

Lamp kit



Installation manual For XLM HD30

R9852411

Barco nv Events

Noordlaan 5, B-8520 Kurne

Phone: +32 56.36.89.70

Fax: +32 56.36.88.24

E-mail: sales.events@barco.com

Visit us at the web: www.barco.com

1. SAFETY WARNINGS

1.1 Safety warnings during installation

Who may install

The installation must be performed by authorized technical personnel only.

Authorized technical personnel: persons having appropriate technical training and experience necessary to be aware of hazards to which they are exposed in performing a task and of measures to minimize the danger to themselves or other persons.

Caution risk of electric shock

Before attempting to remove any of the projector's covers, the projector has to be turned off and disconnected from the wall outlet to minimize the risk of electric shock.

Caution on head

Before starting with the replacement of the lamp unit, always let cool down the projector after operation in order to reduce the heat on parts in the light path and to avoid burns.

Warning eye damage

Eye damage may result from direct viewing the light produced by the lamp used in this equipment. Always turn off lamp before opening cover.

1.2 Product care

Installation Kit

The Kit **R9852411** is designed for use ONLY with the BARCO XLM HD30 series projectors.

Replacement parts

When replacement parts are required, be sure the service technician has used original Barco replacement parts or authorized replacement parts which have the same characteristics as the Barco original part.

Unauthorized substitutions may result in degraded performance and reliability, fire, electric shock or other hazards. Unauthorized substitutions may void warranty.

Repairable

Under no circumstances are Barco parts repairable by anyone other than Barco.

1. *Safety warnings*

2. INTRODUCTION

2.1 Content of the kit

Content of the kit

The kit contains a XENON projection lamp mounted in a housing together with the reflector.



Image 2-1
Complete lamp unit

3. REMOVING THE OLD LAMP

3.1 Access to the lamp unit

What has to be done ?

To access the lamp unit, a side panel has to be removed.

Necessary tools

- Nut driver 10mm
- Flat screwdriver 5mm

How to remove ?

1. Unplug the projector from the wall outlet.
2. On the input side of the projector, remove the side by turning the 3 quarter turn fastener studs a quarter turn counterclockwise.



Image 3-1
Removing side cover

3. Pull the top side of the cover out of its spring locks and take off the cover.

3.2 Removing the lamp unit

How to remove ?

1. Loosen both spring lock screws (A) by turning counterclockwise.

3. Removing the old lamp

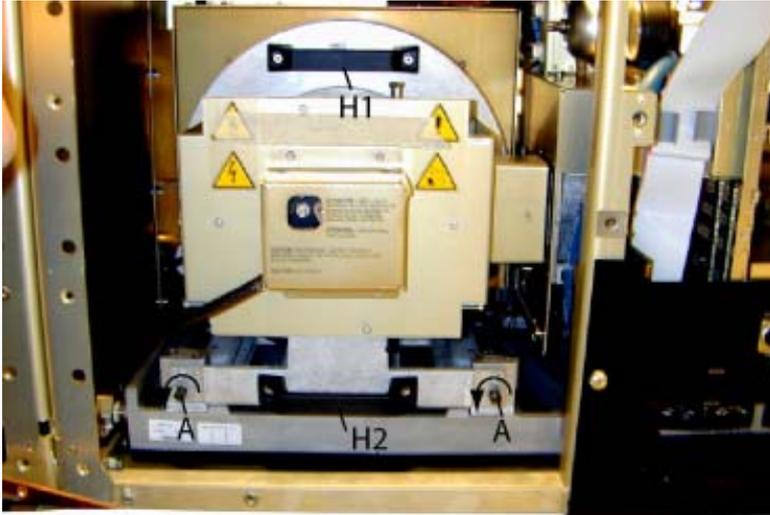


Image 3-2
Lamp casing removal

2. Take the lamp unit by both handles (H1, H2) and pull it backwards until it is out of its grooves.
3. Take the lamp unit out of the projector.



WARNING: Never attempt to disassemble the lamp from its housing or to dispose of it other than by returning it to Barco. Due to its high internal pressure, the lamp may explode in either hot or cold state.

4. MOUNTING A NEW LAMP UNIT

4.1 Inserting the lamp unit

Necessary tools

Flat screwdriver 5mm

How to insert ?

