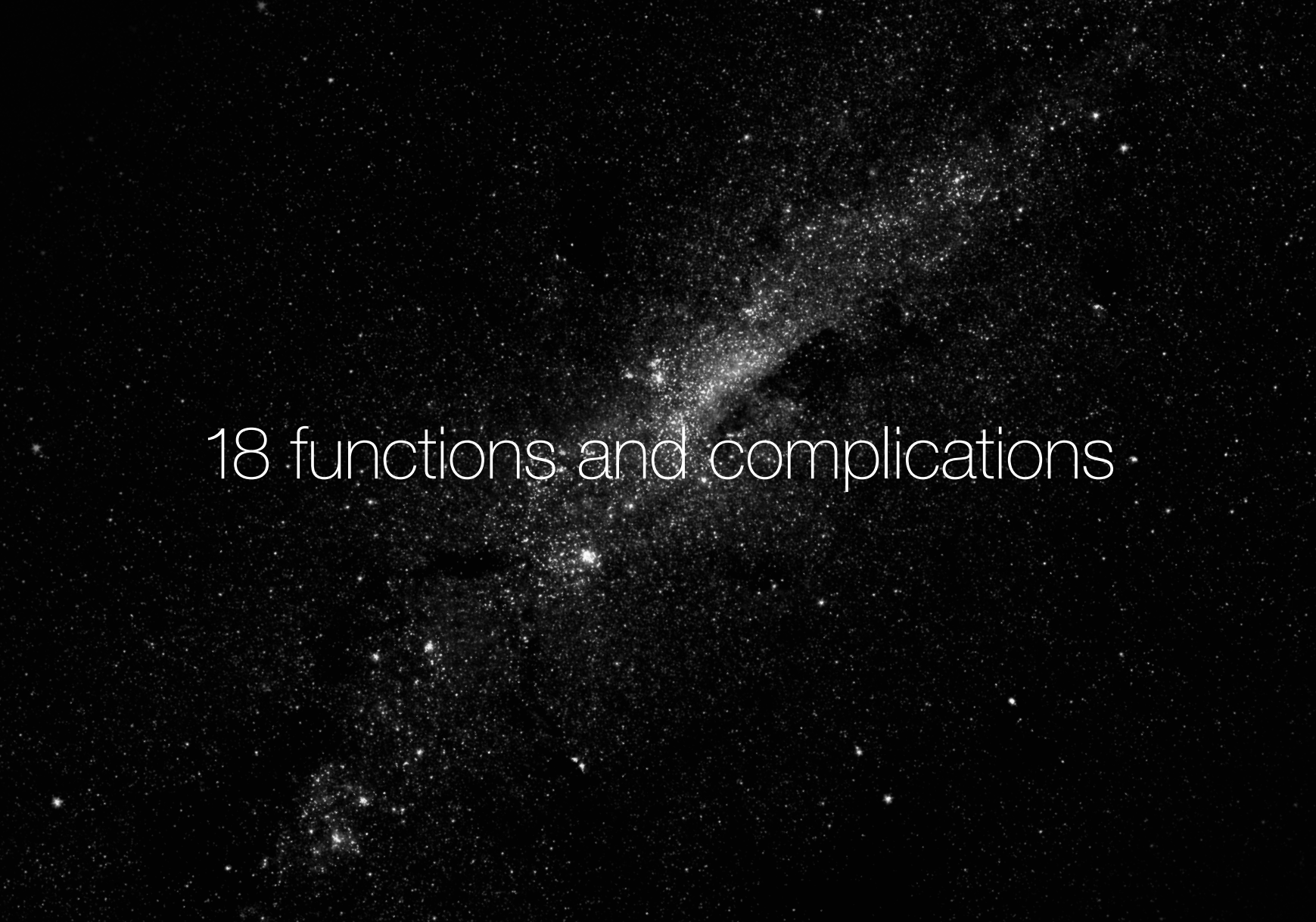
F.P.JOURNE
Invenit et Fecit

User Manual - Astronomic Souveraine

A unique design, based on an exclusive mechanism

English


18 functions and complications

Astronomic Souveraine
18 functions and complications

F.P.Journe presents the Astronomic Souveraine. It is a grand complication watch in steel, with tourbillon and minute repeater, whose vocation is to recall a long-forgotten gesture. That of losing oneself in the stars in order to better find one's way on Earth. There was a time when that poetic idea was not a paradox, but a self-evident truth. And like the instruments that were once used for the observation of the stars, the Astronomic Souveraine is above all a tool. But rather than opening a window onto the celestial vault, it celebrates Time in all its glory.

