

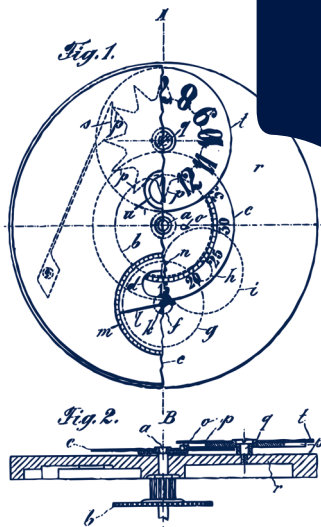
**SCIENTIGRAF
CHRONO**



EBERHARD & CO

Manufacture Suisse d'Horlogerie depuis 1887

USER MANUAL



1887

The Eberhard & Co. watch manufactory was founded by Georges-Lucien Eberhard at La Chaux-de-Fonds back in 1887. Ever since, the venture has specialised in the making of chronographs.

In this capacity, it has attained a highly respected position in the world of high-grade watches. With the introduction, at a later stage, of sportively elegant watches it has furthermore augmented this status of the Eberhard & Co. brand name.

Eberhard's success story is backed by consistent deployment of advanced technology, meticulous craftsmanship and, not least, by observing that long tradition of superior workmanship which has made Swiss watchmaking a household name.

Today, with well over a century gone by, watches by Eberhard & Co. continue to stand for that high-grade quality and those excellent virtues which will please even the most demanding of connoisseurs.

Today the historic Eberhard & Co. headquarters, at 73 Avenue Léopold-Robert, house the brand museum, which can be visited by appointment.

SCIENTIGRAF CHRONO



Since its foundation in 1887, Eberhard & Co. has always been committed to innovation with the aim of making its watches as reliable and precise as possible. This dedication found a particularly significant expression in 1961 with the creation of the Scientigraf model. This watch was also a response to the increasing use of electrical appliances, a source of electromagnetic fields that could potentially affect the precision of mechanical movements. The Scientigraf movement is therefore protected by a "Faraday cage" made of soft iron with the function of absorbing electromagnetic waves.

Today, Scientigraf is a popular watchmaking icon that stands out for its effectiveness in protecting the movement from the influences of the devices that are increasingly present in everyday life. With its vintage-inspired design, characterised by luminescent hour-markers in ivory or orange and the triangle element recurring in numerous details, Scientigraf is offered in an unprecedented chronographic version with two counters enhanced by a refined "azurée" finish. The 41 mm diameter steel case alternates between polished and satinised finishes, while the case-back bears the original 1961 design.

We hereby guarantee your Eberhard & Co. watch against any defect in manufacture or materials for a period of 24 months from the date of purchase, subject to normal conditions of use.

This guarantee does not cover:

- damage, including indirect damage, caused by shocks, falls or incorrect use of the watch
- glass or any other part of the watch due to normal use
- watches whose reference or matriculation number has been worn away or altered, or Shield Cards that have not been correctly activated
- work carried out on the watch or strap by non-authorised persons or alterations made to the watch that do not respect its original configuration
- damage caused by the failure to check the watch's water resistance
- possible shipping and insurance costs

To have your Eberhard & Co. watch serviced or repaired, please contact one of our service centres or an authorised retailer and present your Shield Card, filled in and complete with the activation PIN.

We recommend a check-up or overhaul of the movement on average every 3 years, depending on the conditions of use.

For more information, please visit [eberhard1887.com](https://www.eberhard1887.com)



A Push button to start and stop the chronograph

B Push button for setting to zero all hands of the chronograph

C Winding crown

D Hours-hand of the watch

E Minutes-hand of the watch

F Small continuous seconds-hand

G Small minutes-hand of the chronograph

H Centre-seconds-hand counter of the chronograph

I 1/5 second scale

FEATURES

The “Scientigraf Chrono” model is a mechanical chronograph watch featuring a 41mm diameter steel case equipped with a “Faraday cage” to protect the movement.

