

GEMORO[®] TESTEROSSA

SIMULTANEOUS DIAMOND,
MOISSANITE & WHITE
SAPPHIRE TESTER

WITH ADVANCED PATENTED
UV-F1 IDENTIFICATION
TECHNOLOGY[®]



READ BEFORE USING

Some moissanite, including the Forever One or “F1” moissanite that was introduced in late 2015, will incorrectly be identified as diamond when tested on a traditional combination electrical and thermal conductivity tester.

The **GEMORO TESTEROSSA** uses **PATENTED UV-F1 TECHNOLOGY®**, and is specifically calibrated to identify this faint electrical conductivity property.

Be aware that BODY OIL is also electrically conductive. Due to the tester’s enhanced sensitivity for electrical conductivity, dirty diamonds may potentially test as moissanite with this device. To avoid false/positive readings on dirty diamonds, **ALWAYS CLEAN THE STONE** by simply wiping the body oil off on the provided **STONE TESTING CLOTH** prior to performing a test. Periodically, also clean any accumulated body oil off the probe tip by gently rubbing it on a piece of uncoated printer or copy paper - SEE MANUAL.



Scan this QR code for our **TESTEROSSA** instructional video.

NATURAL FANCY COLOR DIAMONDS & TREATED FANCY COLOR DIAMONDS

Because some natural fancy color diamonds and some treated fancy color diamonds are electrically conductive, the **GEMORO TESTEROSSA** should ideally be used on colorless stones only. This limitation applies to all testers that utilize thermal and electrical conductivity methods for testing the authenticity of the stone.

LAB GROWN DIAMONDS

HPHT lab grown diamonds may test as moissanite or diamond (since they are diamonds) when using this device. HPHT lab grown diamonds may have trace amounts of the boron that is used in the growing process, which like moissanite is also electrically conductive. These diamonds may also set off the testers metal alert feature.

It is recommended to always also inspect the girdle of any questionable stone to look for the laser inscription noting the lab report number with an LG prefix, identifying it as a lab grown diamond.

NEED HELP? Call **GEMORO** at **800.527.0719** for immediate assistance.

The **GEMORO TESTEROSSA** is the ultimate tester for diamond fraud protection! The **TESTEROSSA** features exclusive **UV-F1 TECHNOLOGY®** and is capable of identifying the widest range of the electrically conductive moissanite material available, including the super-low electrically conductive Forever One moissanite.

OPERATING PROCEDURE & OWNERS MANUAL

Congratulations on your purchase of the **TESTEROSSA** from **GEMORO** Superior Instruments, the most trusted name in gemological instrumentation for the jewelry industry. You've made a great choice, because the **TESTEROSSA** is considered the world's best, most accurate and durable option amongst diamond testing instruments designed to assist you in separating diamonds (natural/lab) from moissanite, white sapphire, CZ, and other known diamond simulants with confidence.

IMPORTANT: PLEASE BE CERTAIN TO READ THE FOLLOWING COMPLETELY BEFORE USING.

THERMAL CONDUCTIVITY & ELECTRICAL CONDUCTIVITY

TESTING METHODS: The recognized method for separating diamonds from all known diamond simulants (except moissanites and lab grown or synthetic diamonds) is the thermal conductivity test. The thermal conductivity test works consistently well because the thermal (or heat) conductivity property of a diamond is significantly greater than all other gemstones (except moissanites

and lab grown diamonds). White sapphires are also thermally conductive, yet not as conductive as diamonds or moissanites.

The recognized, most practical way for separating the vast majority of moissanite gemstones from diamonds is the electrical conductivity test; since moissanite conducts electricity, while diamonds, as well as other known diamond simulants do not. It should be noted that while moissanite gemstones are electrically conductive, in some there might only be a small and varying degree of electrical conductivity.

With the advanced **PATENTED UV-F1 TECHNOLOGY®** utilized in the **TESTEROSSA**, you can identify the widest range of electrically conductive moissanite gemstones available, including the super-low electrically conductive Forever One moissanite.

