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**1. IMPORTANT SAFETY PRECAUTIONS**

As this product is a resistor to observe waveform of pulse generated by a pulse generator, it is always used with pulse generators. Read the instruction manuals of those pulse generators carefully, and fully understand matters about safety handling prior to usage.

**2. PREFACE**

We thank you for your purchasing waveform verification set MODEL: 06-00059B (hereinafter "the Unit"). Read this instruction manual ("the Manual") carefully prior to usage, thoroughly understand the contents of the Manual and use as ready reference for operation.

- The Manual will help you operate the Unit safely and make the most of use it, if you strictly follow the operational procedures and safety instructions.
- Keep the Manual where it is readily available.

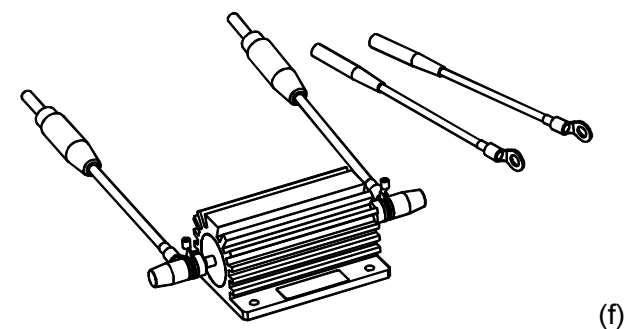
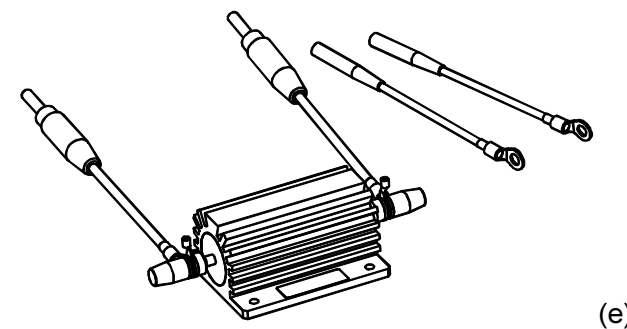
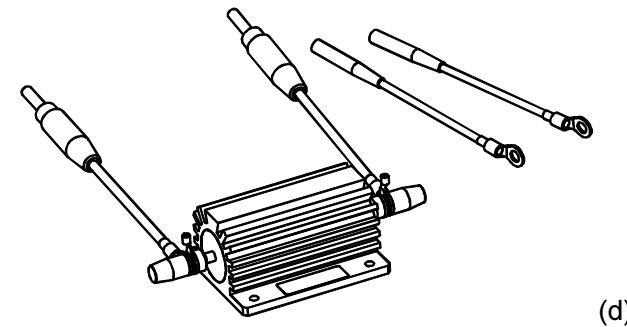
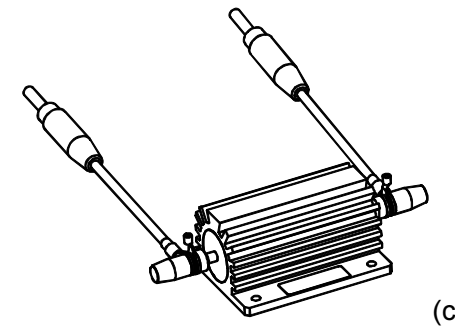
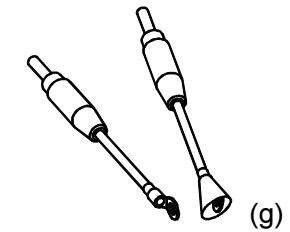
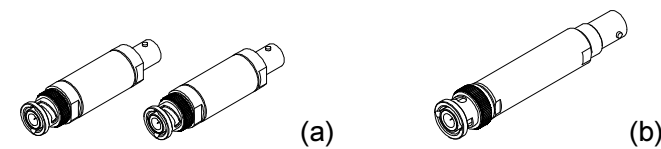
§ Feature

The Unit carries all resistors for verification of waveform described in Annex D of ISO7637-2 standard.

**3. BASIC SAFETY PRECAUTIONS**

1. Mishandling or careless operation may result in a fatal wound. 【Precautions for human body, operation, environments and connection】
2. When connecting the Unit to a pulse generator, be sure to stop the pulse output of the generator. Otherwise, you may get an electric shock. 【Precautions for human body and connection】
3. Connect the plug of the Unit to the output terminal of the generator securely. 【Precautions for human body and connection】
4. Our company and sales agents shall have no responsibility for any accident resulting in injury or death, any breakage or resultant damages due to irresponsible handling. 【Precautions for human body, operation, environments and connection】
5. If the Unit is used in conditions exceeding its tolerance level, it may result in not only damage or deterioration of characteristics of the Unit but also an electric shock to human body. 【Precautions for human body and connection】

**4. ENCLOSED ITEMS**



- (a) 50 Ω Load Waveform Verification ATT ..... 1 set (00-00006B)
- (b) No Load Waveform Verification ATT ..... 1 set (00-00007A)
- (c) Waveform Verification 1 Ω Load ..... 1 set (06-00060A)
- (d) Waveform Verification 2 Ω Load ..... 1 set (06-00061A)
- (e) Waveform Verification 10 Ω Load ..... 1 set (06-00062A)
- (f) Waveform Verification 50 Ω Load ..... 1 set (06-00063A)
- (g) Open Waveform Verification Cable (Red, Black) ..... Each 1 piece

**5. OPERATION**

As for how to use each item, refer to instruction manuals of following models.

