# c9 COLLECTION 

 OWNER'S HANDBOOKChr.WARD
L O N D O N

## TIME ON YOUR SIDE...

Your Christopher Ward watch has been designed and engineered by highly talented craftspeople to ensure not only accurate and precise timekeeping but also to bring a real pride of ownership that only luxury items of the highest quality can ever hope to deliver.

You have made an investment, a good one, and the aim of this handbook is to help you make the most of that investment during what I hope will be a lifetime of ownership.


Christopher Ward

John Harrison was born in 1693 in Foulby, West Yorkshire and lived for most of his life in Barrow upon Humber. He became a carpenter, like his father, was a gifted musician and a self-taught watchmaker, creating his first timepieces entirely out of wood.

He moved to London in the 1750 s, at the height of his development of his "sea watches" and died in the capital in 1776. The ship's chronometers were rediscovered at the Royal Greenwich Observatory in the mid-20th century and restored.

Today the H1, H2, H3 and H4 are on display at the National Maritime Museum in Greenwich. The H5 is owned by the Worshipful Company of Clockmakers, and is displayed in the Clockmaker's Museum in London's Guildhall.

## THE LONGITUDE SOLUTION

In 1760 horologist John Harrison took his 1735 invention of the Marine Chronometer to a higher level by making it portable in the form of a pocket watch - his H 4 was effectively the first precision watch and the true ancester of the Christopher Ward collection.

Galileo, Cassini, Newton, Halley. Some of the greatest names in modern science history tried, and failed, to solve what was described for centuries as "the longitude problem". It came down in the end to a self-taught horologist - a man who started out as a working class carpenter - to finally solve the problem in 1735, with the invention of the first ship's chronometer. He refined and refined the design and mechanics until in 1760 he produced the first practical tool for ship's navigation - a pocket watch sized device.

Now 250 years on it seems incredible that such a thing as the longitude problem ever existed. But exist it did: many sailors' lives were still being lost decades into the 18th century - just as they had been lost during the earlier explorations in the 16th and 17 th centuries - as a result of inaccurate navigation when ship's travelled east or west.

Ships sometimes arrived at their destinations as much by luck as by good judgement, and returning to home ports was just as, and sometimes more, problematic. The Isles of Scilly off the south west coast of England were a notorious location for shipwrecks as ships' captains simply got their positions wrong.

## A ROTATIONAL PROBLEM

While it was, and is, relatively easy to calculate position on the globe on a north to south axis using the sun or the stars and the lines of latitude, the east/west position - along the lines of longitude - could not be worked out in the same way because the earth is rotating.

There existed a theoretical solution based on measuring time, but until Harrison's invention was proved an astronomical solution was still thought to be the most likely avenue even into the 18th century. The time solution suggested that in order for ships to keep track of their position, they needed both the time at the home port and the time on the ship. The problem was that in order to create a system that provided accurate navigation, time would have to be measured to an accuracy of seconds - because seconds of time can represent huge shifts in distance.

This was a level of accuracy that did not exist until Harrison's breakthrough. Harrison understood that the longitude problem was not just about time, but about accurate time keeping and he worked for the stretch of his long life on achieving the accurate measurement of time.

The implications of Harrison's work are just as potent today as they were 250 years ago.

Chris Ward is himself inspired by John Harrison, both as an individual and as a watchmaker. "Apart from the navigational breakthrough, in the history of watches the ship's chronometer was revolutionary in that it made accurate time keeping portable.
"This had implications for the development of pocket watches right into the 20th century. Watches became increasingly smaller and were eventually small enough to be switched from pockets to wrists - an important practical and functional development that was only properly used for the first time by pilots in the First World War," Chris says.

By the early 18th century, such was felt to be the urgency of the problem of navigation - and it's implications for trade as well as the loss of life - that the British Parliament passed The Longitude Act in 1714. In effect this was a competition and challenge to the science community to come up with an answer. The Act had a substantial $£ 20,000$ prize attached to it - that was a great fortune at the time and equivalent to something in the order of $£ 3$ million today.

Harrison was never treated well by the science establishment or by the Board of Longitude set up by Parliament to administer the Act. He was never awarded the whole $£ 20,000$, but given grants and awards piecemeal. But he has nonetheless gone down in history as the inventor of the Ship's Chronometer that revolutionised navigation.

