# Lamp Kit

## Installation Manual
for iDR600 -SIM 5+/5R - iConH250/H500

R9841822 - R9841823
R9841826 - R9841827

R5976839/03
26/03/2010

BARCO

Visibly yours

**Barco nv Simulation Division**
Noordlaan 5, B-8520 Kuurne
Phone: +32 56.36.82.11
Fax: +32 56.36.84.86
E-mail: info@barco.com
Visit us at the web: www.barco.com

**Barco nv Presentations**
Noordlaan 5, 8520 Kuurne
Phone: +32 56.36.82.11
Fax: +32 56.35.86.51
E-mail: presentations.bid@barco.com
Visit us at the web: www.barco.com

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## Disposal Information

This equipment has required the extraction and use of natural resources for its production. It may contain hazardous substances for health and environment. In order to avoid the dissemination of those substances in the environment and to diminish the pressure on natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end of life equipment in a sound way.

The crossed-out wheeled bin symbol invites you to use those systems. If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administrator. You can also contact us for more information on the environmental performances of our products.

## Guarantee and Compensation

Barco provides a guarantee relating to perfect manufacturing as part of the legally stipulated terms of guarantee. On receipt, the purchaser must immediately inspect all delivered goods for damage incurred during transport, as well as for material and manufacturing faults Barco must be informed immediately in writing of any complaints.

The period of guarantee begins on the date of transfer of risks, in the case of special systems and software on the date of commissioning, at latest 30 days after the transfer of risks. In the event of justified notice of complaint, Barco can repair the fault or provide a replacement at its own discretion within an appropriate period. If this measure proves to be impossible or unsuccessful, the purchaser can demand a reduction in the purchase price or cancellation of the contract. All other claims, in particular those relating to compensation for direct or indirect damage, and also damage attributed to the operation of software as well as to other services provided by Barco, being a component of the system or independent service, will be deemed invalid provided the damage is not proven to be attributed to the absence of properties guaranteed in writing or due to the intent or gross negligence or part of Barco.

If the purchaser or a third party carries out modifications or repairs on goods delivered by Barco, or if the goods are handled incorrectly, in particular if the systems are commissioned operated incorrectly or if, after the transfer of risks, the goods are subject to influences not agreed upon in the contract, all guarantee claims of the purchaser will be rendered invalid. Not included in the guarantee coverage are system failures which are attributed to programs or special electronic circuitry provided by the purchaser, e.g. interfaces. Normal wear as well as normal maintenance are not subject to the guarantee provided by Barco either.

The environmental conditions as well as the servicing and maintenance regulations specified in the this manual must be complied with by the customer.

# 1. SAFETY

## 1.1 Safety Guidelines

This procedure is intended for use only by qualified service technicians who have been trained and authorized by Barco !

**WARNING:** Hot Surface and Risk of Explosion:Switch the projector to stand by and let it cool down for at least 15 minutes . These lamps consist of a quartz arc tube operating at very high temperature and high pressure which may explode suddenly. There is a risk of personal injury and property damage from hot quartz arc tube particles if handled incorrectly.

**WARNING:** Risk of Electrical Shock: Power down the projector and unplug the power cord from the wall outlet. Once the projector is cooled down and the power is off, continue with the procedure.

**WARNING:** Lamp Runtime Warning: Do not exceed the indicated maximum total lifetime of the lamp for safe operation in normal power mode. Do not use it longer ! Always replace the lamp with the BARCO lamp kit.

**WARNING:** UV Radiation Exposure : Never light the lamp if the rear cover (lamp cover) of the projector is removed, unless you wear UV radiation eye and skin protection.

## 1.2 Recycling guidelines

**WARNING:** Do not break or crush lamps because this may pose health and environmental risks when mercury vapors are released.

**CAUTION:** To avoid breaking the lamps, repack carefully when storing and transporting them.

**CAUTION:** Lamps may not be disposed as normal household trash.

Contact your local waste disposal facility for information on the recycling program for HID (High Intensity Discharge ) lamps in your area.