1. Take the new lamp unit by both handles out of the shipping box.
2. Place the lamp unit on the optical base plate.
3. Line up the lamp unit guides with the guides on the optical base and push the unit forward until it slides fully into the projector. Both center pins (A) must match both center holes (B).

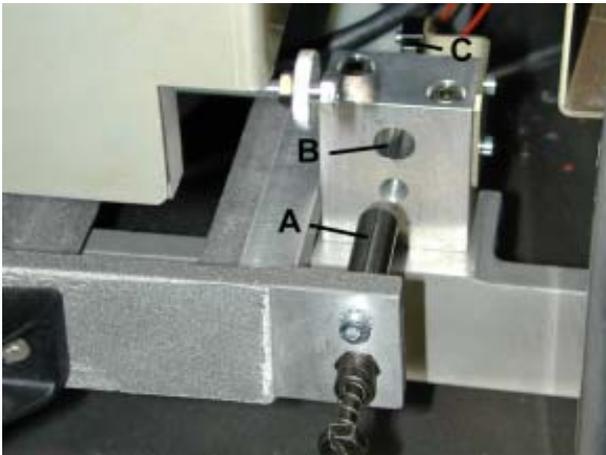


Image 4-1
Lamp insertion

If the center pins match the holes, the safety switch (C) will be activated (lamp ignition is possible).

4. Secure the correct position by turning in both spring lock screws (A).



Image 4-2
Lamp mounting

Cooling circuit check

While the cover is open, check the manometer. The manometer is situated on the top right of the lamp house compartment.

The pressure should be ± 1 bar. When lower than 0.5 bar, a corrective action should be taken by qualified service personnel. Follow the instructions given in document **R59770032**, "Cooling liquid refilling for XLM".

4. Mounting a new lamp unit



Image 4-3
Cooling liquid pressure

4.2 Optical Z-axis alignment

What has to be done after operating the lamp ?

After the lamp has been operated for many run times, a decrease of light output will be observed. An optical realignment of the lamp to the z-axis will compensate the decrease in light output.

How to re-align ?

1. Put a lightmeter in the center of the screen.
2. Put a full white image on.
E.g. Enter the menu structure and go to *Installation* → *Internal patterns* → *Full white*.
3. Remove the 4 nuts of the lamp cover and take off this cover.



Image 4-4
Lamp cover

4. Carefully turn nut (A) clockwise, using a nutdriver 10mm or wrench 10mm, for maximum light fall on the screen.

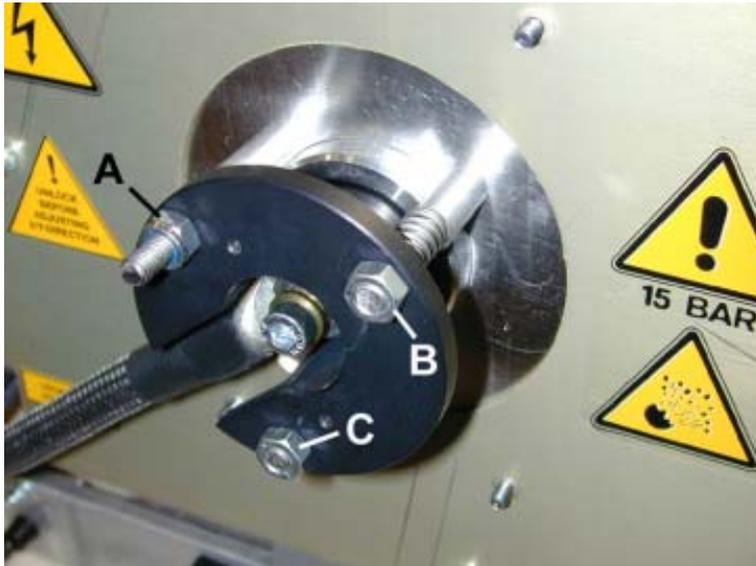


Image 4-5
Lamp detail

When over that maximum, turn a little bit counterclockwise to reach the maximum light output again.

5. Turn now nut B and C, without using any force, until they are close to the lamp foot.
Note: If you force nut B and C, the light output will be over its maximum.
6. Put the lamp cover back on its place with the 4 nuts.

4.3 Closing the projector cabinet

How to close ?

1. Hook on the side cover.



Image 4-6
Removing side cover

2. Pull the cover towards the projector.
3. Close the 3 quarter turn fastener studs by turning a quarter turn clockwise.