The inspiration for the project was an adolescent's drawing, found crumpled up behind the wastepaper bin. That sketch was done fifteen years ago by François-Paul Journe's son, Charles. Having drawn the sketch almost without thinking, on second thought the young man decided it was not appropriate. After all, he wasn't the watchmaker in the family! And yet... On the dial, there was a curved aperture for the path of the sun. It was a good idea. But what could be done with it? A self-winding watch? Why not? As long as there were not too many additional complications. François-Paul Journe began his research. His quest for the ideal watch took six years. And finally, it was back to the drawing board. The watch would have a manual-wind calibre that would allow more functions. It would be necessary, however, to ensure the delivery of enough energy to power all of them.

One of F.P.Journe's earlier creations served as his inspiration: a pocket watch with planetarium made in 1987 for a collector of scientific objects. That unique tourbillon watch indicated mean time and sidereal time, as well as the equation of time, a full calendar, and the power reserve. However, there could be no question of looking backward. The future astronomic watch had to be resolutely contemporary and possess a distinctive personality. Its power would come from a double barrel. And the tourbillon with remontoir d'égalité would guarantee its perfect isochronism.

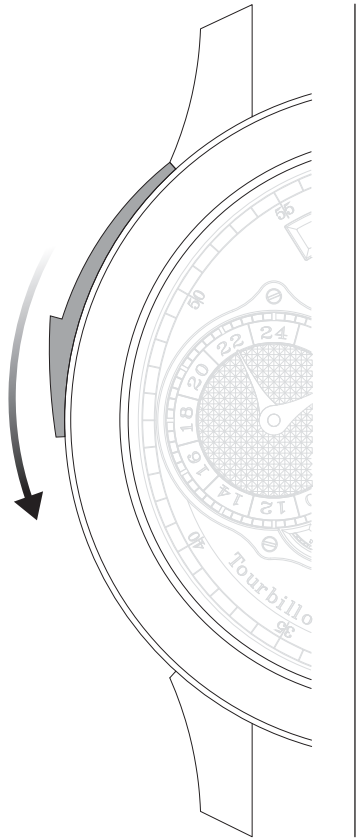
Nevertheless, the 18 carat rose Gold movement of the Astronomic Souveraine is totally novel. And it is, of course, very finely decorated. For example, the white Gold dial, whose sub-dials are embellished with clou de Paris decoration, and the moon phases, with a hyperrealistic moon that was traced from a NASA photograph. At 3h, there is the mean time (or civil time) dial, with a blue hand indicating a second time zone. At 9h, there is the sidereal time dial, which allows the observation of the stars. Next to it, the mean time seconds are shown on a disc. Between the two are the central minutes and the power reserve indication, which remains optimal up to 40 h. Above all this is a blue aperture showing the sunrise and sunset. Here, metal shutters lengthen or shorten the days. On the reverse there is the equation of time and a full annual calendar encircled by the signs of the zodiac. It is on this side that the dance of the tourbillon may be admired.

In all, this watch, which also strikes the hours, the quarters and the minutes, possesses 18 functions and complications. It is made up of 758 components, in addition to the case. However, the case is no larger than 44 mm in diameter and 13.80 mm thick. But watch lovers will have to be patient, as only four or five pieces will be made each year.

Settings sequence_

1 When the sun is visible in the dial, you can set the calendar.
2 Then, set the time. **Warning!** Time setting anti-clockwise only, do not turn the hands in the opposite direction.
3 Next, you can adjust the moon phases.