Other than some rare natural and natural fancy color diamonds, as well as some lab grown or synthetic diamonds (HPHT grown diamonds), natural white diamonds do not conduct electricity. If a white stone does not conduct heat or electricity, it will be determined to be more than likely a common CZ, or another diamond simulant. **Because body oil is electrically conductive and the stone being tested may not be clean, any test result that indicates moissanite, especially on smaller size stones that haven't been cleaned, should be suspect. They should then be cleaned with the GEMORO Stone Testing Cloth (or a dry and clean microfiber or cotton cloth or paper towel), and then retested. DUE TO THE ELECTRICAL CONDUCTIVITY PROPERTY FOUND IN THE BORON USED IN THE PRODUCTION**

OF HPHT LAB GROWN DIAMONDS, WHEN THE TESTEROSSA TESTS THESE STONES THEY MAY TEST AS EITHER MOISSANITE OR THE METAL ALERT FEATURE MAY BE ACTIVATED.

The **GEMORO TESTEROSSA** utilizes both the thermal conductivity and electrical conductivity testing methods in one seemingly simultaneous test, and it will quickly help in identifying and separating the stone in question. The **TESTEROSSA** is an advanced, technologically based tool and it should be used as a helpful device only. The **TESTEROSSA** is not meant to replace the trained gemologist.

NATURAL FANCY COLOR DIAMONDS & TREATED FANCY COLOR DIAMONDS

Because some natural fancy color diamonds and some treated fancy color diamonds are electrically conductive, the **GEMORO TESTEROSSA** should ideally be used when testing colorless stones only. This limitation applies to all testers that utilize thermal and electrical conductivity methods for testing the authenticity of the stone.

IMPORTANT DISCLAIMER: The **TESTEROSSA** is a helpful screening instrument that by design should be used as a quick method for helping to identify diamond, moissanite, and white sapphire. The **TESTEROSSA** should not be used as the final method for determining the authenticity or identity of the stone being tested. The final determination of the identity of any stone, whether genuine or not, should only be made by a trained gemologist. Neither **GEMORO** nor any of its affiliates, dealers, or distributors shall be held liable for any loss and/or

damages associated with the use of the **TESTEROSSA**. No warranties exist with respect to the **TESTEROSSA** or its use other than those expressly contained herein. All other warranties of any kind or character whatsoever, whether expressed or implied, including warranties of merchantability or fitness for a particular purpose, are hereby disclaimed and are excluded from the warranties hereunder. In the event that a claim is made with respect to the **TESTEROSSA** or its use, the maximum liability of **GEMORO**, and its affiliates, dealers, and distributors shall be the amount paid for the **TESTEROSSA**.

PLEASE READ BEFORE USING THE PROVIDED NiMH RECHARGEABLE BATTERIES: Before using the NiMH rechargeable batteries that have been provided with your tester, the batteries should be fully charged as indicated by the small round LED indicator next to the power button glowing green when the **TESTEROSSA** is plugged in. While the batteries are being charged, the tester may be used as desired while powered by the AC current.

CONDITIONS FOR IDEAL OPERATION

1. USE BATTERY POWER ONLY WHEN TESTING A STONE in order to optimize the **PATENTED UV-F1** moissanite detection technology.
2. The **TESTEROSSA** should be used in the following environmental conditions. Both the tester and the stone being tested must be the same temperature. By not following these instructions you risk compromising the accuracy of the test.
 - a. Temperature: 65°F-80°F (18°C-27°C)
 - b. Air Relative Humidity: 45%-75%

3. The stone being tested must be dry. If the surface of the stone is wet or has any type of surface moisture it may not test correctly.

4. The stone being tested must be clean. Aside from obvious visible dirt that may be present on the stone, there may also be hand, body oil or other contaminants on the stones surface that may not be visible and which could impact the accuracy of the test. **ALWAYS BE CERTAIN TO CLEAN THE STONE** being tested with an ultrasonic or steamer cleaner or other appropriate means, and then thoroughly dry it and/or remove any cleaning chemicals remaining on the stone prior to testing. A **GEMORO STONE TESTING CLOTH** has been provided with each **TESTEROSSA** and for convenience it should be used to wipe off any body oil from the stones surface prior to testing.