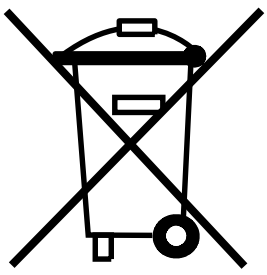

Image 1-1

## Disposal options for mercury-containing lamps

- Recycle through a municipal or solid waste district household hazardous waste collection program in accordance with local regulations.
- Direct shipment to lamp recycler
- Shipment through a hazardous waste transporter

# 2. KIT DESCRIPTION

### Overview

- Description

## 2.1 Description

### Kit description

Depending on the number ordered the kit contains following parts :

- UHP lamp (1 or 2)
- Lamp installation Manual : R5976839

| | R9841822 | R9841823 | R9841826 | R9841827 |
|---|---|---|---|---|
| # lamps | 1 unit | 2 units | 1 unit | 2 units |
| Lamp type | R842925 | R842925 | R856775 | R856775 |
| Projector type | iD R600 (Pro)<br>iD R600+ (Pro)<br>iD LR6<br>iD NR6<br>SIM 5+<br>SIM 5R<br>iCon NH5<br>iD NW5 | iD R600 (Pro)<br>iD R600+ (Pro)<br>iD LR6<br>iD NR6<br>SIM 5+<br>SIM 5R<br>iCon NH5<br>iD NW5 | iD H250<br>iD H500<br>iCon H250<br>iCon H400<br>iCon H500 | iD H250<br>iD H500<br>iCon H250<br>iCon H400<br>iCon H500 |

The lamp replacement procedure is the same (independent of the projector type), the images in the replacement procedure are taken on a Barco iD R600 projector.

### Lamp description

- Type : UHP
- Power: 250 Watts
- Max lifetime (monitored in projector software) : 1500 h

Image 2-1
Lamp view

# 3. LAMP REPLACEMENT PROCEDURE

## 3.1 Reset lamp runtime

### 3.1.1 Reset runtime

#### When to reset the lamp runtime ?

The lamp runtime should only be reset when placing a new lamp.

**WARNING: Lamp runtime reset as well as the lamp replacement can only be done by a Barco authorized technician.**

#### How to reset the lamp runtime in the iQ/iD ?

1. Press **MENU** to activate the Tool bar
2. Press → to select the *Lamp* item
3. Press ↓ to Pull down the *Lamp* menu
4. Use ↑ or ↓ to select *Reset runtime*
5. Press → to pull down the menu
6. Use ↑ or ↓ to select the lamp to be reset

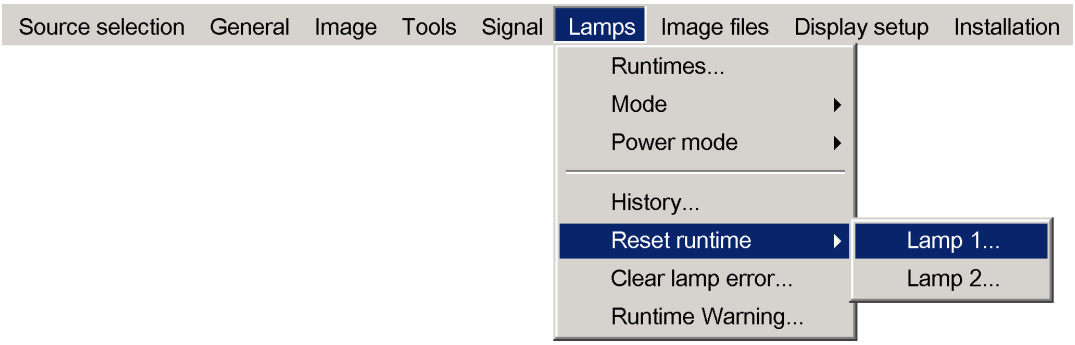


Image 3-1

7. Press **ENTER**

   A dialog box is displayed

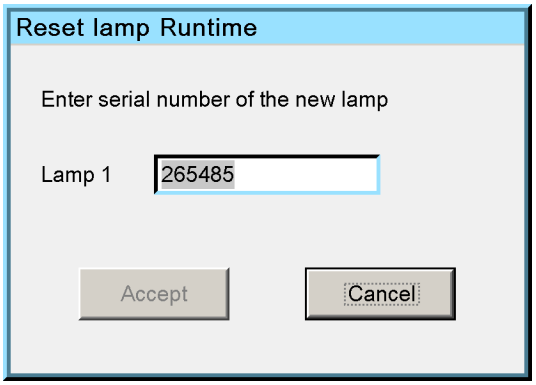


Image 3-2

8. Use ←or →, the numeric keys on the remote, or the keypad to change the serial number of the lamp (serial number 0000000 will not be accepted).

