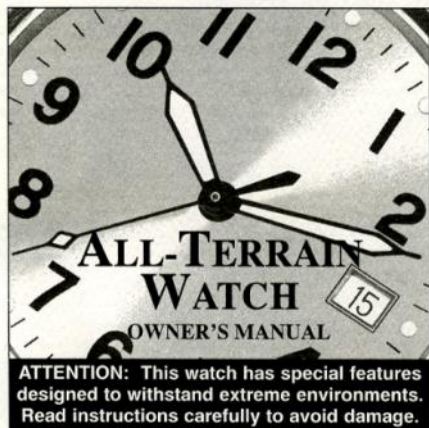


SERVICES AVAILABLE	COST*
Battery change	\$3.00 _____
Crystal replacement	\$15.00 _____
Crown replacement	\$7.50 _____
New Band (watch need not be returned)	
color/style/size _____	
Leather, leather/canvas	\$9.00 _____
Nylon	\$4.00 _____
Pocket watch fob	\$12.00 _____
Metal	\$25.00 _____
Shipping and handling:	\$8.00 _____
*Prices subject to change	TOTAL: _____

Return your watch for service to:  
 Watch Repair Center  
 43-06 58th Street, Woodside, NY 11377  
 (718) 899-5115

☎ 988



**CONGRATULATIONS!** You now possess one of the world's most reliable timepieces, hand-crafted from solid 304 stainless steel. Your watch is unique in that it is engineered for superb resistance to water, thermal changes and physical shock—the principal nemeses of the over 250-year-old art of watchmaking. This manual gives information on how to operate your watch, as well as detailed technical specifications:

Quartz Movement	p. 1	Depth Ratings	p. 6
Forging Process	p. 2	Tritium Paint*	p. 7
Setting Time & Date	p. 3	Titanium Carbide*	p. 8
Changing Strap*	p. 4	Steel Bracelet*	p. 9
Screw-locked Crown*	p. 5	Warranty	p. 9
Rotating Bezel*	p. 5	Repairs	p. 10

\*Optional features present on select models

**QUARTZ MOVEMENTS** derive their amazing accuracy from a tiny quartz crystal oscillating at about 32,000 cycles per second. The rapid electrical signal leaving the crystal is stepped-down by a microprocessor which switches an electric motor on and off once a second. The motor moves the second hand forward, and, through a conventional gear train, the minute and hour hand.

1

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1. Watch case is cut from solid 304 stainless steel.



2. heated in a 2000°F inferno.

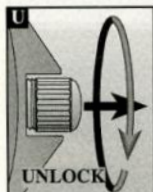


3. and hammered into shape like a fine blade.



4. Skilled craftsmen hand-finish the case in a 100-step process. 2

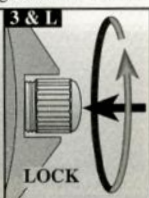
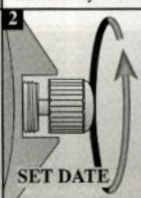
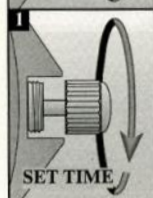
## SETTING THE TIME & DATE



**NOTE:** If your watch has an alarm, chronograph or tide movement, refer to the supplementary instruction card.

**U.** If your watch has a screw-locked crown: Unscrew the crown counter-clockwise (towards you) until loose.

1. Pull the crown away from the watch until the second hand stops. Advance the time by turning the crown counter-



clockwise. This will move the hands in a clockwise direction. Rotate the hands until the date window advances one day (this will confirm that the watch reads midnight, or 12:00 AM), then continue to rotate hands to correct time.

2. Push crown gently towards the watch until you feel a click. Turn crown clockwise to set date.

3. After time and date are set, push crown towards watch.

**L.** If your watch has a screw-locked crown: Screw the crown down clockwise as you push it towards the watch, taking care not to strip the tiny threads.

**IMPORTANT:** Your watch is not watertight unless crown is completely screwed down

**STRAP CHANGING:** To remove a leather strap, insert the "V" shaped end of your strap changing tool between the strap and the case. This will allow you to push the springbar down into the strap, and you will be able to pull the strap off. Follow the same steps to put a strap on.

STRAP CHANGING  
TOOL

V-shaped strap removal wedge 4

## Special Information for Divers

**THE SCREW-LOCKED CROWN** on your watch creates a threaded seal against moisture and protects the delicate movement stem from shock. Identical metals are used on both the crown and tube threads to ensure a tight fit that won't work loose during thermal expansion.



**THE ROTATING BEZEL** around the crystal of a dive-style watch rotates independently of a watch case, and can be used as a timer. Because it may be used to time SCUBA dives, the bezel is ratcheted to rotate only counterclockwise; false air-time cannot accidentally be added on. **To use the bezel**, turn the pointer until it is aligned with the minute hand. Elapsed time is then read by comparing the minute hand to the pointer. In the photo above, 9 minutes have elapsed since the bezel was set.

## DEPTH RATINGS ON WATCHES

can be misleading. Most watches are tested in a static pressure chamber immediately upon assembly. This type of testing does not account for how a watch will perform on a user's wrist, where corrosion, temperature change and physical shock are important factors.

