ALL TIME PIECES RESTORED BY GOLDSMITHWORKS

watches restored by GOLDSMITHWORKS OFFERED ONLINE EXCLUSIVELY ON EBAY

GOLDSMITHWORKS INVESTS IN 90% OF THESE EXCLUSIVE OFFERS ON EBAY ASSISTING OTHER VINTAGE WATCH DEALERS KEEPING IT IN THE FAMILY

YOU MAY FIND A NUDGING SITE WHERE WE GENTLY NUDGE OUR BROWSERS TO OUR ONLY LIVE RETAIL --EBAY

CELEBRATING 36 YEARS IN FIELD BEGAN TRADING VINTAGE WATCHES ONLINE WITH POLYGON IN 1992

IT is alleged the first the watch made for flight was the Cartier Given to Santos-Dumont who attempted to state he was the first to fly and not the Wright brothers because they did not use wheels on their plane…

The individuals whom use this explanation do it to sell watches for companies like Cartier. Now I am not saying I know it all, only supplying some facts that are fact as to aviators watches. I may have missed a few and there is always more to the story. Rock

The use of the Cartier given to a pilot/aviator is like Rolex, who registered “MARCONI” as a watch brand after MARCONI won the Nobel prize for radio, producing these before. In fact, Rolex did not register the Rolex name until after producing MARCONI watches.

What Watch Would You Invest In? MARCONI Or Rolex? [not that MARCONI is not collectible]. Does The Watch Look, Act Or Perform As A Pilots/Aviators Watch? No! Read Below For A History That Connects To Facts Of Use And Design!

NOTE THIS IS A PRETTY GREAT HISTORY BUT THERE ARE OTHERS THAT ARE NOT ON THIS PDF. IF YOU HAVE ONE LET US KNOW

IF YOU HAVE A BRAND/MODEL TO INCLUDE LET ME KNOW
WWI

THOUGH NOT A GROUND BREAKING AVIATOR DESIGNED WATCH
THIS ALPINA, RESTORED BY ROCK AND PURCHASED BY TO ALPINA
IS INCLUDED DATING IS WORLD WAR ONE [WWI]

“FLIEGERTRUPPEN”

WWI: 1915 -1918 -German Fliegertruppen German Aerial Detachments
WWI: Pre-Luftwaffe” Was Called The Luftstreitkräfte And Very Early In The War As Die
Fliegertruppen Deutschen Kaisereiches (The Flier Troops [Of] The German Empire)
WWI: P.U.W.: (Polish) Prüfanstalt Und Werft Der Fliegertruppen – The Test Institute And
Workshops Of The Flying Troops) Created Bombs To Drop From German Aircraft
WWI: Eigentum Der Fliegertruppen = Property Of The Flier Troops/Flying Corps
Sometimes “ Flz ” The Mark Of The Prussian Air Corps In W.W.I Fleiger (Flyer) Und Luftfahrt
(Aviation)
P.U.W. (Prüfanstalt Und Werft Der Fliegertruppen – The Test Institute And Workshops Of The
Flying Troops)
WWII: The Swiss Air Force (Swiss Standard German Is Used In Writing)
**WWI: Eigentum Der Fliegertruppen**
Property Of
The Flier Troops/Flying Corps

Eigentum Der Fliegertruppen

**Fokke-Dr-1-Triplane**

**Manfred Von Richthofen The Red Baron Top Ace of WWI 80 victories**

**Ernst Udet German Ace 62 victories helped resurrect German Air Force**

**B-UHR FLIEGER AVIATOR TYPE**

I AM ADDING THIS UNDER WWI BUT IT IS WWII
German B-UHR FLIEGER Aviator Type-
WWII German Pilot

One Of The Most Copied And Duplicated WWII Watches

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Above are British WWI Zenith, Elgin, and Gallet Mark IV and Mark V 8 Day Pilots Watches. Note the broad arrow under the "A" Air Ministry Property Mark.

