

## **INSTRUCTION MANUAL**

**FREE ARM GUN STAND**

**MODEL 03-00022B**

**NOISE LABORATORY CO., LTD.**

3.02 Edition

AEM00008-00E-2C

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# 1. Table of Contents

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1. Table of Contents .....	1
2. PREFACE .....	2
3. APPEARANCE AND DIMENSIONS.....	3
4. NAMES AND FUNCTION OF EACH PART .....	4
5. HOW TO USE .....	6
6. CAUTION .....	6
7. Noise Laboratory support network .....	7

## 2. PREFACE

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We thank you very much for your purchase of this FREE ARM GUN STAND / MODEL 03-00022B FOR DISCHARGE GUN.

This probe stand has been designed and manufactured as an upgraded model of the existing self-supporting type stand for the purpose of improving the environments for electrostatic tests such as for IEC61000-4-2.

This new probe stand allows the operator to mount and dismount the discharge gun easily and also to move the discharge gun easily to EUT test position where he can set it as desired.

(For use)

03-00022B shall be suitable for discharge gun [GT-30R(A), TC-815R, TC-815S] .

TC-815R, TC-815S is a direct attached, but in the case of mounting GT-30R(A), you will need to buy FREE ARM GUN STAND Adapter to an attachment.

Note) FREE ARM GUN STAND Adapter is not attached. It's the other for sale.

(Notice)

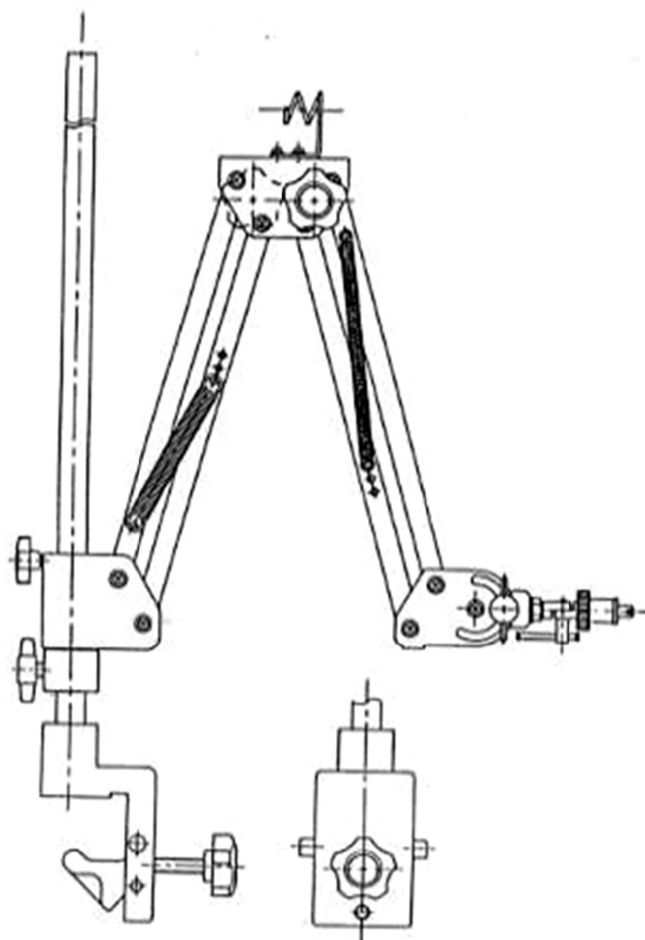
Refer to the instruction manual of the main unit for the “Important Safety Precautions” and “warranty”.

## **FEATURES**

- You can move the discharge gun (Model: GT-30R(A), TC-815R, TC-815S) vertically and horizontally as desired when conducting a test.
  - ① The entire arm can be horizontally rotated centering around the supporting ball, with vertical movement fixed, and can also be moved vertically, with horizontal movement fixed.
  - ② The discharge gun can be moved -120° to +90° vertically and 90° clockwise/counterclockwise, with the supporting ball and arm fixed. In addition, it can be rotated within 360° centering around the gun mounting part and can also be fixed at the intended angle.
  - ③ When conducting a test, you can move the gun head to the desired test point of any shape of EUT without changing the stand set position.
- The clamper makes it possible to fix the stand to a test desk (03-00039A) with a thickness of 5 to 60mm or a working desk, so that the discharge gun can be surely stabilized. The stand is easily detachable.
- When this stand is fixed to a push car on which an electrostatic tester is placed, you can easily test even a large EUT by moving the push car. (The push car is also available.)
- Designed for compact, lightweight and rigid construction to assure stable performance for long period of time.