**WARNING: Lamp runtime reset as well as the lamp replacement can only be done by a Barco authorized technician.**

### How to reset the lamp runtime in the SIM5Plus?

1. Press **MENU** to activate the Tool bar
2. Press → to select the *Lamp* item
3. Press ↓ to Pull down the *Lamp* menu
4. Use ↑ or ↓ to select *Reset runtime*
5. Press → to pull down the menu
6. Use ↑ or ↓ to select the lamp to be reset

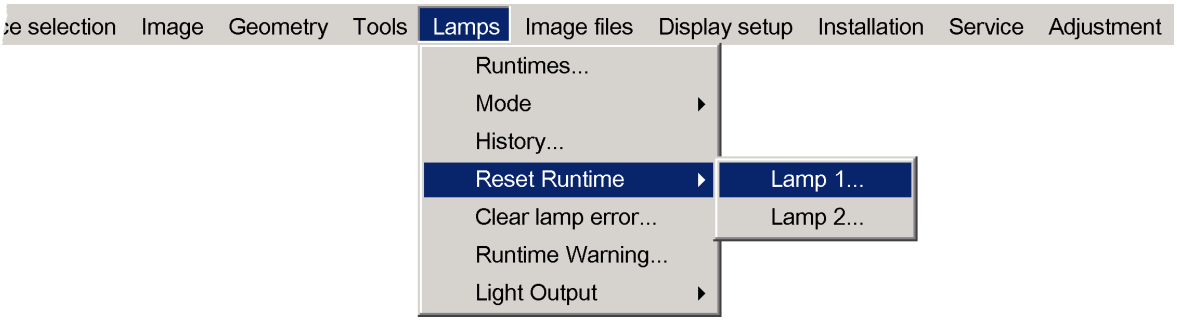


Image 3-3

7. Press **ENTER**

   A dialog box is displayed

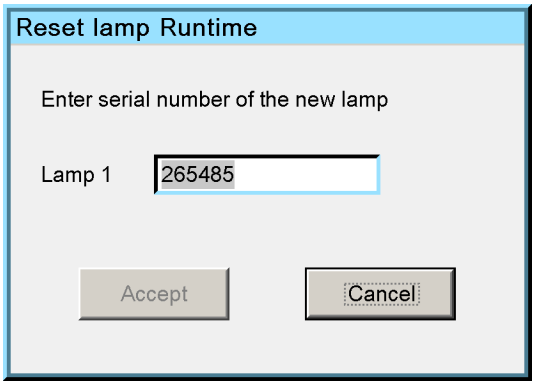


Image 3-4

8. Use ←or →, the numeric keys on the remote, or the keypad to change the serial number of the lamp (serial number 0000000 will not be accepted).

**WARNING: Lamp runtime reset as well as the lamp replacement can only be done by a Barco authorized technician.**

## 3.2 Removing the back cover

### Necessary tools

a flat screwdriver of 10 mm

### Necessary parts

No parts.

**WARNING: Risk of Electrical Shock: For replacement procedures power down the projector and unplug the power cord from the wall outlet. Once the projector is cooled down and the power is off, continue with the replacement procedure.**

### Removing the back cover

1. Turn with a screwdriver the cover lock screw A quarter turn counter clockwise.

Image 3-5
rear cover lock screw

2. Remove the back cover.

Image 3-6
right view of the projector, rear cover removed

## 3.3 Removing the lamp unit(s)

### What has to be done ?

1. The lamp power connection has to be disconnected.
2. The lamp unit has to be removed.

**Perform the procedure for both lamps if necessary.**

**In this procedure lamp1 is replaced, the procedure being the same for lamp2.**

### Necessary tools

No tools.

