

ELMED

ELMED ENDO-TEST UNIT INSULATION TESTER FOR LAPAROSCOPIC & ELECTROSURGICAL INSTRUMENTS



With the rapidly increasing use of electrosurgical instrumentation during laparoscopic procedures, the risk of injuries to patient and surgeon has multiplied. Many surgeons, familiar to open surgery, often do not appreciate that laparoscopic procedures, employing high-frequency current, require safe instruments.

ELMED has been at the forefront of creating safer electrosurgical instrumentation for laparoscopic procedures.

The ELMED ENDO-TEST was developed as a simple portable testing device for use in the sterile operating room field or in the instrument cleaning and maintenance departments.

The ELMED ENDO-TEST is a 9 volt battery Insulation and Continuity Tester that will aid in determining whether the insulation integrity of the laparoscopic electrosurgical instrument is in good condition or in need of insulation repair.



LIST #52-5685



LIST #52-5686

LIST NO.	DESCRIPTION
52-5685	ELMED ENDO-TEST UNIT - COMPLETE PACKAGE INCLUDES: AUTOCLAVABLE TEST ELECTRODE (INSULATION TEST); 3MM SPONGES (5), 5MM SPONGES (5) & 10MM SPONGES (5); TEST CABLES
52-5686	ELMED ENDO-TEST UNIT WITH MONOPOLAR & BIPOLAR CABLE TESTER CIRCUIT COMPLETE PACKAGE INCLUDES: SAME AS #52-5685 PLUS ADAPTERS & CABLE REQUIRED FOR CABLE TEST

ACCESSORIES FOR ENDO-TEST:	
52-5685-02	ELECTRODE FOR INSULATION TEST
52-5685-03	5 MM SPONGE INSERT FOR INSULATION TEST (10/PKG.)
52-5685-04	10 MM SPONGE INSERT FOR INSULATION TEST (10/PKG.)
52-5685-05	TEST CABLE FOR INSULATION TEST W/ 4 MM FEMALE CONNECTOR
52-5685-08	3 MM SPONGE INSERT FOR INSULATION TEST (10/PKG.)

ACCESSORIES FOR CABLE TESTER:	
52-5686-11	BIPOLAR ADAPTER CABLE
52-5686-12	BOVIE PLUG ADAPTER
52-5686-13	BANANA PLUG ADAPTER
52-5680-14	BANANA PLUG CONVERTOR ADAPTER
52-5680-15	BIPOLAR CABLE ADAPTER FOR KLEPPINGER FOR-CEPS CABLES
52-5680-16	BIPOLAR CABLE ADAPTER FOR 2-PIN PLUG CABLES
52-5685-17	ALLIGATOR TEST CLIP FOR ENDO-TESTER
52-5685-10	HANDLE TEST ELECTRODE W/ ATTACHED CABLE, FOR USE W/ INSULATION TEST ELECTRODE



Insulation Test Electrode
52-5685-02



Sponge



Cable for Insulation Test
52-5685-05



Handle Test Electrode w/ attached cable
52-5685-10
(for use w/ Test insulation Electrode)



THE ELMED ENDO-TEST UNITS

#52-5685 and #52-5686 serve two distinct Laparoscopic Instrument Tests:

- 1) Instrument Integrity Insulation Test
And, with the addition of #52-5686:
- 2) Monopolar & Bipolar Active Cable Test

Facility setting where the Endo-Test can be used:

A) **Sterile:** The tests are performed in a sterile setting such as the surgical suite and the instruments have already been sterilized.
Note: All Endo-Test accessories and instruments being tested must be sterile.

B) **Non-sterile:** If the tests are performed in a non-sterile setting (such as central sterilization or instrument preparation and maintenance) and the instruments have not yet been sterilized, then the same test procedures must be adhered to but with the accessories of the Endo-Tester or the instrument being tested in a non-sterile condition.

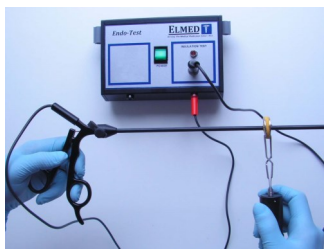
NOTE: Instrument insulation must be inspected visually for damages. Insulation testing with the Endo-Test Unit is intended as an aid to visual inspection.

1) INSULATION INTEGRITY TEST:



1. Slide the **sponge** into the **insulation test electrode** by pressing the middle part of the electrode using the thumb and the index finger.
2. Moisten the sponge with (sterile) water and squeeze out excess. Insert the **insulation test electrode** into the socket labeled "Insulation Test" on the **Endo-Test Unit (#3)**.
3. Take the **insulation test cable** and insert the **male banana** end into the **red socket (#2)** located at the front end of the **Endo-Test Unit** and connect the female end of the cable on to the Endoscopic Instrument (the instrument which needs to be tested).
4. Switch **ON** the **Endo-Test Unit (#1)**.
5. Slowly insert the Endoscopic Instrument tip first through the **sponge**. There will be a sharp BEEP when the metal tip passes through the sponge. Slide the entire length of the instrument through the **sponge** slowly and evenly. (Make sure the shaft is in constant contact with the sponge.)

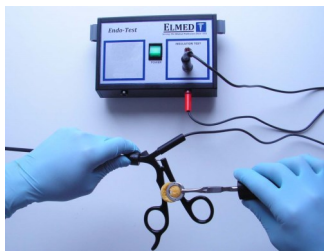
NOTE: A sharp beep sound and illumination of light (#4) at the insulated section of the instrument indicates bad insulation. No beep sound and no light (#4) indicates that the instrument's insulation is in working order.
REMINDER: Replace sponge if the hole gets enlarged or elongated.



Additional feature using the Handle Test Electrode No. 52-5685-10

PICTURE 1

Using the hand held "Handle Test Electrode" (52-5685-10) with the Insulation Test Electrode (52-5685-02) plugged in insert the insulated shaft through the center of the sponge.



Using the hand held "Handle Test Electrode" with the Insulation Test Electrode plugged in swiping the insulated handle with the extended top edge of the sponge.

PICTURE 2

Note: This same insulation test can be used on any insulated electrosurgical instrument.

WE DESIGN, MANUFACTURE & SELL THE TOOLS THE SURGEONS USE

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