## THE ORIGINAL SEAMASTER

He did have supporters. Clockmaker George Graham, to whom Harrison first showed his concept in 1728, supported him financially so that he could develop his ideas, and Astronomer Royal Edmond Halley - of Halley's Comet fame - was another champion from the time when Harrison first proposed his solution.

Harrison, working with his brother and later with his sons, engineered a clock that remained accurate under the changing conditions experienced on board ships - changes of humidity, temperature, salination, movement, gravitational pull, and compression, among others. He solved the problem by using different metals in the movement that expanded and contracted in complementary measures and by doing away with the need for unstable lubricants through the use of his own invention of the grasshopper escapement.

His first 'sea clock', the Hl (pictured right), was tested in 1736 on a trip to Lisbon in Portugal. On the return voyage Harrison's calculation of landfall was accurate - the sea master's own calculation was 60 miles out. It was a very slow process to move from that first machine - a large and ungainly instrument - to the H 4 pocket version of 1760 . Intervening were wars, lack of funds, engineering breakthroughs and the development by Harrison himself and by other watchmakers of precision movements on a much smaller scale than had previously been thought possible.

The H4, which measures 5.2 inches in diameter, was trialled in 1761. On arrival in Jamaica following a voyage from England, the H 4 was four minutes slow, an error in longitude of 1.25 minutes or about one nautical mile.

Despite this, the Board of Longitude refused to pay the full $£ 20,000$ to Harrison and demanded another trial. Harrison by this time, was working on the next iteration - the H5.

By the time of his death in 1776, Board of Longitude had finally acknowledged Harrison. Captain James Cook used copies of his H4 on his historic voyages to the southern Pacific. Chris goes on: "Accurate clocks are one of the things that made Britain great in the 18th and 19th centuries. Before Harrison's invention crossing oceans was not easy - sailors just could not plot with any accuracy."

Christopher Ward is marking the 250th anniversary of the H 4 with a series of three automatic watches. Each has a quintessentially English appearance, and complications that nod to Harrison's own timepieces two time zone settings prevalent among them.


## LONGITUDE AND LATITUDE

## What's the difference between longitude and latitude?

Lines of latitude run in parallel to each other, rounding the globe to the north and to the south from the mid-point Equator, which is at $0^{\circ}$ latitude. They stay parallel to each other in concentric rings of decreasing size. Key lines of latitude in addition to the Equator are the Tropic of Cancer and the Tropic of Capricorn. These tropics mark the high points of the sun in summer in the northern and southern hemispheres, respectively.

Lines of longitude, on the other hand, straddle the globe in circles of the same size, that converge north and south at the Poles. The $0^{\circ}$ longitude line, the Prime Meridian, runs through Greenwich in London - hence Greenwich Mean Time. The Prime Meridian has, however, moved to different locations over time, reflecting political and scientific power at any time. The Canary Islands, Paris, St Petersburg, Rome and Jerusalem have all been named as home to $0^{\circ}$ longitude, among others, over the past 2,000 or more years

## What was the longitude problem?

The nub of the problem was for ships' navigation. Latitude is fixed, and if you can see the sun, experience the length of the day, and read the stars at night you can calculate your position north to south. Sailors have been able to do this for millennia.

But the globe turns every 24 hours, so moving across the globe east or west is based on changing time and not a fixed position. As the globe turns $360^{\circ}$ in 24 hours, each hour's journey is equivalent to $15^{\circ}$ of longitude, which is one hour difference in time. To calculate your ship's distance travelled you need to know the time at your port of departure as well as the time on board. And to do this, you need to have clocks that work with absolute precision.


Chris concludes: "As a business we also find John Harrison a real stimulus to our work. He showed a combination of determination, grit, fortitude and perseverance plus a touch of genius - he is probably the finest watchmaker that we have ever had and his legacy goes on today."