Your watch is specially designed to remain watertight even during rigorous use. We recommend that a watch have at least a 50m (150') rating for swimming, and 150m (500') for SCUBA diving. **IMPORTANT: Immerse watch in fresh water and shake vigorously after any contact with salt water.**



50 m (150')



100 m (330')



150 m (500')

The Gamma Tide Watch displays time of day, day of month, height of tide, phase of the moon, and tide amplitude as follows:

Day of Month = top center window @ 12:00  
 Height of Tide = upper right display @ 2:00  
 Moon Phase = bottom center display @ 6:00  
 Tide Amplitude = upper left display @ 10:00

**The Tide Height Display** makes one rotation every 12 hours and 25 minutes, corresponding to one semi-diurnal tide cycle. If your area subject to diurnal tides (tides in which high tide occurs once in 24 hours), take this into consideration.

**The Tide Amplitude Display** makes one rotation every 14 3/4 days, corresponding to the position of the moon (see chart).

**Setting Time, Moon Phase and Tide Amplitude:** 1. Unscrew the crown counterclockwise (top towards you) until it is loose, then pull the crown away from the watch until the second hand stops.

2. Consult a calendar, almanac or tide table as to the phase of the moon.  
 3. Turning the crown counterclockwise (top towards you) to rotate the hands of the watch. As you rotate the hands, the position of the moon in the moon phase window will change slowly. Continue to rotate the hands until the correct moon phase is displayed (this may take as many as 30 complete revolutions of the hour hand).



Tide © 988

4. Continue to rotate hands to the correct time. **NOTE:** The day of month will change with every two revolutions of the hour hand. The revolution after the day changes represents the AM, the following revolution represents the PM. Set the time to the correct meridian.

**Setting Day of Month:** 5. From the outermost crown position, push the crown gently towards the watch. You will feel a slight "click" and the second hand will begin to turn.

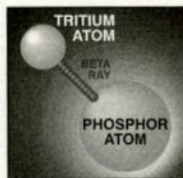
6. Turn the crown clockwise (top away from you) until the correct day of the month is displayed in the top window.

**Setting Tide Height:** 7. In the same crown position used to set the day of the month, turn crown counterclockwise (top towards you) to rotate Tide Height display.

8. Consult the appropriate almanac or tide tables for your area to determine the correct tide height, and set the display accordingly.

**Secure the Crown!** 9. After all the setting operations are complete, push the crown towards the watch while screwing it clockwise (top away from you) until it is tight against the watch. This will ensure that the crown is correctly sealed so that water cannot enter the watch.

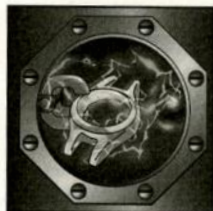
**NOTE:** Tides are irregular and every geographic location has a unique tide cycle. **THIS WATCH IS NOT A SUBSTITUTE FOR TIDE TABLES.**



**TRITIUM PAINT** is used to make watch hands glow continuously, regardless of lighting conditions. Tritium paint consists of a paint base, a phosphor (glowing pigment), and a compound containing tritium (hydrogen-3). The tritium powers the phosphor when no light source is available. Some facts about tritium:

- **Tritium hands are not dangerous to the wearer of the watch.** Tritium does not emit gamma rays or any other harmful form of light. It does emit electrons that are absorbed by any matter they hit. It is highly unlikely that these electrons could escape the paint itself, and they cannot cross the watch crystal. Tritium is generally a health risk only when it is ingested or inhaled.
- **The environmental impact of tritium is debatable.** While tritium can cause damage to wildlife if disposed of improperly, so can the chemicals found in watch batteries. As a light source for watches, tritium uses no electric power. Electroluminescent dials and LED's significantly reduce battery life, often by half. Tritium can be considered environmentally friendly because it reduces the potential for waste products.

• **Tritium does not glow.** Only the phosphor, or glowing pigment, glows. Visible or ultraviolet light can make the phosphor glow brilliantly for over an hour in the dark. The solid tritium compound, by comparison, causes the phosphor to glow very dimly, yet continuously. Most people cannot even see this glow until their pupils are fully dilated.

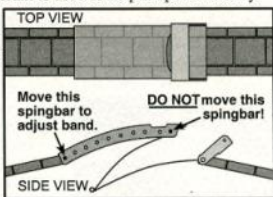


**TITANIUM CARBIDE CERAMIC** is bonded to the exterior of gun metal finished watches by arc-plasma molecular epitaxy. The steel watch case or bracelet components to be clad are placed in a 450°C chamber filled with acetylene gas. An electric arc is then struck between the component and a titanium electrode. The arc vaporizes and ionizes the titanium and carbon atoms, which are in turn deposited as a lattice of titanium carbide crystal on the surface of the steel. The result: a watch harder than a sapphire.

**FORGED STEEL BRACELET:** The clasp is designed to remain locked during rigorous use, so it is very tight when new. A non-greasy white lubricant is used to help it open smoothly.

**Adjusting the Fit:**

1. Use a paper clip, toothpick or thumb tack to carefully push the link-side springbar out of its present hole.
2. Move this springbar into a hole closer to the safety clasp to make the bracelet smaller.



**CARE & MAINTENANCE:** Your watch is guaranteed to be free of defects in materials and workmanship. As with any quality timepiece, your watch will require maintenance to ensure a long life of service. Our repair shop can replace your watch battery after its two year life, your crystal when it becomes scratched or broken, or your watch bracelet when it becomes worn with time. **We will check every o-ring seal on your watch at the time of maintenance, and replace them if necessary.** Additional repairs are on the return form.

CUSTOMER INFORMATION

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
**We cannot ship to P.O. boxes**

City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_

Pack your watch carefully in a padded box or envelope and insure it prior to mailing. We cannot return gift boxes. Please include check or money order. Sorry, we cannot bill.

AMOUNT ENCLOSED \$ \_\_\_\_\_