5. It is imperative that the probe tip be cleaned regularly or ideally prior to performing a test. Please be aware that there may be body oil or other contaminants on the probe tip that may not be visible, which could impact the accuracy of the test. To clean the probe tip, take a piece of uncoated white printer or copy paper and lay it on a table, counter or other flat surface. Place the tester at a 90-degree angle against the paper with the probe tip lightly touching it. Apply enough pressure to gently depress the retractable probe tip slightly inside the housing, while carefully rubbing the probe tip on the paper in a forward motion a few times to clean it. Repeat this process routinely or prior to testing each time to ensure the cleanliness of the probe tip.

6. Always allow the stone being tested to cool off for 5-10 seconds prior to retesting. Blowing on the stone is recommended and will speed up this process. Please be aware that if while testing a stone the **TESTEROSSA** light pipe turns pink, unless it is a white sapphire or sapphire watch crystal, odds are that the stone has been overheated from prolonged exposure to the probe tip and, therefore, you must wait for the stone to cool off prior to retesting.

TESTEROSSA FEATURES

1. Helps to identify diamonds, moissanites, and white sapphires, including genuine sapphire watch crystals. The test results are shown via its **PATENTED** color-coded light pipe and simultaneously it is also spoken verbally in one of nine different **PATENTED** user-programmable languages (English, Spanish, German, Italian, French, Japanese, Mandarin Chinese, Russian, and Arabic). Instead of talking, alternatively the tester may be programmed to provide unique sounds when identifying the various gemstones and other alert features.

2. Quickly assists with testing most any size diamond and moissanite, including the most difficult to identify, super-low electrically conductivity Forever One moissanite, whether mounted or loose.

3. The sleek and ergonomic shape comfortably rests in and on your hand when properly held, and the tester has **PATENTED** intuitive finger grip pads for increased user-friendliness and ease of handling.

4. The LED illuminator and UV fluorescence detector are positioned under the probe tip. The LED illuminator is a super bright LED that illuminates the stone being tested and, since it is a UV LED, it also helps to identify fluorescence in diamonds.

5. The tester is equipped with a retractable probe tip designed to protect the probe tip if excessive force is used while testing or if it is accidentally dropped.

6. The tester housing is made from extremely durable polycarbonate and has a molded rubber base for increased impact resistance.

7. Powered by (3) supplied 1.5V AAA NiMH rechargeable batteries. The rechargeable batteries may be substituted with AAA alkaline batteries if a suitable power outlet is unavailable to recharge the NiMH batteries.

8. The tester is also designed to have its batteries charged with the **TESTEROSSA's PATENTED GEMORO ULTRADOCK 3** charging station accessory, which is included with the tester.

9. Includes a **GEMORO** protective carbon fiber style carrying case, aluminum loose stone holder, **STONE TESTING CLOTH** for removing body oil, as well as (3) user-replaceable AAA NiMH rechargeable batteries, a universal multi-voltage 100V-240V AC adapter/charger cube, with premium micro-USB C cord.

It also comes with a handy **PATENTED GEMORO TEST STONE MAGNIFIER** attachment, which when clipped onto the tester's tip cone area allows the user to more easily see and test small diamonds without accidentally touching the setting or prongs.

10. The tester has an auto-off function to preserve the battery life and it will automatically turn itself off after a period of 5 minutes of non-use. After powering down, if you wish to resume using the **TESTEROSSA**, simply touch the tester's power button and within seconds the tester will turn itself back on again.

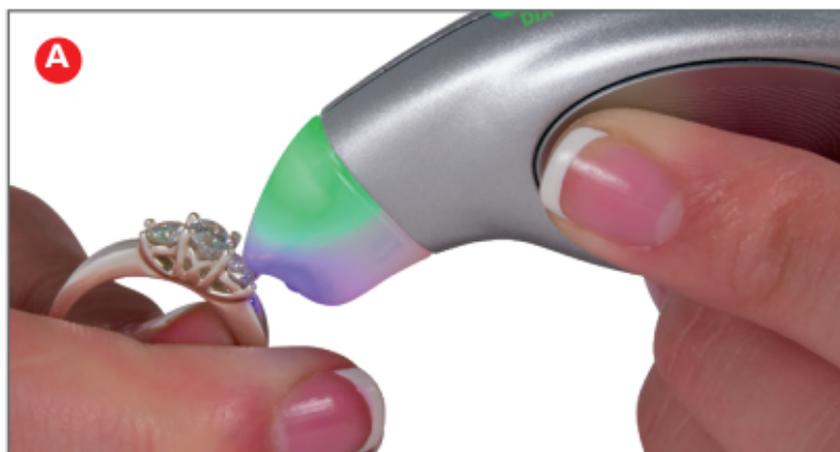
11. Glowing LED Light Pipe / Probe Tip Cone Indicator:

GREEN = Diamond **A**

BLUE = Moissanite **B**

PINK = Sapphire **C**

RED = Metal Alert **D**



Diamond



Moissanite



Sapphire



Metal Alert

12. Round LED indicator **E**

RED = Low Batteries

YELLOW = Charging Batteries

GREEN = Fully Charged Batteries

13. Bright blue LED illuminated power button.

14. Pocket-sized and portable.

15. Simple to operate.



Battery LED Indicator

SPECIFICATIONS

- Working Voltage: DC 1.2V (3) x AAA NiMH, DC 1.5V, (3) x AAA alkaline batteries or its universal voltage 100V-240V AC adapter cube.
- Probe Tip Warm-Up Time: Approximately 25 seconds.
- Auto-Off Time: Approximately 5 minutes of non-use.
- NiMH and Alkaline Battery Working Time: Approximately two hours of continuous use.
- Working Temperature: 65°F-80°F (18°C-27°C).
- Air Relative Humidity: 45%-75%.
- Net Weight: Approximately 100g (including batteries).

CAUTION:

- DO NOT disassemble the **TESTEROSSA** other than to replace the batteries or the warranty will become void.
- UV EYE HAZARD - Avoid looking directly into the UV LED.

OPERATION

1. NiMH Battery Installation: Install the (3) supplied NiMH rechargeable batteries by first removing the battery compartment door located on the end of the **TESTEROSSA** by using your thumb to slide the textured area down and in the direction of the arrow **F**. Then correctly insert the NiMH batteries into the battery compartment. The correct polarity positioning for each battery is indicated on the side of the battery compartment wall, which shows the positive (+) and negative (-) polarity **G**. Always be certain that the batteries are correctly positioned in the battery compartment holder, or the tester will not power on. Then carefully replace the battery compartment door. To increase the life of the NiMH rechargeable batteries, fully charge the batteries prior to use.

If you wish to replace the NiMH batteries with high quality alkaline batteries, follow the same procedure as outlined above, after first removing the NiMH batteries and then inserting alkaline batteries.



Tester Battery Compartment



Battery Polarity

2. The **TESTEROSSA's** NiMH rechargeable batteries may be charged by placing the tester in its included **ULTRADOCK 3** battery charging station with the micro-USB C power cord plugged into the rear of the charging station or by plugging its micro-USB C power cord into the rear the tester and the USB C adapter cube directly into a wall outlet. Once the tester is connected to the AC adapter or the charging station, the tester will switch to its DC power mode. The tester's built-in Intelligent Charging Circuit "ICC" will automatically identify the type of batteries installed (NiMH rechargeable batteries or alkaline batteries). If alkaline batteries are installed, the circuit will automatically cut off the power supply to the batteries so that the alkaline batteries will not be recharged. If NiMH rechargeable batteries are installed, the batteries will be recharged and at the same time the tester may be used with the AC adapter.

3. To turn the **TESTEROSSA** ON, press the oval shaped power button located on the top center edge of the tester **H** and hold it down for approximately one second, then release the button. The power button's blue LED indicator

will begin flashing. The warm-up time is approximately 25 seconds. When it has fully warmed up, the flashing blue LED light will become solid. At this time the tester will say, “READY” or if in the ring tone setting, a bell will chime twice. You may now begin using the tester.

4. To turn the **TESTEROSSA** OFF, press the oval shaped power button once again **H** and hold it down for approximately one second, then release the button. The power button’s blue LED indicator will no longer be illuminated indicating it has been turned OFF. If the **TESTEROSSA** has been left on for a period of approximately 5 minutes without being used, it will automatically turn itself OFF and say, “POWER DOWN”.