## OUR WATCH CARE PROGRAMME

Your C9 watch is constructed from the finest components and materials available including one of Switzerland's finest automatic movements. As with all watches of this quality, with the right care and attention, your new Christopher Ward watch has the potential to become an heirloom piece giving further joy to future generations. It's for this reason we have created our industry leading approach to after-sales care, starting with our famous 60/60 Guarantee which remains the most comprehensive guarantee in the world of watchmaking. Christopher Ward's 60/60 Guarantee is designed to deliver you complete peace of mind and the best support possible throughout the lifetime of your ownership. The guarantee has two key elements and sits alongside our Servicing and Repairs Programme:

## 60/60 GUARANTEE

## 1. 60 DAY FREE RETURNS

Our success depends on you being completely happy with your new Christopher Ward watch. You have up to 60 days to return your watch, absolutely free of charge, and receive a replacement or full refund by return - so long as it has not been worn and is returned in box-perfect condition.

## 2. 60 MONTH MOVEMENT GUARANTEE

Your watch, at its heart, has a top quality precision engineered Swiss movement - so it's very unlikely to give you problems with the minimum amount of care and attention, including a regular service. We recommend you return your watch to us every $3 / 4$ years for a service, so our expert technicians can keep your fine timepiece in the peak of condition.

## SERVICING \& REPAIRS...THE CHRISTOPHER WARD WAY...

Our innovative approach to servicing and repairing your Christopher Ward watch means that having your watch serviced or repaired doesn't mean months of waiting followed by an exorbitant bill - which is pretty much the experience guaranteed by every other luxury watch brand. We have developed an easy, quick and affordable expert service and repairs programme that doesn't cost the earth and has your watch back where it belongs - on your wrist - in double-quick time.

Visit our website for more details about our 60/60 Guarantee and Service and Repair Programme.

And here's a few tips to help keep your watch working perfectly...

- Never change the date between the hours of 8pm and 2 am - it's a little like changing gears in a car without using the clutch - Never a good idea.
- Thoroughly rinse your watch in fresh water after immersion in salt water.
- Always ensure the crown is fully tightened before use in any water.
- Always adhere to the water resistance rating of your watch which you will find later in this handbook.
- Never fully wind your watch if it stops; 5-10 revolutions should suffice to have it restart.
- Wear your watch every day if possible as this will enable it to keep better time as well as preventing the lubricants in the movement from solidifying.
- Consider buying one of our automatic watch winders, which replicates the wearing of your watch, if you can't wear your watch every day and/or own more than one watch.
- Although your watch is fitted with the finest Incabloc ${ }^{\text {TM }}$ anti-shock system it is best to avoid hard surfaces or sharp knocks. You may not want to wear your watch playing racquet sports, for instance.




## THE C9 AUTOMATIC

FEATURES
Swiss made
*25 or 26 jewel Swiss mechanical movement
Self-winding automatic movement
38 hour power reserve
Hand-polished surgical grade stainless steel case
Unique engraved serial number
Anti-reflective sapphire crystal
Transparent case back
Italian leather deployment strap

TECHNICAL DATA
Diameter: $\quad 43 \mathrm{~mm}$
Height: $\quad 10 \mathrm{~mm}$
Calibre: *ETA 2824-2 or Sellita SW200-1 (élaboré)

Case: 316L stainless steel
Water resistance: 5 ATM / 50 metres
Strap: $\quad 20 \mathrm{~mm}$ Italian leather

## DESCRIPTION OF THE DISPLAY AND CONTROL BUTTONS

The C9 Automatic has a maximum power reserve of 38 hours when fully wound. To re-power the watch after a period of non-use, simply wind the crown for approximately (a minimum) of 20 revolutions. Normal wearing will very quickly allow the rotor to start re-powering the watch over time after putting it on your wrist.

## DISPLAY ELEMENTS



## SETTING THE TIME/DATE

- Position 1 is for winding in power. Wind in a clockwise direction to re-power the watch.
- Pull gently into position (2). For rapid date correction, turn in a clockwise direction.

- Pull gently into position (3). This position is used for handsetting, and stopping of the second hand.

Please note: Date correction should not be carried out between 20.00 hrs and 02.00 hrs as the watch gearing will already be aligning itself to change the date. The crown should always be pushed in after adjustment, and it is best to do so from position 3 to avoid advancing beyond the desired date.


