Laparoscopic Insulation Tester

Instructions for Use Manual

Introduction
The Spectrum Insulation tester (known as unit for the rest of these instructions) checks the integrity of the insulation on laparoscopic instruments. Any instrument that fails the test should be removed from service until repaired.

Prior to using the insulation tester, check to see that the BATT LEVEL indicator light is not on. If the light is on, please replace the battery (9 volt battery is commercially available). Verify that the tester is working properly by touching on the metal ends from one cable to an exposed metal area on one other attachment. The red fail light should come on and an audible “beep” will be produced by the unit.

Rubber or vinyl gloves should be worn when using the tester to minimize the potential for shock as well as becoming part of the testing circuit which would register as a false failure.

The unit may be cleaned using a mild (10% or less) alcohol or ammonia solution.

Intended Use
This unit is intended to verify insulation integrity on laparoscopic instruments.

Caution: This device should only be used by SPD, CS department staff or trained repair technicians. Consult Instructions for Use Manual.

Contents
Insulation Tester (1) • Test Cables (2) • Test Attachments (3) • Alligator Clip (1) • 9 Volt Battery (1) • Instructions for Use Manual

Operating Instructions
Insert the 9 Volt battery in the back of the unit by taking out of the protective sleeve and sliding down the battery cover in the back of the unit. Replace the cover and the protective sleeve.

There are 3 different test attachments (Please see images on other side of this sheet.) Test attachment 1 is used to test the insulation over the shaft of the laparoscopic by running the shaft of the instrument through the hole that is closest in size to the outside diameter of the shaft. The cable on the other end should be attached to the “bovie” or you can use the alligator clip to attach to a bare metal area on the instrument.

For areas such as the handle where it is not possible to use Test Attachment 1, you should use either the brush attachment (Test Attachment 2) or the “J” hook attachment (Test Attachment 3). This is done by physically touching the attachment brush or “J” hook attachment to an insulated area.

Safety
People having electrical implants, such as pace makers, should not use this product.

This product should not be used near a person having electrical implants.

When the TEST button has been pressed, do not touch any exposed metal areas of the instrument being tested or any exposed metal area of the tester.

This unit should not be used in water or other aqueous solutions or humid environment.

The unit generates a voltage of around 2300 VDC.

Laparoscopic instruments should be tested by pressing down on the TEST button for only as long as required to perform the test. The unit is not made to be run in a continuous mode.

Do not open the rear of the unit. There are no serviceable parts.
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1. Remove Insulation Tester from carrying case. Then remove the Insulation Tester from the protective sleeve.

2. After removing the protective sleeve, slide the battery cover down and remove.

3. Once the battery cover is off of the Insulation Tester, insert the the 9 Volt battery in the back of the unit. Replace the battery cover and protective sleeve.

4. Test Attachment 1 is used to test the insulation over the shaft of the instrument by running the shaft of the instrument through the hole that is closest in size to the outside diameter of the shaft. The cable on the other end should be attached to the “bovie” or use the alligator clip to attach to a bare metal area on the instrument.

5. For areas such as the handle where it is not possible to use Test Attachment 1, use the Brush Attachment (Test Attachment 2).

6. For other areas where it is not possible to use Test Attachment 1 or 2, you should use the “J” hook (Test Attachment 3).