

YANMAR
SERVICE MANUAL

LIGHT BOY

MODEL LB446HB/H

YANMAR

FLOODLIGHT PROJECTOR

SERVICE MANUAL

MODEL LIGHT BOY LB446HB/H

FOREWORD

This manual explains the service procedure for Yanmar floodlight projector model LB446HB & LB446H.

Please use this manual for correct, quick, safe servicing of the floodlight projector.

Please be advised that the contents of this manual may be different from actual floodlight projector because of any later modification of parts or specifications for improving the quality.

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Safety

1. Safety

1-1. Warning Symbols

- Most accidents are caused by negligence of basic safety rules and precautions. Avoiding possible cause is important for accident prevention. Be sure to read this manual carefully for full understanding of safety precautions and appropriate service/inspection procedures before starting actual repair or service jobs. Repair or service jobs without sufficient knowledge may lead to unexpected accidents.
- It is not possible to cover all possible accidents in repair or service in the manual. It is, therefore, necessary to pay sufficient attention to safety in various jobs not indicated with the following warning symbols. Especially for the safety in conducting various jobs not covered herein, receive instructions from a knowledgeable leader.
- The warning symbols used in this manual and their meanings are as follows:



DANGER- Indicates an imminently hazardous job which, if not conducted correctly, will result in death or serious injury.



CAUTION- Indicates a potentially hazardous job which, if not conducted correctly, may result in minor or moderate injury.

- The notice sign used in this manual and its meaning are as follows:



NOTICE- Indicates an important point in service operation which, if not observed, the product performance and quality may not be guaranteed.

1-2. Loading generator

- Always observe the following instructions for safe repair and maintenance jobs:

1-2-1. Service Shop (Location)

DANGER

Well-ventilated location

- Select a well-ventilated location for conducting floodlight projector operation, parts welding or polishing the paint with sandpaper.

[Non-observance]

Very dangerous for human health since inhalation of poisonous gas or dust is possible.

CAUTION

Sufficiently wide, flat location

- The floor of the service shop (area) for inspection and service shall be sufficiently wide and flat without any hole.

[Non-observance]

Dangerous since unexpected accidents such as a violent fall may occur.

CAUTION

Cleaned location arranged in good order

- The floor surface shall be free from dust, dirt or oil without any flammable substance or parts on it.

[Non-observance]

Unexpected accidents may arise.

CAUTION

Brightly and safely illuminated location

- The working area shall be illuminated in a safe manner with sufficient brightness. When operating in a dark place involving poor visibility, use a safe, portable flashlight. The bulb shall be covered with wire cage.

[Non-observance]

Accidental breaking of the bulb may cause ignition of leaking oil.

CAUTION

Location with fire-extinguishing equipment

- Always work in the neighborhood of a first aid kit and fire extinguisher in preparation for an accidental fire.

1-2-2. Working Wear

CAUTION

Wear for safe operation

- Wear protective items such as a cap, safety shoes and working wear matching the job to be done. Especially select a working wear fitting your body.

[Non-observance]

Critical accidents such as trapping in a machine may arise.

1-2-3. Tools to Be Used

⚠ CAUTION

Proper supporting and lifting

- Never operate when the product is supported with blocks or wooden pieces or only with a jack. Always use a crane with sufficient allowance in limit load or with rigid jack(s) for lifting and supporting the product.

[Non-observance]

Severe accidents may arise.

⚠ CAUTION

Use of appropriate tools

- Use appropriate tools for individual jobs. Use a correct-size tool when loosening or tightening a nut or bolt.

[Non-observance]

A severe injury or damage to a machine or part may arise.

1-2-4. Parts

[NOTICE]

Always use genuine items

[Non-observance]

Shortening of the machine life or unexpected accidents may arise.

1-2-5. Bolt Tightening Torque

⚠ CAUTION

Always tighten to torque specified in the manual, if any

[Non-observance]

Loosening or falling will arise to damage the machine or parts or cause injuries.

1-2-6. Product Handling

⚠ CAUTION

Pay attention to hot parts

- The lamps, balloon and the lighting units are hot while lamps are on and right after they are turned off. Take great care in handling them.

[Non-observance]

Scald may occur.

⚠ CAUTION

Keep clear of pinch-point

- Keep clear of pinch-point of the mast and the lamp stand when handling them.

[Non-observance]

An injury may be caused by unexpected entrapping.

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