### Necessary parts

No parts.

### How to remove the lamp unit ?

1. Disconnect the lamp

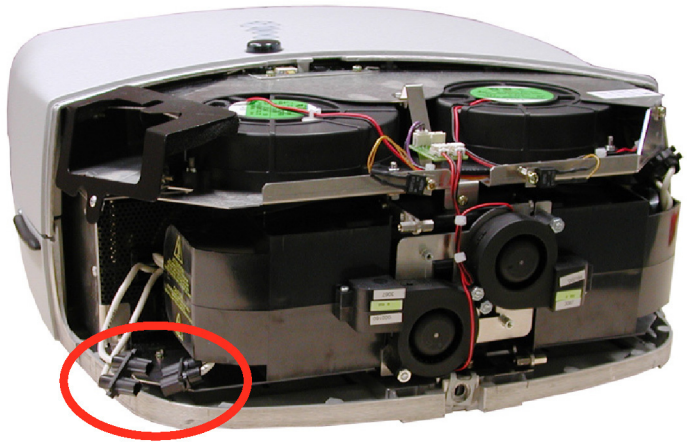

Image 3-7

2. Pull the lamp locking handle to unlock the lamp

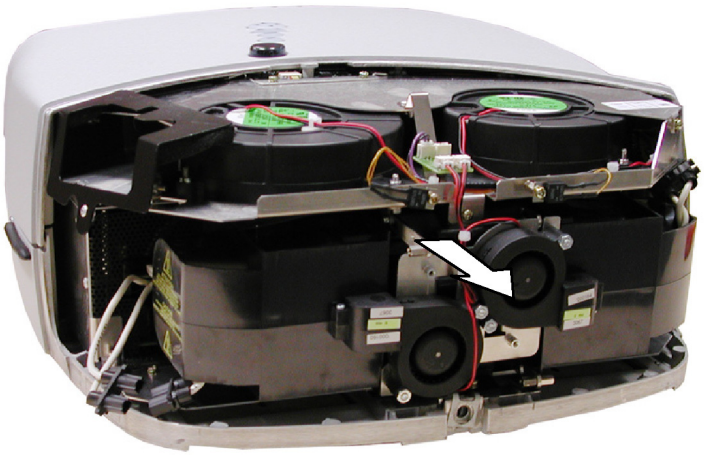

Image 3-8
Unlock the lamp

3. Take out the lamp unit

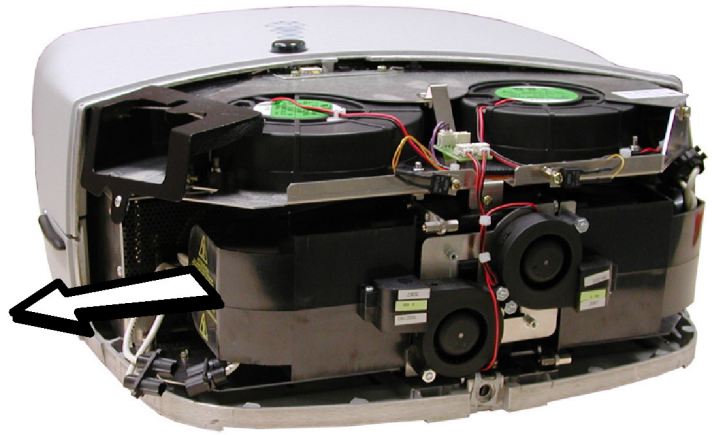

Image 3-9

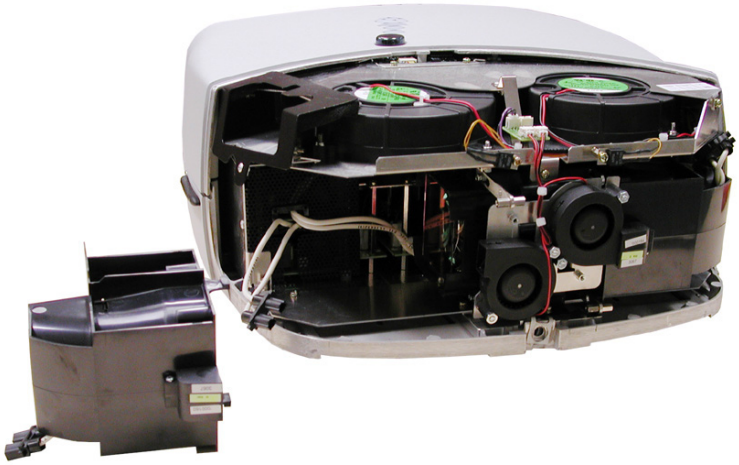

Image 3-10
Lamp removed

## 3.4 Mounting the lamp unit(s)

### What has to be done ?

1. The lamp has to be mounted
2. The lamp has to be connected.

**Perform the procedure for both lamps if both lamps have to be replaced.**

**In this procedure lamp 1 is replaced, the procedure being the same for lamp 2.**

### Necessary tools

No tools.

### Necessary parts

No parts.

### How to mount the lamp unit ?

1. Place carefully the lamp against the frame
2. Push the lamp inwards and push in the lamp locking to lock the lamp
3. Connect the lamp

**CAUTION: Always insure that the lamp is well mounted, locked and in line with the optical frame. If the lamp is misaligned, this will cause damage (by UV radiation) to the optical frame !**

**In some projectors, the lamp mounting mechanism may be more tight . Handle always in a gentle way, never force the lamp locking mechanism, as this may misalign the lamp and damage the projector (see Caution above).**

## 3.5 Mounting the cover.

### Mounting the back cover

1. Replace the back cover.