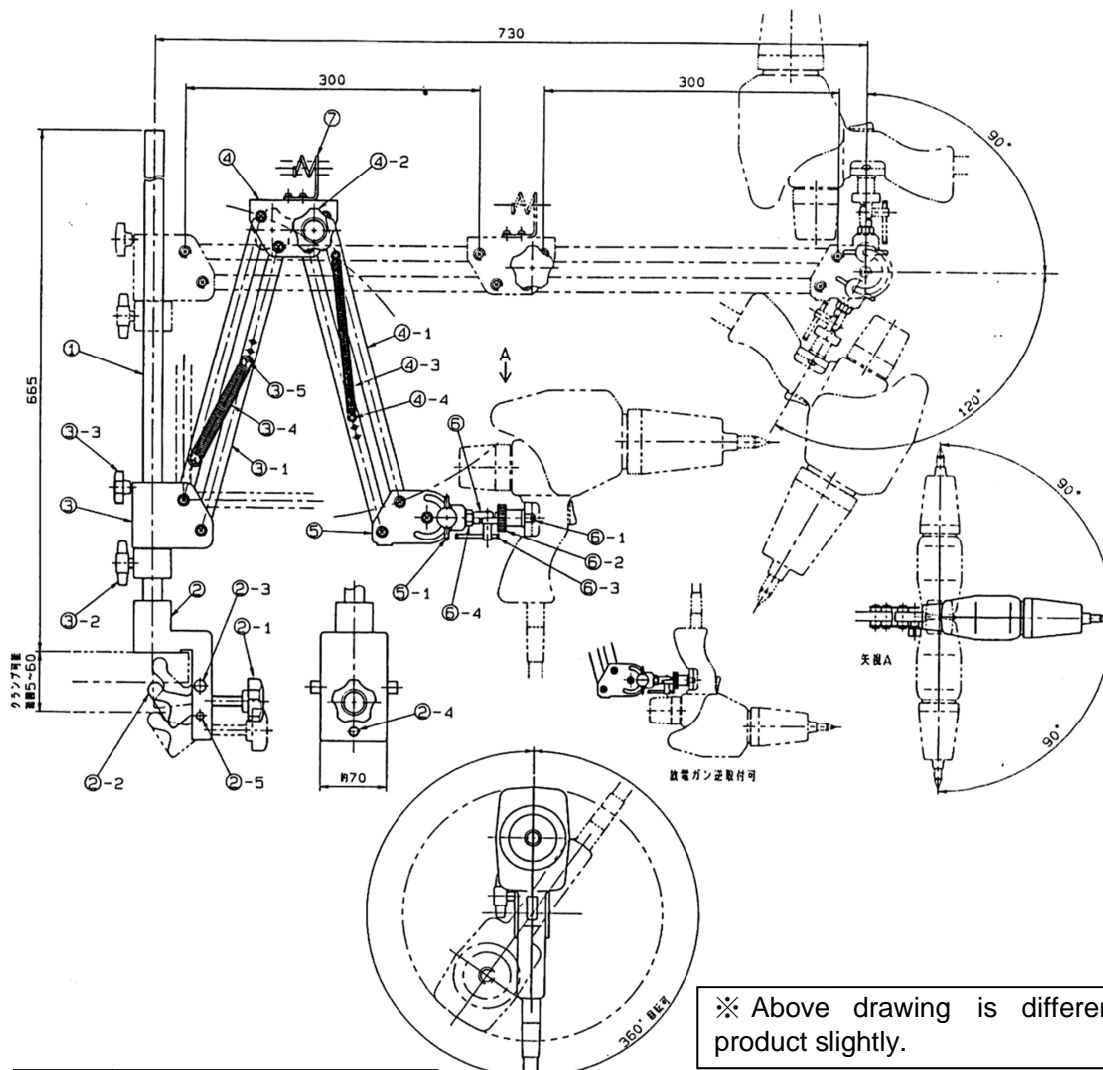
### 3. APPEARANCE AND DIMENSIONS

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- Dimensions : (W) 200x(H) 750x(D) 68 (mm)
- Weight : 5kg
- Load at end of movable part : 2kg

