

# TRI ELECTRONICS GT-EXPRESS MINI TESTER OWNER'S MANUAL

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## Introduction

The GT-EXPRESS Mini Tester is a new instrument in the TRI ELECTRONICS, INC. family of gold testers. The GT-EXPRESS uses the same method for determining gold content as the GXL-18 and GXL-24 testers. and is packaged in a more compact configuration and only measures the most popular yellow gold karatages, i.e. 10K, 14K. and 18K.

The GT-EXPRESS Mini Tester is an easy to use instrument, which does not require any special training for testing gold. Please read and follow these instructions carefully to assure proper operation of the instrument.

If you require more precise measurement of gold karatage, the GXL-18 or the GXL-24 Gold Testers should be used.

## Power

The GT-EXPRESS Mini Tester operates on one 9v alkaline battery. The "Power" light will flash on and off when the replacement of the battery is required.

## PACKAGE CONTENT:

1. Display unit
2. Test plate with alligator clip
3. Test wire connector
4. Test liquid container
5. File
6. Eraser

## Operating instructions

1. Connect the red wire contacts to the unit's wire outlet and to the alligator clip.
2. Slide ON/OFF switch to "ON" position. The Red "Power" light will come on signaling that power is on. If the Red "Power" light does not appear or flashes on and off the Tester needs a new battery.
3. Clip the alligator clip to the test piece to make an electrical connection from the test to the instrument.

4. Select a test point on the object close to alligator and clean up this point by rubbing the eraser vigorously and firmly on the spot to be tested.
5. Squeeze a drop of fluid from the container and place in the recess on the end of the sensor. Place the sensor head on the cleaned test point of the object. You may also place the drop of test liquid on the clean test point of the object, but **DO NOT TOUCH THE ALLIGATOR CUP WITH THE TEST LIQUID.**
6. Firmly place the head of the instrument (with the liquid on the head) against the selected test point of the tested item. Push the start button while holding the instrument firmly against the test point.
7. Maintain the instrument in the vertical position for approximately 5 seconds until the sound comes on which signals the end of the test. After completion of each test clean the inside of the nozzle of the device with a paper towel, cloth or cotton swab. If the sensor tip shows a brown discoloration, thoroughly clean nozzle with a small red eraser and denatured alcohol.
8. The light indicator shows the karat value of test object in the following ranges:

NOT GOLD	LESS THAN 10K
10K	10K TO 13K
14K	14K TO 17K
18K	18K OR GREATER

9. The light indicator will stay illuminated for approximately 4 seconds and then shuts off automatically. After that the instrument is ready for the next test. A small brown spot may show on the test piece. This spot is easily cleaned with an eraser and does not damage the gold in any way.
10. Slide ON/OFF switch to "OFF" position. The instrument will shut off automatically if left on for more than four (4) minutes without use. In order to reactivate the unit turn the on/off switch to "off" and back to "on" position.

## **SPECIAL RECOMMENDATIONS**

For determining of gold plated object, it is recommended to make three or four testes at the same point with eraser cleaning before each test. A gold plated object will decrease in karatage with each test. On heavily plated pieces it may be necessary to file or pin prick the piece and test over the filed spot on the test piece.

## **SERVICE**

The purchaser may obtain information about TRI-ELECTRONICS products or assistance on the use of the GT-EXPRESS Mini Tester by calling 858-571-4881, by e-mail [products@trielelectronics.com](mailto:products@trielelectronics.com), or by mail:

TRI ELECTRONICS, INC.  
4320 Viewridge Ave. Ste C  
San Diego, CA 92123

\*Replacement test liquid for GT-EXPRESS and other accessories are available from the manufacturer or authorized Tri Electronics distributors.

## **WARRANTY**

Tri Electronics, Inc. will guarantee the workmanship and quality of the GT-EXPRESS Mini Tester for a period of one year from the date of purchase. The time period of one year applies only to the original purchaser of the instrument and proof of purchase is required for the warranty to be effective.

Batteries and accessories are excluded from the warranty.

This warranty does not cover:

Any product where an attempt to disassemble the instrument is established; modification; alteration; unauthorized repair or service of the product nor damages of defects resulting from accident or any events beyond the control of Tri Electronics, Inc. alteration; unauthorized repair or service of the product nor damages or defects resulting from accident or any events beyond the control of Tri Electronics Inc. In addition, the manufacturer shall not be held responsible for any error in determining the contents of gold and other precious metals through the use of GT-EXPRESS Mini Tester nor for using the device in testing non-gold alloys.