2. Turn with a screwdriver the cover lock screw a quarter turn clockwise to lock the cover.

Image 3-11

## 3.6 Filter Check

**Some projectors have air filters, the other projectors have a sealed light path and don’t have air filters. The procedure below is only applicable to projectors having those air filters!**

### Filter check

When replacing a lamp, always check the dust filters. If necessary, clean or change them

### How to clean the dust filters ?

1. Place the projector so as to access easily the filter to be cleaned
2. Push the handle downwards to unlock the filter.

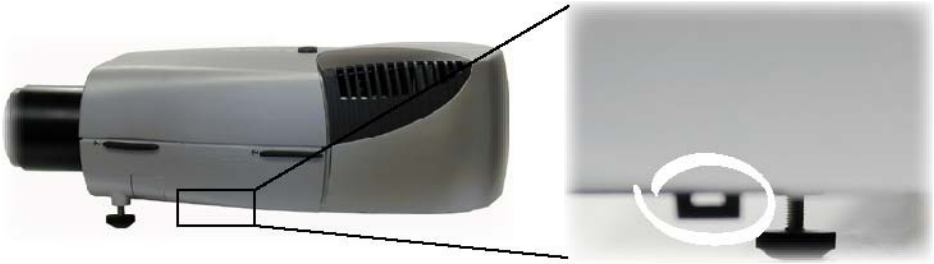

Image 3-12
Location of the engine filter and its handle

3. Slide out the filter

Image 3-13
Lamp filter removal

Image 3-14
lamp & engine filters removed

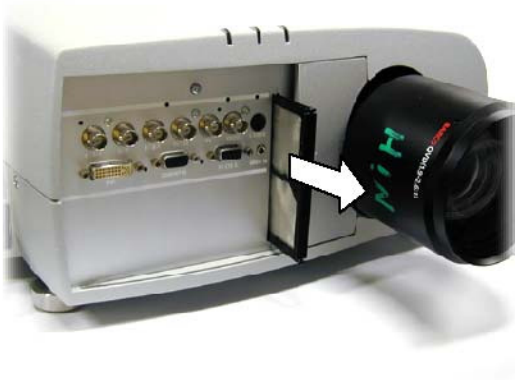

Image 3-15
Input filter removal

Image 3-16
Input filter removed

4. Clean the dust filter with a dry cloth.
5. Re-insert the dust filter by sliding it back in the filter housing.

**It is strongly recommended to replace or clean the dustfilter under the engine on a regular basis. Failing to do so, will strongly reduce the lifetime of the different components.**

**The manufacturer reserves itself the right to refuse warranty repair if the projector was working with dirty dustfilters.**

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