## THE C9 GMT

## FEATURES

Swiss made
Self-winding automatic with (élaboré) finish
38 hour power reserve
Dual-time GMT function
Date calendar
Hand polished surgical steel case
Anti-reflective sapphire crystal
Transparent crystal case-back
Unique engraved serial number
Italian leather deployment strap with easy opening butterfly clasp

TECHNICAL DATA
Diameter: $\quad 43 \mathrm{~mm}$
Height: 10 mm
Calibre: ETA 2893-2 (élaboré)
Vibrations: 28,800 vph
Case: 316L stainless steel
Water resistance: 5 ATM / 50 metres
Strap: $\quad 20 \mathrm{~mm}$ Italian leather

## DESCRIPTION OF THE DISPLAY AND CONTROL BUTTONS

The C9 GMT has a maximum power reserve of 38 hours when fully wound. To re-power the watch after a period of non-use, simply wind the crown for approximately (a minimum) of 20 revolutions. Normal wearing will very quickly allow the rotor to start re-powering the watch over time after putting it on your wrist.

## DISPLAY ELEMENTS



## SETTING THE TIME/DATE

- Position (1) is for winding in power. Wind in a clockwise direction to re-power the watch.
- Pull gently into position (2). For rapid date correction, turn in a anti-clockwise direction.

- Pull gently into position (3). This position is used for handsetting, and stopping of the second hand. A second time zone can be selected by means of the GMT/24hr hand which completes one revolution in 24 hrs (see over).

Please note: Date correction should not be carried out between 20.00 hrs and 02.00 hrs as the watch gearing will already be aligning itself to change the date. The crown should always be pushed in after adjustment, and it is best to do so from position 3 to avoid advancing beyond the desired date.

## GMT EXPLAINED

The GMT/24hr hand with its triangular point allows you to read the time back home at a glance on the 24 -hour scale at the centre of the dial.

People travelling East, for example from London to Hong Kong, should pull the crown to position (2) and move the hour hand forwards (in this case by 8 hours). The table (shown below) can be used to calculate any time difference.

People travelling West, for example from London to New York, should pull the crown out to position (2) and move the hour hand backwards (in this case by 5 hours). The table (shown right) can be used to calculate any time difference.

In both cases, the GMT/24hr hand
 allows travellers to read the time back home - London, in our example - at a glance, using the 24 -hour scale on the dial. The second time zone in this case Hong Kong or New York - is read off the dial in the usual way. Each time the hour hand crosses midnight, the date jumps forwards or backwards, depending on whether the hour hand is moved forwards or backwards.

## SETTING THE GMT/24HR HAND

- Pull gently into position (2) Turn the crown clockwise and rotate the hand until you have reached the desired time indication.
- To reset GMT to your local time. Pull the crown
 into position (3). Turn counter clockwise past midnight and stop at 3:00a.m. Then push the crown into position (2). Rotate the GMT hand until it is also at 3:00a.m. then set the date.
- Pull the crown out to position (3) and set the time and the GMT hand will be in sync with local time.

Please note: Date correction should not be carried out between 20.00 hrs and 02.00 hrs as the watch gearing will already be aligning itself to change the date. The crown should always be pushed in after adjustment, and it is best to do so from position 3 to avoid advancing beyond the desired date.


## THE C9 CHRONOGRAPH

## FEATURES

Worldwide limited edition of only 250 pieces
Swiss made
25 Jewel customised automatic chronograph movement

Hand polished surgical-grade stainless steel case
$\mathrm{Hr} / \mathrm{min}$ chronograph function
See-through back plate
5 ATM water resistant case
Anti-reflective sapphire crystal
Adjustable strap with easy opening butterfly clasp
Unique engraved individual serial number

TECHNICAL DATA
Diameter: $\quad 43 \mathrm{~mm}$
Height: 13 mm
Calibre: ETA 7750 (Modified)
Vibrations: $\quad 28,800$ per hour
Case: 316L stainless steel
Water resistance: 5 ATM / 50 metres
Strap: 20mm Italian leather

## DESCRIPTION OF THE DISPLAY AND CONTROL BUTTONS

- The minute counter measures 30 minutes per rotation.
- The hour counter measures 12 hours per rotation.
- The centre stop-second measures 60 seconds per rotation.