(a)	50 Ω Load Waveform Verification ATT	00-00006B
(b)	No Load Waveform Verification ATT	00-00007A
(c)	Waveform Verification 1 Ω Load	06-00060A
(d)	Waveform Verification 2 Ω Load	06-00061A
(e)	Waveform Verification 10 Ω Load	06-00062A
(f)	Waveform Verification 50 Ω Load	06-00063A

(g) Open Waveform Verification Cable: Used for observing waveform in output terminal open status. Connect each plug to HOT and GND of output terminals of DC LINE OUT/PULSE of ISS-7690. Clip each of another ends with a voltage probe.

## 6. SPECIFICATIONS

As for specifications and performance of each item, refer to instruction manuals of following models.

(a)	50 Ω Load Waveform Verification ATT	00-00006B
(b)	No Load Waveform Verification ATT	00-00007A
(c)	Waveform Verification 1 Ω Load	06-00060A
(d)	Waveform Verification 2 Ω Load	06-00061A
(e)	Waveform Verification 10 Ω Load	06-00062A
(f)	Waveform Verification 50 Ω Load	06-00063A

## 7. WARRANTY

### Servicing terms

The following terms are applicable to servicing by Noise Laboratory Co., Ltd., (hereafter referred to as the Company) provided to maintain the intended performance of its products.

1. Scope  
The following terms shall apply only to products made by the Company.
2. Technical servicing fee  
In the event of a failure of a product within the warranty period (see warranty section), the Company will repair a product without charge. After the warranty expires, repairs will be billed at a nominal cost.
3. Ownership of defective parts  
Any defective part exchanged under the Company's servicing belongs to it.
4. Limited liability  
In the event that damages resulting from servicing by the Company are intentional or caused by negligence, the Company will pay the cost but at the purchase value of the relevant product maximum. But, notwithstanding the foregoing, the Company shall not be responsible for any incidental or consequential damages of any nature, including without limitation thereof loss of would-be profit or compensation demanded from a third party
5. Refusal to offer servicing

The company may not accept a repair order in the following cases:

- More than 5 years have passed since the product discontinued
  - More than 8 years have passed after delivery
  - Required component for servicing already discontinued and no alternative is available.
  - Product changed, repaired or remodeled without obtaining a prior permission from the Company.
  - Product severely damaged to the extent it has lost its original form
- Limited warranty

The company warrants its products to be free from defects in materials and workmanship under normal use and service for a period of one year from date of delivery. In the event of failure of a product covered by this warranty, the Company will repair the product or may, at its option, replace it in lieu of repair without charge.

Notwithstanding the foregoing, the Company shall not be responsible for any incidental or consequential damages of any nature, including without limitation thereof loss of would-be profit or compensation demanded from a third party. This warranty is valid only in Japan.

1. Scope  
This warranty shall only apply to products made by the Company.
2. Period  
One year from date of delivery. The warranty may be valid in 6 months after servicing if the same failure on the same component has repeated.
3. Exclusions  
The followings are exclusions from this warranty:
  - Consumable parts (including HV relay)
  - Failure caused by misuse, neglect, accident or abnormal conditions of operation
  - Failure caused by remodeling on the user side without prior permission from the Company
  - Failure caused by servicing by unauthorized personnel by the Company
  - Failure due to force majeure including but not limited to, acts of God, fire, war, riot, rebellion and others
  - Failure due to shock or drop in or after transit
  - Failure due to operation in environment being out of ambient specifications.
  - A unit shipped to overseas.

## 8. MAINTENANCE

1. When repair, maintenance or internal adjustment of the unit is required, a qualified service engineer takes charge of such work.
2. Maintenance on the user side is restricted to the outside cleaning and functional check of the unit.
3. When cleaning the unit, turn off the switch of this unit and the connected equipment and disconnect the plug socket beforehand.
4. Avoid using chemicals for cleaning. Otherwise, the coating of the unit may peel off or the sight glass may be broken.
5. Do not open the cover of the unit.

## 9. SUPPORT NETWORK

- If a symptom which seems a trouble is found, 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, and pack the product and repair order sheet in the former package of equivalent suitable for transit and send them back.

### For repair and other services, contact:

International Dept.  
Noise Laboratory Co., Ltd.  
1-4-4 Chiyoda, Chuo-ku, Sagami-hara, Kanagawa  
252-0237, Japan  
Tel: +81 (0)42-712-2051  
Fax: +81 (0)42-712-2050

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## 10. APPLICATION FORM

We apply for buying INSTRUCTION MANUAL.

**Model: 06-00059B**

Applicant's address:

Company name:

Section:

Name of person in charge:

TEL:

FAX:

Cut off this page "APPLICATION FORM FOR BUYING INSTRUCTION MANUAL" from this booklet and keep it for future use with care.

When an INSTRUCTION MANUAL is required, fill out the above Application Form and mail or fax it to NOISE LABORATORY CO., LTD. or our sales agent.