Power Button

5. When using the **TESTEROSSA** for the first time, the factory setting is designed to indicate by default to the English-speaking mode. While in this mode it has the ability to identify and say “READY,” “DIAMOND”, “MOISSANITE”, “METAL ALERT”, and “POWER DOWN”. To change the indication, while the tester is powered on and the blue power switch is illuminated, press and hold the power button down until the indicator begins

scrolling through the various options. The options include English, Ring Tone (no voice), Spanish, German, Italian, French, Japanese, Mandarin Chinese, Russian, and Arabic. Once the desired indication has been found, remove your finger from the button. The **TESTEROSSA's** indicator will remain in that mode the next time the unit is powered up or until it is physically changed.

6. The **TESTEROSSA** is also equipped with a PATENTED color-coded light pipe and probe tip cone indicator. This line-of-sight colored indicator allows the user to easily see the test results while keeping their eyes on the stone being tested.

GREEN = Diamond

BLUE = Moissanite

PINK = Sapphire

RED = Metal Alert

7. **Prior to using the TESTEROSSA, be certain to REMOVE THE WHITE PROBE TIP CAP**  **at the front end of the tester that serves to protect the probe tip from accidentally being bent or broken.** The cap may be easily removed by simply applying a minimal amount of pressure to the top and bottom sides of the cap, as you hold it between your thumb and forefinger. Then gently pull it down, out and off. Always replace the cap when the **TESTEROSSA** is not in use.



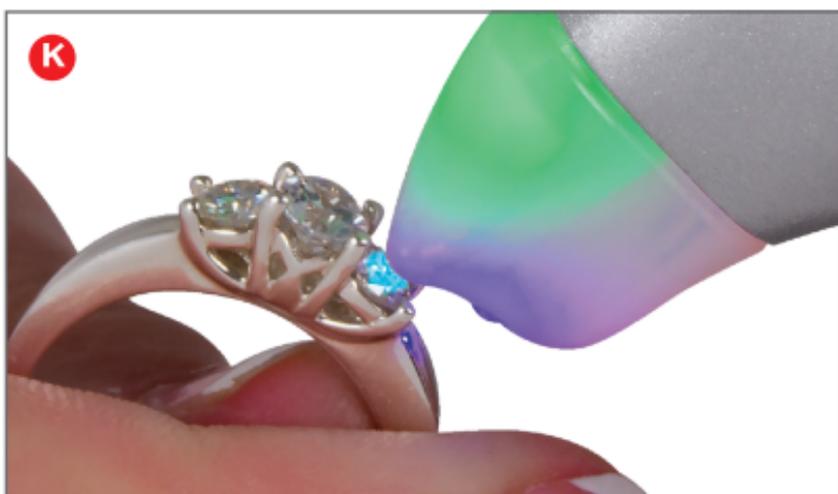
Probe Tip Cap

8. To properly hold the **TESTEROSSA**, it is important to grasp the tester similarly to how you'd hold a writing pen or pencil, but with your thumb and forefinger touching the **PATENTED** finger pads located on either side of the tester **J**. This will allow you to easily manipulate the tester and make the best contact with the stone being tested. While holding the tester, its ergonomic shape allows it to comfortably rest in and on the top of your hand. If you hold the tester without touching the finger pads, the metal alert feature will not function.



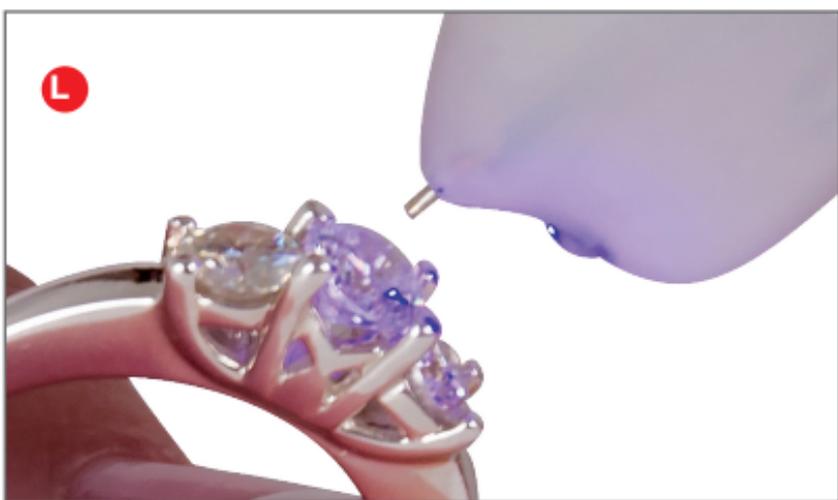
How To Properly Hold The Tester

9. The LED illuminator allows the user to easily see the stone being tested to confirm that only the stone is being tested and that the setting or prongs are not accidentally being touched. This LED is a special UV type **K** that may also be used to identify the fluorescence characteristic found in approximately 25-30% of all diamonds.



