



**INSTRUCTION MANUAL**  
**AUTOMATIC ELIMINATION PROBE**

**MODEL 01-00013B**

**NOISE LABORATORY CO., LTD.**

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We thank you very much for your buying AUTOMATIC ELIMINATION PROBE MODEL 01-00013B FOR ESS-Series. This unit is connected to ESS so as to automatically discharge EUT (Equipment under test) that is charged by applying static electricity. It is recommended that this manual be thoroughly understood and used as ready reference for operation.

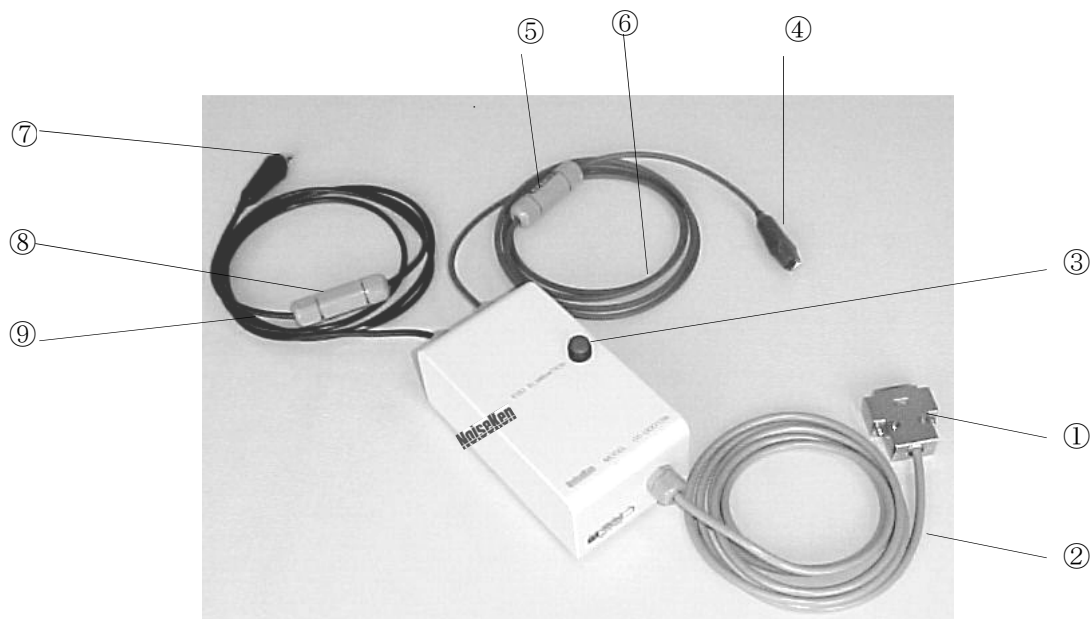
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For the safety precautions, warranty terms and so on, refer to the relevant section of the manual of your simulator.

## 1. CONTENTS IN THE PACKAGE

Automatic elimination probe..... 1 pc.  
Instruction manual (this manual) ..... 1 pc.

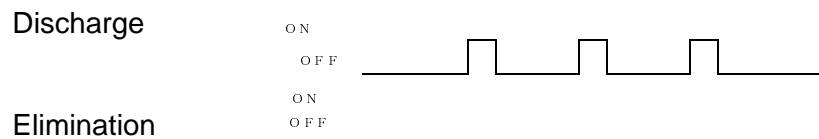
## 2. NAME AND FUNCTION OF EACH PART



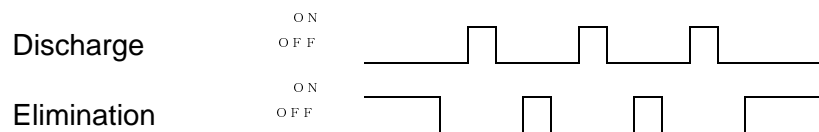
- ① **UX connector:** Connects to AUX CONNECTOR on the rear panel of ESS.
- ② **AUX connecting cable**
- ③ **Elimination switch/lamp:** The pilot lamp is on during elimination. When this switch is pressed to set to no-elimination position (Lamp is off), manual elimination can be performed.
- ④ **HOT side clip (Red):** Connect the cabinet/earth terminal of EUT.
- ⑤ **HOT side elimination resistance:** Incorporates resistance of 470k $\Omega$ .
- ⑥ **HOT side cable (White):** 30kV high-voltage cable is used.
- ⑦ **GND side clip (Black):** Connects to the ground of electrostatic simulator system
- ⑧ **GND side elimination resistance:** Incorporates resistance of 470k $\Omega$ .
- ⑨ **GND side cable (Black)**

### 3. HOW TO USE

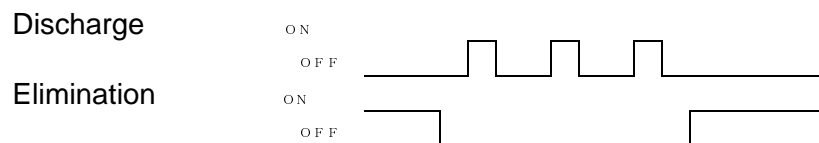
- ① Connect AUX connector to the AUX connector of ESS.
- ② Connect HOT side clip (red) to Cabinet/Earth terminal of EUT.
- ③ Connect GND side clip (black) to the ground of electrostatic simulator system. (Usually, connect to the grounding plane.)
- ④ Turn on power to ESS and press keys MENU → 6 → 1 to display the setting screen.
- ⑤ Move the setting frame to the title "ELIMINATION PROBE" by means of ▽ key.
- ⑥ Set the elimination probe to the intended operation mode by means of the rotary knob.  
 NOT USED.....Elimination probe does not work. (It is set to no-elimination status.)  
 Manual elimination can be performed using the elimination switch.



EVERY DISCHARGE.....Elimination is performed at every discharge. However, when the applying interval is set at less than one second, elimination is performed at every count-up. (Same as COUNT UP)



COUNT-UP.....Elimination is performed when the specified number of times of discharge is finished.



#### 4. SPECIFICATIONS

Items	Specifications
Max. elimination voltage	30 kV
Elimination resistance	$470\text{K}\Omega + 470\text{K}\Omega = 940\text{K}\Omega$
Hot side cable length	2 m
GND side cable length	2 m
AUT connecting cable length	2 m
Dimensions	150(D) x 85(W) x 60(H) except any projection

#### **CAUTION**

- Do not connect HOT side clip and GND side clip to the wrong side. Otherwise, correct test results may not be obtained.
- Avoid disassembling the main unit and elimination resistance.
- When no power to ESS is turned on or nothing is connected to AUX connector of elimination probe, the probe is set to no-elimination status (HOT side insulated from GND side). Even if the elimination switch is pressed in this status, elimination will not be performed.

※When using a warning light or external trigger output together with the elimination probe, contact  
NOISE LABORATORY

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