## 4. NAMES AND FUNCTION OF EACH PART



FREE ARM GUN STAND  
Adapter (The other for sale)

※ Above drawing is different from the  
product slightly.

Fixing of the product  
"GT-30R(A)"

### ① Supporting ball

Arm③ can be vertically moved along the ball for a distance of more than 500mm.

## ② Clamper

Used to fix the stand to a test desk, working table, etc. with a thickness of 5 to 60mm. The clamper has been pre-assembled to fix a desk with a thickness of 5 to 30mm. However when ②-1 and ②-3 are moved to ②-4 and ②-5 positions, the clamper can be fixed to a desk with a thickness of 60mm.

②-1 It can be fixed to or detached from the test table by rotating clamping knob

### ②-2 Clamper shift piece

The clamper touches a test desk etc. to clamp it by moving this shift piece.

### ②-3 Clamper shift pin

The clamper shift piece rotates centering around this pin.

②-4 Clamping knob set screw for fixing to a desk etc. of more than 30mm

②-5 Clamper shift pin set screw for fixing to a desk etc. of more than 30mm

## ③ Arm hinge A

### ③-1 Arm

### ③-2 Vertical movement locking knob

Used to move the arm vertically, and fix/release it at the desired position.

### ③-3 Rotary movement locking knob

Used to rotate the arm horizontally, and fix/release it at the desired position.

### ③-4 Balancing spring (2 pcs.)

Used to balance load up to 2kg at the end.

### ③-5 Spring retaining pin (2 pcs.)

Used to hook a spring. This pin can be easily drawn out when the spring is removed. Carefully keep these springs.

## ④ Arm hinge B

### ④-1 Arm

### ④-2 Arm fixing knob (1 for surface and 1 for back)

### ④-3 Balancing spring (2 pcs.)

Used to balance load up to 2kg at the end.

### ④-4 Spring retaining pin (2 pcs.)

This pin can be easily drawn out when the spring is removed.

## ⑤ Arm hinge C

### ⑤-1 Discharge gun angle fixing handle

Used to move the discharge gun angle 210° vertically, and fix/release it at the desired position.

## ⑥ Discharge gun mounting part

### ⑥-1 Discharge gun metal fixture

Used to fix the discharge gun inverted.

Discharge gun and FREE ARM GUN STAND Adapter (The other for sale) are attached.

### ⑥-2 Discharge gun fixing knob

Used to fix or detach the discharge gun by tightening or loosening.

### ⑥-3 Discharge gun angle fixing handle

Used to move the discharge gun angle 180° horizontally, and fix/release it at the desired position.

### ⑥-4 Discharge gun lock nut

Loosen this nut with a wrench, rotate the discharge gun within an angle of 360° and set it at the desired position.

## ⑦ Cable holder

Used to hold the cable to prevent its hanging down.

## 5. HOW TO USE

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- ① Set the discharge gun at the desired position of EUT by referring to the given instructions for each part and conduct a test.
- ② This probe stand can also be used for other applications than those exclusive use discharge gun for electrostatic tester by working it for an ordinary working tool.

## 6. CAUTION

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The balancing spring will not come out of position during ordinary use. However, if it comes off, the spring retaining pin may be lost. So, carefully keep the spring retaining pin.



## 7. Noise Laboratory support network

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- If a symptom which seems a trouble is found, check the symptom against the following check sheet and inform the model name and serial Number of the product together with the symptom to Noise Laboratory or your nearest sales agent of Noise Laboratory.
- When the product is returned to Noise Laboratory, write the state of the trouble, contents of your request, model name and serial number in a repair order, pack the product and repair order sheet in the former package or equivalent suitable for transit and send them back.

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