Fluorescing Stone

10. TESTING MOUNTED STONES: **With one hand, ALWAYS hold the ring or setting that contains the stone you wish to test and in your other hand hold the TESTEROSSA. NEVER TEST A RING WHILE PLACED IN A RING BOX OR IT MAY NOT TEST CORRECTLY.** Position the stone's table in front of the testers probe tip. Quickly, yet firmly touch the testers probe tip to the stone's table **L**, while being certain not to allow the probe tip to touch with the metal setting or prongs. While firmly depressing the retractable probe tip all the way in until you hear a click sound, touch the stone just long enough to allow the tester to indicate a reading (1 or 2 seconds) and then take the probe tip away from the stone. **Be aware that a stone that has been overheated by prolonged exposure to the probe, or from body heat due to wearing or the environment, may not test accurately.** Always allow the stone and setting a few seconds to cool off to room temperature before testing. Blowing on the stone will speed up this process.



TESTING A MOUNTED STONE

11. TESTING LOOSE STONES: Place the loose stone in the supplied aluminum loose stone testing plate positioned with the stone's culet pointing down into the recessed hole in the testing plate. **Then hold the testing plate steady with one hand, as this will also allow the electrical current to pass through your body, permitting the tester to function as designed and test properly.** While holding the **TESTEROSSA** in your other hand, firmly touch the probe tip to the loose stone's table until the test result is indicated **M**. **YOU MUST FOLLOW THIS PROCEDURE WHEN TESTING LOOSE STONES OR THE TESTER MAY NOT TEST CORRECTLY. DO NOT ATTEMPT TO TEST LOOSE STONES WHILE HOLDING THEM IN YOUR FINGERS OR THE TESTER MAY NOT TEST CORRECTLY.**



Testing Loose Stones With Testing Plate

12. The probe tip must be cleaned routinely to remove body oil and dirt while ensuring proper contact with the stone being tested. To clean the tip, take a piece of uncoated white printer or copy paper and lay it on a table or counter or other flat surface. Place the tester in a 90-degree angle against the paper with the probe tip lightly touching it. Apply enough pressure to gently depress the retractable probe tip slightly inside the

housing, while carefully rubbing the probe tip on the paper in a forward motion a few times to clean it. Repeat this process routinely or prior to testing each time to ensure the cleanliness of the probe tip.

13. USING THE **ULTRADOCK 3**: Place the charging station in a convenient location near where it will be used, such as on a desk, showcase or repair area counter. Take the testers micro-USB C power cord and plug it into the rear of the **ULTRADOCK 3**, while plugging the USB C into its AC power cube adapter. Plug the adapter into a convenient wall outlet. When the charging station is plugged in and has power, the diamond shaped indicator on the front end of the dock will remain glowing green. You may now simply place the **TESTEROSSA** in the charging stations cradle with its bottom edge facing down, and the rear of the **TESTEROSSA** facing the back end of the cradle. When placed in the cradle, always confirm the tester is properly seated in the **ULTRADOCK 3** and is charging, as indicated by the round LED indicator on the **TESTEROSSA** next to the testers power button glowing either yellow for charging batteries or green for fully charged batteries. The **TESTEROSSA** will automatically have its NiMH batteries charged while in the **ULTRADOCK 3**. **N**



Tester In **ULTRADOCK 3**

14. USING THE TEST STONE MAGNIFIER:

This accessory will allow you to see a magnified view of the stone being tested and help ensure that you're making proper contact with the probe tip and stone, while not accidentally touching the setting or prongs. After removing the testers probe tip cap, take the Test Stone Magnifier's wider side of its oval shaped frame and insert it over the **TESTEROSSA's** probe tip cone in the direction of the arrows inside of the frame and clip it into place. Depending on whether you are right or left-handed, you may conveniently position it on either side of the tester. Pivot the hinged magnifier so that it is positioned in front of the testers probe tip. You may now view the stones you are testing under magnification **O**. To remove the Test Stone Magnifier, carefully grasp it near the oval shaped frame for leverage and with a slight twisting motion it will expand the opening on the frame so you may then gently pull it off **P**.