1914-1918

WWI Waltham 8 Day Flight
Over sized for dash use
Military 24 Hr Dial With Raised Radium, Illuminated Numerals/Hands

RESTORED BY ROCK

1915-1921 FRENCH JAQUET FLIGHT DASH TIMER W/ALUMINUM MOUNT

Rear Winding. Top Start Stop. Side Return TDC
WHEEMS

The First True Aviators Watch Designed By A Pilot Specifically For Pilots By An Industry Great That Laid The Ground Work For The Both The Linburgh Hour Angle Watch And Glycine Airman Was The Longine Weems....


His “System” Then Employed A Modified Sextant Taking Two “Shots” Of The Sun, Allied To An Accurate Time Reading From His “Second Setting Watch”, Followed By Making Reference To The Tables In The Line Of Positions Book.

(The Line Of Position Book Provided Extensive Charts With Precalculated Positions; Allowing A Pilot To Look Up The Positions Quickly And Easily, Instead Of Performing The Complicated Calculations Himself.)
restoration by rock

NOTE THE ROTATING BEZEL LOCK AT 2
2 styles early 27.7 mm locking crown at 2 pos
later 33mm locking crown at 4 pos

Unless Your Watch Had A Hacking Seconds-Hand, Like The A-11 Pilots WWII Watch W/Hack Introduced Ten Years Later, Along With Precise Timekeeping And You’ve Set Your Watch It Correctly In The First Place, You Can Be Out By A Few Seconds At Any Given Time And A Few Seconds At High Air Speeds Over Great Distances Can Prove Dangerous, If Not Fatal. The Weems System Along With His Invention Of The Second Setting Watch Enabled Pilots And Navigators To Read Truly Accurate Time Directly From The Watch Face During An Era When Chronometric Precision Was Costly And Rare. Especially With The Help Of A Radio Signal….

In 1929, in partnership with Longines, Weems registered a patent for his design. Longines produced the original 28mm “WEEMS” with locking crown at 2 position and added a 30mm larger model with locking crown at 4 position, [thus the Weems came in two sizes, one the same size as the decade later U.S. GOV MIL WWII A-11 PILOTS WATCH]
NOTE THE ABOVE IS A FAKE RECALL THAT A-7 WAS A LONGINES SPLIT SECOND TIMER --HAS NORMAL CLOCK TIME-- WITH TIMING BUTTON IN CROWN. IT HAD AVIGATION-WHICH STOOD FOR AVIATION AND NAVIGATION BUT WAS CHANGED TO NAVIGATION ON THE LONGINES A-11 WEEMS AND ON OTHER AC WATCHES . NOTE SPECIFICATION? SPELLING WRONG. NO WAY IS THAT A LONGINES WITTNAUER MOVEMENT FOR THE WEEMS A-11....

PLEASE NOTE WE ONLY OFFER OUR PRODUCT ONLINE WITH EBAY

GETTING BACK TO WEEMS VERSIONS. THERE ARE NO WRITING ON DIA VERSION WHICH IS OFFICIAL US MILITARY RULES --YES WE HAVE MANY DOCUMENTS INCLUDING THE EXPLAINATION FOR THIS RULE.

THEN THERE ARE THE 1936 VERSION WITH THE OFFICIAL PATENT.

THEN THERE IS THE AC VERSION THAT WAS CREATED IN THE 1940'S. AS YOU WILL SEE THROUGH OUR FREE PDF, AM "AC", SINAGE ON BACK WITH THE REGULAR A-11 SPECS.

SOME OF THESE HAVE A ARMY AIR CORPS SIGNATURE ON THE SWEETS HOLD DOWN BRIDGE.

THEN, LITTLE DO THESE PEOPLE WHOM BOMBARD ME WITH ENDLESS HATE IN QUESTIONING OF WHAT I AM OFFERING, EVEN CAUSING HEADACHES WITH LISTINGS, THERE WERE 200 FREE 1934/35 WEEMS THAT WERE PROVIDED FREELY WHEN THE ARMY AIRCORPS HAD A TERRIFIC PROBLEM WITH NAVIGATION. THESE 200 WERE SHIPPED TO TWO BASES. THEN, IN THE LATE PART OF 1935 EARLY 1936, 1800 MORE WERE PURCHASED FOR THE US ARMY AIR CORPS. THESE WERE NOT STAMPED, SIGNED OR GIVEN A MILITARY NUMBER. LIKE A-7 A-11 A-17 3118B

IN FACT, THE COSTLY LARGE A-7 LONGINES --I HAVE PIC BELOW- NAVIGATION WATCH WAS ENDED DURING THIS TIME. IT WAS REPLACED WITH WEEMS. NO NUMBER UNTIL 1940!!!! WHICH IT JOINED THE A-11 CLASS UNTIL LONGINES PRODUCED THE STRAIGHT LONGINES A-11. A HACKING LONGINES ON THE LARGE SIDE--COMPARED WITH ELGIN WATHAM BULOVA AND WEEMS.