Featuring a screw crown, carved sapphire crystal with anti-reflective coating and screw case back, it is customised with a design inspired by electromagnetic waves.

The hands, as well as the indexes on the dial, are highly luminescent in order to aid night-time visibility.

Available version:

- Case in steel with steel bracelet equipped with the 2 CLICK® clasp.

Water resistance is guaranteed to a depth of 50m.



PROTECTION AGAINST MAGNETISM

In mechanical wristwatches, one of the most significant challenges to solve was that of the influence of magnetic fields, the presence of which is constantly increasing today, whilst remaining un-noticed by us as we are exposed to them: as a result, watches are often at risk of becoming magnetised. Indeed, even small magnetic fields can affect accuracy by causing small advances, while a strong magnetic field may even render a watch unusable.

In order to avoid these effects, by the late 1950s Eberhard & Co. began to produce watches using antimagnetic alloys and equipped with a protective structure in soft iron (also called “Faraday cage”) built around the movement, shielding it from the effects of magnetism.

The new “Scientigraf Chrono” model is built according to the same concept of a protective structure, a ‘containment mechanism’ capable of isolating, as an electrical conductor, its internal environment from external electrostatic fields.

The “Scientigraf Chrono” has been tested according to ISO 764:2020 (NIHS 90-10:2020) international standards and has fully passed both levels of the resistance to magnetism test providing for the measurement parameters to be expressed in A/m (Ampere/meters).

READING THE DIAL

On the “Scientigraf Chrono” dial there are 2 counters which have the following functions:

- Small continuous seconds-hand **F**
- Small minutes-hand of the cronograph **G**

The chronograph seconds are given by the centre-hand **H**

PUSH-BUTTONS

Make sure pushbuttons are always pressed in following order:

A : start

A : stop

B : return to zero

Abide by this sequence quite severely so as to preclude damage to the mechanism.

The push-buttons should not be operated in the water. Water-resistance is guaranteed for normal use.

USE OF THE CROWN



POSITION A - Screwed-in crown, guaranteed water-resistance



POSITION B - TWINDING OF THE WATCH - To unscrew the crown turn it counter-clockwise. When it is unscrewed, turn it clockwise to transmit the manual charge to the movement. If your "Scientigraf Chrono" has not been worn for some time, the automatic movement has to be wound manually, in order to obtain an immediate sufficient power-reserve and to ensure an accurate working of the watch.



POSITION C - TIME SETTING - Pull the crown to the first catch to set the time.

IMPORTANT

To set back the crown, push it lightly against the watch case while twisting it clockwise until it is fully screwed back in.

OPERATING INSTRUCTIONS FOR THE CHRONOGRAPH

Press the push-button **A** to start the chronograph mechanism. Press the push-button a second time to stop the chronograph mechanism. You can now read on the counters how many seconds **H** and minutes **G** have elapsed. Press the push-button again and the chronograph will restart from the intermediate stop. To return to zero, the chronograph must be in the stop position.

Press the second push-button **B** and all hands will return to zero. You are advised not to leave the chronograph mechanism operating continuously.

1/5 SECOND SCALE

The division on the dial of this model **I** enables the user to make observations not just to approximately a second, but to the order of 1/5 second.

DIRECTIONS FOR USE OF WATERTIGHT WATCHES

You may wear your "Scientigraf Chrono" when in the water or when taking a shower, but it is not fit for breath-held diving, plunging or diving activities. Important: we strongly recommend that you have the crown well tightened before possible contacts with water. Do not activate the pushbuttons nor manipulate the crown as long as the watch is wet or in the water. After using in seawater, rinse the watch under fresh water. Exposure to temperature shocks should be avoided. We recommend that you have the water-resistance checked at least once a year by a qualified technical service facility in order to find out if the gaskets need to be replaced.



1887

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