The other indications will automatically follow.



Trigger_

Push all the way down until it blocks, and release.
While triggering, the hammers strike the hours, quarters and minutes.

One hammer strikes the hours on a low-note gong.

The quarters strike thanks to the hours hammer alternated with the minutes hammer (one quarter = one stroke of the hours hammer and one stroke of the minutes hammer).

The minutes hammer strikes the minutes until 14 minutes.

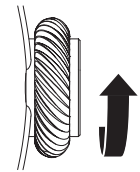
Please note that:

The sunrise/sunset, equation of time and sidereal hours functions depend on the hour and date functions and therefore are automatically synchronized.

Crown_

Position 1

Winding_
Keep the crown on **position 1** and turn forwards until it stops.

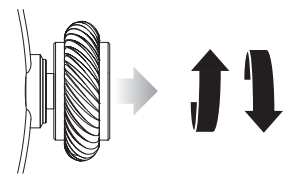


Position 1

Position 2

Date setting_
Pull the crown out to **position 2** and turn clockwise to set the date.
A date correction is necessary each month of February with 28 days.
Warning! No date setting between 10 pm and 4 am.

Moon setting_
Pull the crown out to **position 2** and turn anti-clockwise.
Each jump is equal to one day.
Warning! No moon setting between 10 pm and 4 am.

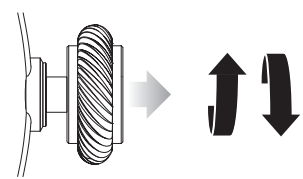


Position 2

Position 3

Time setting_
Pull the crown out to **position 3** and turn anti-clockwise to set the time

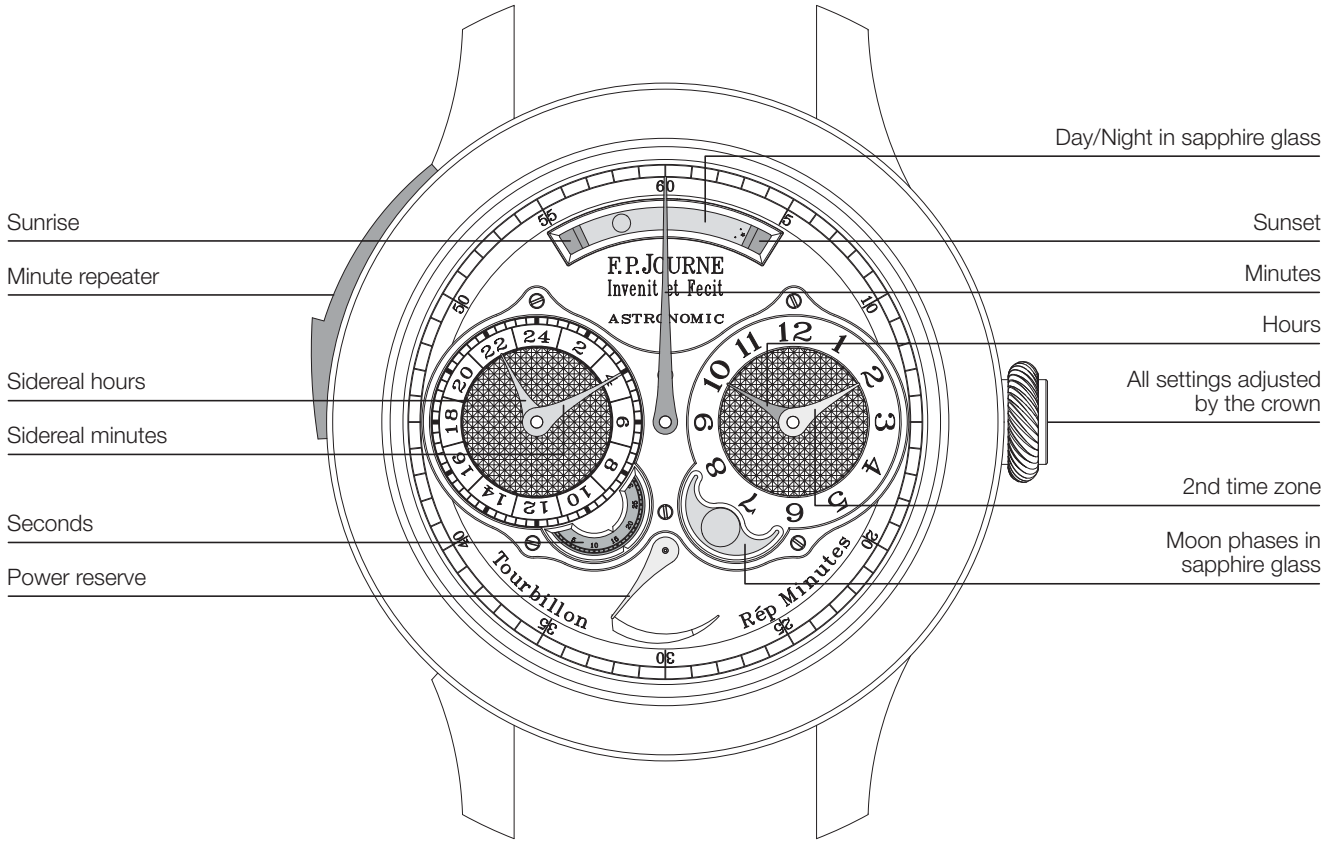
2nd time zone setting_
Pull the crown out to **position 3** and turn clockwise to set the 2nd time zone.