BELOW IS THE FREE 1935 GIFT OF 200 WEEMS

NOTE 1935 DATE

THE AC AND A11 VERSIONS WERE NOT CONTRACTED FOR UNTIL 1940
ABOVE IS FULL STAMP [ENGRAVED]

NOTE U.S ARMY A.C.

THE SECOND AVIATOR DESIGNED WATCH FOR THE AVIATOR DESIGNED BY AVIATOR LINDBERGH - A PUPIL OF WEEMS - WAS PATENT REGISTERED IN 1935 AND PRODUCED BY LONGINES

FURTHER BUILDING THE BLOCKS THAT WOULD LAY ADDITIONAL COMMON GROUND FOR THE AIRMAN
Charles A. Lindbergh, A Pupil Of Weems, Used The Weems Concept As An Additional Feature In His Hour Angle Watch. This First “Hour Angle” Watch, Which Was Patented By Lindbergh, Had A Hand Wound Pocket Watch Movement Inside Of A Huge Case And An Extra Long Leather Strap For Wearing Over A Thick Flight Jacket Sleeve. The Crown Was Oversized To Facilitate Winding While Wearing Gloves.

Featuring A Demarcated Rotating Bezel That Allowed For The Equation Of Time (The Difference Between A Standardized 24-Hour Day And The Fluctuating Time Of The Earth’s Travel Around The Sun) It Was An Accurate Time Piece Which Calculated Longitude.

A Rotating Central Disc On The Dial Allowed For The Synchronization Of The Seconds Without Stopping The Sweeping Hand.

Unique Dial Markings Allowed A Pilot To Instantly Tell His Location By Corresponding The Time With The Earth’s 360-Degree Rotation (The “Hour Angle”).

Both The Bezel Locking Mechanism Of Weems, And The Use Of An External Bezel For Flight Was INCLUDED By Lindbergh.

LATER Added 24Hr Modified Movements By Helbros And A Few Others WERE RELEASED In 1942.

Lindbergh Offered Glycine The Opportunity To Produce the Hour Angle But They DECLINED.


By 1939/40 The A-11 and a-17 produced independently by companies who created and patented their own methods of hacking.

BULOVA, Elgin Waltham made mainly military watches.
Glycine would have to design their own hacking mechanism.

ALTHOUGH FOR GLYCINE ONLY A PATENT FREE HACKING METHOD WAS LEFT TO
TACKLE. THE A-11 AND A-17 METHOD OF HACKING WAS PATENT. BULOVA, ELGIN
WALTHAM WERE ABLE TO MAKE ONLY MILITARY WATCHES. GLYCINE WOULD HAVE
TO DESIGN THEIR OWN HACKING MECHANISM. IT WOULD TAKE 18 YEARS.

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ROLEX WWII AND THE BRITISH

By the start of WWII, Rolex had acquired so much prestige that Royal Air
Force pilots bought them to replace their inferior Gov Issued watches. The
result was that Captured officers sent to POW camps had their watches
confiscated with intent. When Hans Wilsdorf learned of these facts, he offered
to replace each and every Rolex to every individual Officer who could write
and explain the circumstances of their loss and inform him what camp they
were in. As a result of this program, an estimated 3,000 Rolex watches were
ordered by British officers in the Oflag (prison camp for officers) VII B POW
camp in Bavaria alone. This had the effect of raising the morale among the
allied POWs. American servicemen who heard about this program when
stationed in Europe opened the door to America for Rolex after the war.

SPEED KING
RESTORED

Rolex 3525 Oyster chronograph
RESTORED

ROLEX PLAYED A PROMINENT ROLE IN THE LEGENDARY “GREAT ESCAPE”.