How To Use The Magnifier



How To Remove The Magnifier

MAINTENANCE:

1. The **TESTEROSSA** is not user serviceable other than battery replacement, probe tip cleaning, and recalibration. If additional service is required, please contact your supplier or the factory. Any other attempt to repair the tester by a user will void the warranty.
2. Always replace the protective probe tip cap to keep the probe tip from becoming damaged.
3. If using alkaline batteries, always replace the batteries after long periods of time to prevent premature corrosion or battery leakage, which is common with old or spent alkaline batteries after a period. Be aware that damage to the **TESTEROSSA** may occur if there is battery leakage and it will void the warranty.
4. In the event the **TESTEROSSA** is not used for an extended period, the batteries should be removed.
5. Routinely clean the probe tip.

HELPFUL SUGGESTIONS:

1. To optimize the **PATENTED UV-F1** moissanite detection technology, when testing a stone with the **TESTEROSSA**, use battery power only.
2. If substituting alkaline batteries for the NiMH rechargeable batteries, only use high-quality AAA alkaline batteries.
3. Prior to testing a stone, always make certain the stone being tested has been cleaned and has no body oil on its surface, while noting that this oil may

not be visible to the naked eye. Since the **TESTEROSSA** is a highly sensitive instrument that is capable of identifying even the lowest electrically conductive moissanite, and because body oil is electrically conductive, without first cleaning the stone you may get a false-positive moissanite indication when testing a diamond.

4. The **TESTEROSSA** is designed to be able to easily test faceted or rough stones of virtually all sizes. However, please keep in mind that small stones will naturally heat up much faster after being touched by the probe tip. After each test, be certain to cool off the stone by blowing on it or waiting a few seconds until it cools if a retest is required. If testing diamonds in a pave setting, please note it is easy to accidentally overheat the stones next to the one being tested. Therefore, it is very important that you test the stones while alternating testing one area of the ring and then another, while regularly blowing on the stones to cool them off.

5. The **TESTEROSSA** has been calibrated at the factory and should not require further calibration. If after using the **TESTEROSSA** it is determined that recalibration is required, please contact the factory for calibration instructions, which can be easily accomplished by any user.

WARRANTY

Congratulations on your purchase of the **GEMORO TESTEROSSA**! Your **TESTEROSSA** features a **4-YEAR PROBE TIP**, plus a **LIFETIME LIMITED WARRANTY** on the electronics within the tester. The **ULTRADOCK 3** and Test

Stone Magnifier accessories feature a 1-year warranty, while the batteries have a 6-month warranty. Damage caused by abuse will void these warranties. These warranties become effective from the date of the original purchase after the purchaser fills out the WARRANTY REGISTRATION FORM at gemoroproducts.com/warrantyregistration or the purchaser provides a copy of their invoice (bill of sale) when making a warranty claim. In the event the tester's owner has not registered their tester or provided a copy of their invoice for when they purchased the **TESTEROSSA**, warranty service will be determined by the serial number tracking system as interpreted by the factory. In the event the **TESTEROSSA** is no longer available or has been discontinued and warranty coverage is applicable, at the factory's sole discretion, an equivalent tester may be substituted for the defective **TESTEROSSA**. The purchaser shall incur the cost for postage, insurance, and handling for all warranty and non-warranty repairs. Warranty repairs and/or replacements will be shipped back to the customer FOB Destination to the location of the customer's choosing if within the continental United States. Non-warranty repairs will be shipped back to the customer FOB Factory. Should the customer require the repair and/or replacement unit(s) to be shipped outside the continental United States, the customer will be required to pay any related shipping charges and any related taxes/duties for the respective destination country, regardless of whether it is a warranty or non-warranty claim.

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