Position 3

Caution!

Push the crown back in **position 1** for the watch to work.



The hours, small second and moon phase dials are secured by a screwed Steel ring* to dial.
***Patented system**


Equation of time
Date, annual calendar
Double barrel
Tourbillon 60 seconds
“Remontoir d’égalité”
AQUARIUS
CAPRICORNUS
SAGITTARIUS
SCORPIO
LIBRA
VIRGO
LEO
CANCER
GEMINI
TAURUS
ARIES
PISCES
JANUARIUS
FEBRUARIUS
DECEMBER
NOVEMBER
OCTOBER
SEPTEMBER
AUGUSTUS
JULIUS
JUNIUS
MAIUS
APRILIS
RETARDE
AVANCE
Nicolas Copernic
R.P. JOURNE
Invenit et Fecit
68 Jewels
Gold Move

Movement_

Calibre 1619
Manual winding / 34 turns of crown
18K rose Gold

Dimensions of the movement_

Overall diameter:	37.00 mm
Casing-up diameter:	36.40 mm
Overall height:	10.75 mm
Height of winding stem:	4.59 mm
Diameter of stem thread:	S1.20 mm

Balance_

Balance with 4 inertia weights
Breguet Anachron spring
Pinned stud
Free sprung
Nivatronic laser-welded to collet
Pinned GE stud

Frequency:	21,600 V/h, (3Hz)
Inertia:	11.00 mg*cm^2
Angle of lift:	52°
Amplitude:	0h dial up: > 260°
	24h vertical: > 260°

Main characteristics_

Tourbillon with *remontoir d'égalité*
Minute repeater
Sidereal hours and minutes
2nd time zone
Moon phases
Annual calendar
Equation of time
Sunrise and sunset
Natural dead-beat second
All corrections by the crown

Indications_

Front:

Hours and 2nd time zone at 3h
Minutes in the centre
Sunrise and sunset at 12h
Sidereal hours and minutes at 9h
Power reserve at 6h
Moon phases at 5h
Seconds on disc at 7h

Back:

Equation of time in the centre
Annual calendar at 10h

Escapement_

15-tooth escape wheel
90° sided anchor fork

Power reserve_

40 hours

Finishing_

High quality
Circular waves on bridges
Circular grained baseplate
Polished screw heads with chamfered slots
Pegs with polished rounded ends

Case_

Steel

Diameter :	44 mm
Total height :	13.80 mm

Number of parts_

Movement :	758
Cased up with leather strap :	817
Jewels :	68