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THE FIRST US GOV MILITARY ISSUE PILOT WATCH
THE A-7 WAS THE FIRST ISSUED MILITARY PILOTS WATCH
MID 1930
The Vintage USACC A-7 AVIGNATION was produced utilizing a Longines T986 silver cased pocket watch/stop watch combine. The watch had a standard industry button in center of crown for the timing device. You would press once to start, again to stop, once more to return the seconds hand to TDC. It was, in fact, the first signed US government issued pilots watch I am aware of, an A-7 designation and “USARMY Ac” and the word “AVIGNATION” for aviation and navigation on case back. Year mid 1930.

1939 Gallet Flight Officer

A Gallet timepiece of particular renown was the Flight Officer time zone chronograph. Commissioned by Senator Harry S. Truman in 1939 for pilots of the United States Army Air Forces.

The Flight Officer (a.k.a. Flying Officer) had a rotating 12 hour bezel and the
names of 48 major world cities printed on the periphery of the dial (face). These features made it possible to calculate changes in the time as an aviator flew across lines of longitude.

Besides being the first time zone calculating wristwatch, the Flight Officer was one of the world’s first wrist chronographs to be housed in a water resistant case.

Truman wore a Gallet Flight Officer during his terms as 33rd president (1945–1953).

POCKET WATCH TIMER COMBINATIONS
USA FRANCE ITALY GERMANY EAST EUROPE JAPAN
1935 – 1945

LEONIDAS  HAMILTON  HAMILTON / ELGIN
OMEGA  SEIKOSHA  SEIKOSHA
BREITLING  Longines  HAMILTON / ELGIN
MINERVA  ALPINA  JUNGHANS

MILITARY PILOTS POCKET WATCHES/TIMER COMBINATIONS
THE CROWN/BALE WERE REMOVED FROM PHOTOS

I JUST CUT THE FACES TO UTILIZE LESS SPACE ROOM
ALL OF THE ABOVE HAVE CROWS AND AT LEAST ONE PUSHER
SPECIAL
THE GERMAN JUNGHANS HAS SUB SECONDS AND SWEEPS.
THE GERMAN ALPINA HAS DUAL REGISTERS
THE OMEGA IS AN OVERSIZE WRIST WITH DUAL BUTTONS/PUSHERS & CROWN
THE WHITE DIAL SEIKOSHA RESTORED BY ROCK IS A LONGINES
GOOGLE : GOLDSMITHWORKS JAPAN CHRONOGRAPH NAVY AIR

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1940/45 A-11 & 1950 TRUE HACKING PILOT WATCH

A-11 FIRST HACKING PILOT WATCH. PULLING CROWN STOPS WATCH
ALSO USED FOR GROUND OPERATIONS – WITH AND WITHOUT RADIUM
A-17 ADDED 24 HOURS DIFFERENT RADIUM HANDS, RADIUM NUMBERS

RESTORED BY ROCK

Stop Watches Made From Late 1800 To Present Day.

THE A-11 AND A-17 ONLY STOPPED WHEN CROWN WAS PULLED AND STARTED WHEN PUSHED BACK IN.

The Watch Is Wound. The Button/Crown Is IN Pushed In POSITION.

YOU WAIT TILL SECOND HAND IS AT TDC [12] AND PULL CROWN

IF YOU ARE WITH OTHER PILOTS NAVIGATORS YOU ALL DO THIS.

THEN YOU ZULU, OR SET WATCH TO TIME THEN EVERY ONE PUSHES THEIR CROWNS BACK IN THAT WAY ALL WATCHES ARE TIMED EXACT


Pressing Crown IN/Down Releases The Lever And Time Restarts.

On Stop Watches/Timers An Additional Push Makes The Second Timing Hand Return To Top Dead Center. Most Timers Have Since Late 1800 Added Additional Buttons Controlling Mechanisms.

A-8 Jitterbug 10 SEC
Military Air Corp Navigation Timer

Only Timers Such As The WWII A-8 Navigation 10Sec Timer, That Oscillate At Such Incredible Speed, CANNOT HAVE THEIR BALANCE STOPPED WHILE OPERATING.