## DISPLAY ELEMENTS

## CONTROL BUTTONS



Please note:
Before using the chronograph functions, please ensure that:

- The crown is in position (1)
- The 2 chronograph hands are precisely at zero position following activation of push-button B


## SETTING THE TIME



- Pull out the crown to position 2 (the watch stops).
- Turn the crown until you reach the correct time e.g. 08.45 hr .
- Push the crown back into position (1) and the crown should sit flush to the case.

Please note. The watch can be also be manually wound from position (1).

Minute Counter

## Push-button A



CHRONOGRAPH:
BASIC FUNCTION
(Start / Stop / Reset)

## Example:

(1) Start: Press push-button A
(2) Stop: to stop the timing, press push-button A once more and read the 2 chronograph counters:
$4 \mathrm{~min} / 38 \mathrm{sec}$
(3) Zero positioning:

Press push-button B
(The 2 chronograph hands will be reset to their zero positions).

## Example of use:

Timing a runner over 100 m .

1 ATM (10 METRES)
Safe to wear your watch while washing your hands with tap water.

3 ATM (30 METRES)
Washing your car and/or general hosepipe usage.

5 ATM (50 METRES)
Water resistant to most household shower units.

10 ATM (100 METRES)
Safe to use while snorkelling in open water.

30 ATM (300 METRES)
Ideal for experienced divers and those practising scuba-diving.

50 ATM (500 METRES)
Professional divers, experiencing prolonged exposure underwater.

100 ATM (1000 METRES)
Professional deep sea diving.

## WATER RESISTANCE

Although your watch has been through vigorous static pressure testing, it is worth remembering that there are many variables that can affect the water resistance of your watch.

For instance, arm movements during swimming and the sudden impact of diving and watersports will drastically increase the pressure the watch is under. Wearing your watch in the bath, shower, or sauna can also have an effect as a rapid increase in temperature can cause seals to expand and in extreme cases, malfunction or create condensation.

For these reasons, the water resistance rating of your watch (as shown) should only ever be considered a guideline and we strongly recommend they are always adhered to.

## STRAPS \& BRACELETS

As you would expect, we place as much emphasis on the quality of our straps and bracelets as we do our watches. We only use the finest leathers for our straps and our premium alligator straps are all ethically sourced from CITES approved farms in Louisiana. Similarly, we only use the finest metals in the construction of our bracelets, all of which are precision engineered for durability, efficiency and comfort.

The following guidelines explain how easy it is to use and adjust your Christopher Ward strap or bracelet:

## LEATHER STRAP WITH EASY RELEASE BUTTERFLY CLASP



Step 1 Locate the clasp
Step 2 Press the quick-release
Step 3 Pull open the clasp
Step 4 Locate the opening
Step 5 Thread strap through
Step 6 Secure the strap
Step 7 Close the clasp
Step 8 Complete

## BRACELET WITH MICRO-ADJUSTMENT



Step 1 Press to release
Step 2 Expand adjustment
Step 3 Adjust pin position
Step 4 Close the clasp

DIVER'S EXTENSION (MHere appucable)


Step 1 Press to release
Step 2 Expand adjustment
Step 3 Adjust pin position
Step 4 Close the clasp

## QUICK-RELEASE PINS <br> (WHERE APPLICABLE)



Step 1 Locate the release
Step 2 Drag button back
Step 3 Detach strap
Step 4 Align holes to click a new strap in position

## KEEPING IN TOUCH WITH CHRISTOPHER WARD...

From small beginnings just a few short years ago (our first workshop was actually a refurbished chicken shed!), Christopher Ward has won a worldwide following for his eponymous watch brand and can justifiably claim to manufacture the most affordable luxury watches in the world.

For many, the philosophy behind the brand, of trying to put luxury watches within the reach of everyone, is as attractive as the watches themselves, as is the very open approach of the business which means that Chris and the team spend a lot of time communicating personally with our customers - many of whom have become friends.

As the owner of a Christopher Ward watch, if ever you need to get hold of us we are at your service. We have listed some useful contact details on the back cover.

There is also always something new going on at our website at www.christopherward.co.uk and, if you haven't already discovered the independent forum dedicated to our brand at www.christopherwardforum.com we would recommend a visit. Informative and fun, it's a great place to hear the unexpurgated view of Christopher Ward of London!

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