

113228J UV Tube for C7012 Solid State Purple Peeper Ultraviolet Flame Detector User's Manual



Thank you for purchasing the 113228J UV tube. This manual contains information for ensuring correct use of 113228J.

Before operating this product described in this user's manual, please take note of the following points regarding safety.

REQUEST

Ensure that this User's Manual is handed over to the user before the product is used.

Copying or duplicating this User's Manual in part or in whole is forbidden. The information and specifications in this User's Manual are subject to change without notice.

Considerable effort has been made to ensure that this User's Manual is free from inaccuracies and omissions. If you should find any inaccuracies or omissions, please contact Yamatake Corporation.

In no event is Yamatake Corporation liable to anyone for any indirect, special or consequential damages as a result of using this product.

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SAFETY PRECAUTIONS

Safety precautions are for ensuring safe and correct use of this product, and for preventing injury to the operator and other people or damage to property. You must observe these safety precautions. Also, be sure to read and understand the content of this user's manual.



CAUTION

Cautions are indicated when mishandling this product might result in minor injury to the user, or only physical damage to this product.



CAUTION

- When transporting combustion equipment, remove the UV tube from the equipment and put the tube into a dedicated packing box for transportation. If the UV tube is transported without removing from the equipment, the UV tube might cause malfunction due to the damage caused by vibration and/or shock given during transportation.

HANDLING PRECAUTIONS

- Do not combine this unit with a unit other than the C7012 Solid State Purple Peeper Ultraviolet Flame Detector.
- Handle UV tube carefully without giving shock to the bare UV tube.
- Package securely in a packing box for transportation and stocking.
- When ambient temperature increases above 85°C, the white points on the thermo label change color into black. As this indicates that the temperature has exceeded the allowable temperature, decrease the temperature by air-purge for cooling.
- The effective operation time of the UV tube is different by application conditions, but is approximately 3 years or 25,000 hours. For safety purposes, be sure to replace the UV tube within this term.

1. Introduction

The 113228J UV tube is a phototube used to detect ultraviolet radiation emitted by combustion flames. As the this unit has a very important function to ensure the safe operation of combustion equipment, please give much attention to it when handling and stocking.

2. Structure

One set of electrodes having a face to receive ultraviolet rays and gas are packaged in a quartz glass tube.

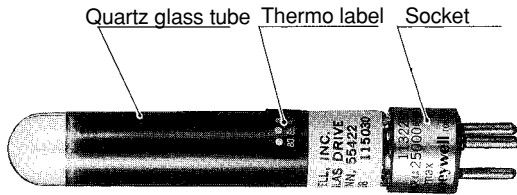


Fig.1

3. UV Tube Replacement Method

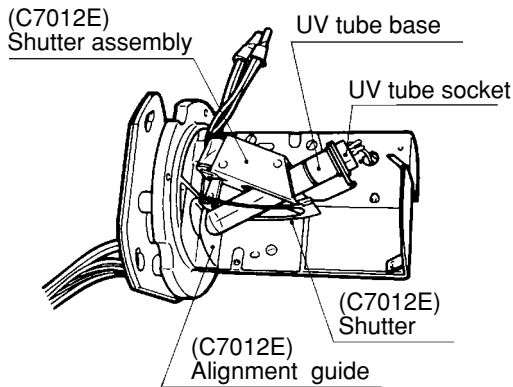


Fig.2

! Handling Precautions

- Dismount carefully, giving extra caution not to damage the UV Tube.
- Mount and dismount carefully by holding the tube base.
- Avoid hand contact with the light-receiving face.

- (1) Turn OFF the power supply switch.
- (2) Remove the cover mounting screws (4 pieces) and the cover from the detector.
- (3) On the C7012E, gently bend the alignment guide, to free the tip of the tube.
- (4) Insert a screwdriver between the tube base and socket, and gently pry the tube out of its socket(Fig.3). Pull the tube out of its socket to the direction of the arrow(Fig.4).

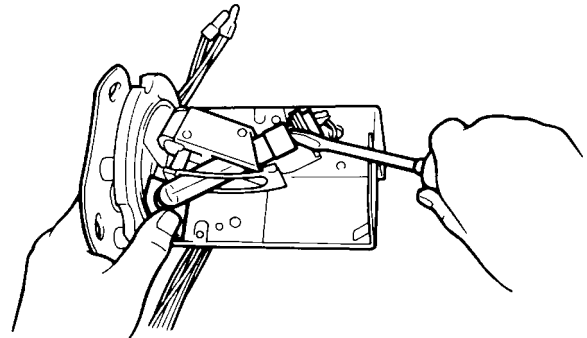


Fig.3

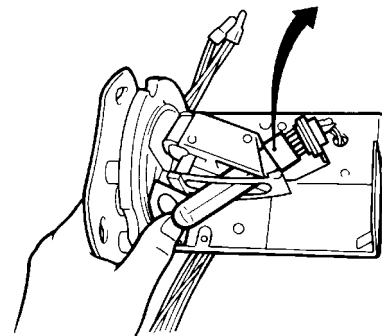


Fig.4

- (5) Gently set the tip of the new UV tube into the alignment guide in the same way as the above step(3).
- (6) Align the three pins on the new UV tube with holes in the socket, and then push the tube firmly into the socket.
- (7) finally, replace the detector cover.

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