Any Abrupt Stoppage Could Damage The Staff/Balance Are Without A Hacking Mechanism.

INSTEAD, THE METHOD OF HACK/STOP IS FREEING HANDS FROM MECHANISM.

SO, These Timers Do Not Have Hacking Levers YET Are Hi Frequency Timing Devices, their BALANCE IS Revolving Back And Forth At Thousands Of Beats Per Second. Stopping These Would Break the Balance.

BUT THEY ARE HACKING. THE FACT IS PUSHING CROWN DISENDGES HANDS FROM MECHANISM ALLOWING RETURN TO TDC. WHILE WATCH CONTINUES TO RUN ALLOWING REPEATED TIMING. 10 SEC IS THE FASTEST/PRECISE MILITARY TIMER.
The Elgin And Waltham A-8 USA Military 10 Second Navigation Timers Are The Extreme Few That Have 15 Jewels Compared With Other High End Timers Including The Gallat Co. Top End Have 7 Jewels top. The A-8 Was Named The Jitterbug Due To The Loud Chirping Clicking Sound Of The Balance Spinning At Tens Of Thousands Of Beats Per Hour

With most timers, you can stop the second or counter hand at any time and return it to top dead center. On the a-11, IT ONLY STOPS WERE IT IS, YOU HAD TO STOP WHEN SECOND HAND IS TDC

When you pull the crown the watch stops enabling you to time it perfect. Now, you push crown in when it is at correct time w/center second had at twelve, SET TIME Then push the crown. You can
Now be on the same time as the entire squadron. Also you now can time an event. While not like the a-7, it was the most advanced all around military watch.

Once more: The A-11/A-17, as well as watches made for the Vietnam war, the action began by pulling the crown, which then activates the hack lever stopping the balance. This hacking ability of allowed one to set exact time, to time an event, and, most importantly, allowed a group of fliers and navigators, ground forces, along with commanders on the ground or in far off command posts, to all have exact time.

Yes, to all set their time pieces exactly, a critical important fact is that these hacking watches did not have a fly back mechanism. Recall, a fly back mechanism is the device that causes the second hand to return to tdc [top dead center under 12/24] when the watch is running. Like that of chronographs and pocket stop watches.

So, hacking the a-11/17 did not move the second hand to top dead center, rather, it simply shut it down so one could time their watches. So, you would wait until the second hand was at tdc-under 12 to pull the crown freezing time with second hand at 12. Then set time.

groups of pilots/navigators/special ops/ground forces could all “Zulu” their watches when readying for their mission,

A COMMANDER ISSUES A ZULU COMMAND TO PILOTS & NAVIGATORS
[B-52 CREWS READY FOR MISSION Utapao Air Base Thailand During The Vietnam War]

THE GLYCINE AIRMAN
A TRUE R24HR PILOTS WATCH WITH HACK FEATURE
THE FIRST TO UTILIZE ALL THE FEATURES OF PRECEDING TIMING DEVICES

IN MY BOOK, THIS WATCH IS THE #2 ABSOLUTE BEST PILOT/MILITARY WATCH EVER MADE.

THE HACKING MECHANISM IS A GLYCINE INVENTION. PULL CROWN AND A HACKING WIRE COMES THROUGH THE 12 TDC, STOPPING SECOND HAND AND WATCH AT THE 12/TDC.

IF YOU INVEST BE SURE HACKING MECHANISM IS THERE AND WORKS. WHEN YOU PULL THE CROWN THE WATCH HACKS AT 12/24 HR POSITION

PILOTS DURING THE KOREAN WAR LOVED THIS TIME PIECE AND WERE THE FIRST CUSTOMERS. NOTE THE JAPANESE AD.

First glycine airman am/pm is scarce, no hack mechanism, no hand tail-end on minute or hour hand,red numbered date wheel. The 1953-1960 airmen utilized a 23 jewels,felsa 692 Bidynator with wheels modified for true 24 hour time. The early airmen with the felsa 692 Bidynator movement had hour markers at 12 and 24 o’clock in the shape of triangles indicating a felsa caliber, while those with dots indicate schild caliber.

24 HOUR MOVEMENT IS IDENTICAL WITH THOSE USED IN HELBROS REAL 24HR EXCEPTING THE ADDITION OF AUTOMATIC FEATURES

In 1954-56 the second model with a tail end minute hand [the minute hand had an extension] and the date magnifier was released. In 1957-58, a modification was made to where the tail end was placed, it was removed from minute hand and placed on the hour hand. note 3- the hand tail is a stationary gmt hand. By utilizing the 24 hour bezel, you can set the time
of, say, California while main time is New York. You simply set the tail end of hour hand to bezel time. AM or PM. One o’clock New York, the view the hour tail end for second zone

LATE 1950 THROUGH 1969
OMEGA

OMEGA PROFESSIONAL
RESTORED BY ROCK

THE ROLEX GMT ALSO WAS A FAVORITE

THE BREITLING NAVITIMER WAS ANOTHER FAVORITE

1969 ZODIAC AEROSPACE
TRUE 24HR GMT
20 ATM DIVER
600 FEET
Ca: 75 A
This is the best over all vintage military pilot watch ever made.

It has regular 12 x 2 timing. Reading like normal watch.

Then it has a GMT true 24 hour hour hand.

You can time two zones by use of bezel or memory.

Read 24 hour time as well as 12 x 2 time.

Day and night bezel in 24 hour time can be used for elapsed time, dive time, 24 hour GMT time, and for a host of calculations.

20 ATM, Hacking lever automatic, 70/72 Zodiac Sea Wolf movement.

Restored by rock

As any one knows, I love restoring the Vietnam era Zodiac Sea Wolf. The above time piece is a total restored Zodiac Aerospace GMT 24 hour. This beauty hacks and has a 24Hr hand. That means it keeps 12 hour x 2 and 24Hr time at the same time. The bezel is divided into true 24Hrs.

The Zodiac Aerospace GMT came out after the 1968 Tet offensive in Vietnam. From 1969 through 1971, more operations were carried out in Vietnam than ever before. Due to the fact we were drawing down. Beginning in 1969, the PX/BX and r&r destinations offered both the popular sea wolf and the Zodiac Aerospace GMT 24hr hacking dive watch. With two time zones a soldier/officer would set the normal 12 hour per revolution time to their home/USA time and use the 24 hour hand with military time for in country.
The red GMT hour hand is a true 24 hour hand. It works in unison with the regular hour hand, but will count an entire 24 hours each single revolution. While the main hour hand makes two revolutions every 24 hrs., when overhauled, the hands are placed back of the dial after the date jumps all pointed to tdc. [tdc = dial #12 marker bezel 24 hr marker]

The red GMT hour hand points to tdc, you then place the standard hour hand at tdc, the minute hand tdc and seconds tdc. The red GMT hand will turn a full 24 hours in one revolution. Pulling crown hacks [stops] watch. Date is set by changing 21-24hr. Back to 21 then past 24, repeat, repeat....

So: regular hour and minute hands operate in normal fashion. You set the time to whatever zone you are in or an second GMT zone.

The red illuminated tip GMT true 24 hour hand is for a second time zone and/or to keep track of your local time zone in military time.

The bezel. The Zodiac Sea Wolf dive watch bezel is for elapsed time while under water. The Zodiac Aerospace GMT 24hr bezel is for secondary time zone or an additional 24 hr time zone. And can be used for elapsed time for diving.

When setting up a second zone, the simple turning of the 24 hour bezel to the correct position for the zone allows you to view it to see what time it is where you are and, say, California. This offers the ability to adjust the bezel to any other time zone, forward or backward =if your on east coast and also want west coast time turn bezel to three hours backwards. No guessing is required. The red hand will be 3 hours behind-so, the bezel and red GMT hand are for your second zone or to have both regular time and 24hr military time you can turn bezel and for elapsed timing for diving.

The red hand cannot be turned or adjusted on its own.

The illumination is 3 times the amount it was originally. Hands were illuminated, including the tip of seconds. The red true 24 hour hand in red color is original. Only the illumination was reapplied. I took liberty to make the silver sweeps seconds hand red to see better. Look, this time piece is a rare product. It has 12 hours hands and a 24 hour hand, a bezel with 24 hours that can be set to read a second GMT zone. Thus, this time piece does not rely on its vintage fact alone.