

Lamp Kit for iQ/SIM4/OV DR 120 Projectors



Installation Manual

R9841770 - R9841771

R9841100 - R9841111

R9841760 - R9841761

R5976375/05
20/04/2006

BARCO

Visibly yours

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This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference, in which case the user will be responsible for correcting any interference.

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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.

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.

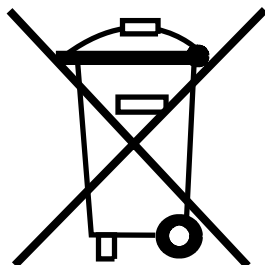


Image 1-1

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 CONTENT

2.1 Contents

Overview

Depending on the Kitnumber ordered the kit may contain 1 or 2 lamps, the lamp power may also differ according to the type of Projector.

	Kitnumber	Description	Quantity	Manual
IQ200/OV DR120	R9841771	120 W Lamp	1	R5976375
	R9841770	120 W Lamp	2	R5976375
IQ300/MGP10/SIM4	R9841111	200 W Lamp	1	R5976375
	R9841100	200 W Lamp	2	R5976375
IQ350/400/500 ¹	R9841761	250 W Lamp	1	R5976375
	R9841760	250 W Lamp	2	R5976375



Image 2-1



CAUTION: Do not touch the cover glass with your fingers. If the lamp is touched, finger prints can be removed by cleaning the lamp with alcohol.

1. The 350 uses the 250 lamp on 200W only

3. REPLACEMENT PROCEDURE IN CASE OF AN IQ PROJECTOR

Overview

- Reset lamp runtime
- Access to the lamp unit(s) in the iQ projector
- Removing the lamp unit(s)
- Mounting the Lamp Unit
- Mounting the cover.
- Cleaning

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).

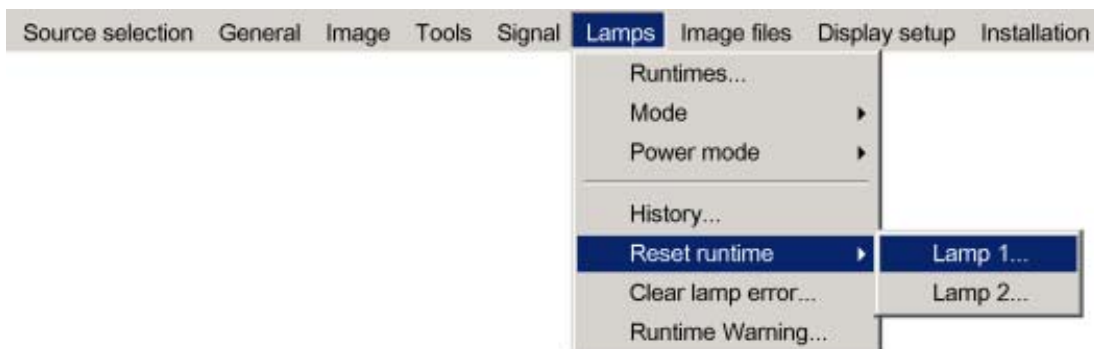


Image 3-1

3. Replacement procedure in case of an iQ Projector



Image 3-2



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).

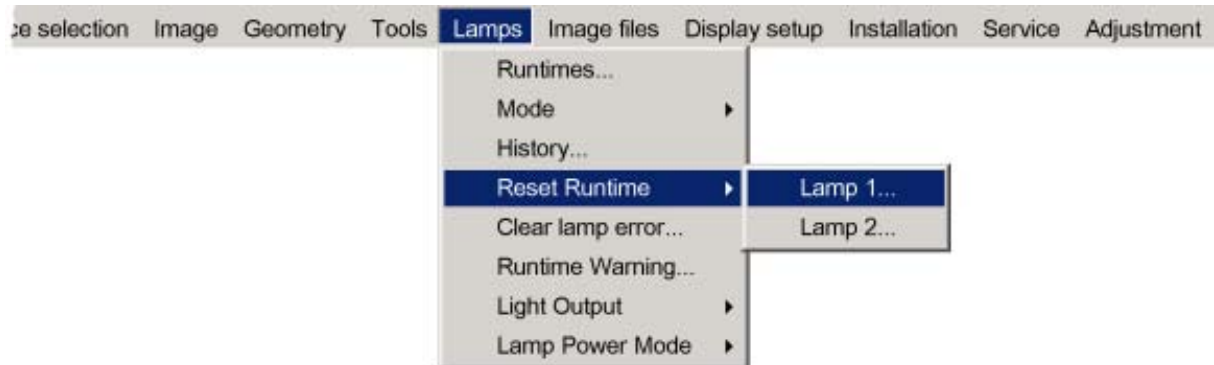


Image 3-3



Image 3-4



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

3.2 Access to the lamp unit(s) in the iQ projector

3.2.1 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)
2. Remove the back cover.
See image 3-6, image 3-7.



Image 3-5
rear cover lock screw



Image 3-6
rear cover removed

3. Replacement procedure in case of an iQ Projector



Image 3-7
right view of the projector, rear cover removed

3.3 Removing the lamp unit(s)

3.3.1 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 3-8)
See image 3-9.
2. Push the lamp locking handle slightly to the left (or to the right for lamp 2) and turn it over to unlock the lamp (image 3-10)
3. Take out the lamp unit (image 3-11)
See image 3-12.



Image 3-8
lamp connector



Image 3-9
disconnected lamp connector

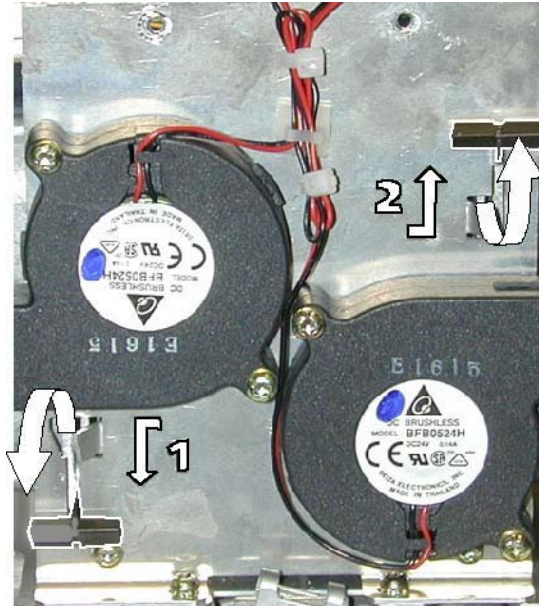


Image 3-10
unlocking lamp 1 & lamp 2



Image 3-11



Image 3-12
Lamp 1 removed

3.4 Mounting the Lamp Unit

3.4.1 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 lamp1 is replaced, the procedure being the same for lamp2.

Necessary tools

No tools.

Necessary parts

No parts.

How to mount the lamp unit ?

1. Place carefully the lamp against the frame

3. Replacement procedure in case of an iQ Projector

2. Push the lamp inwards and turn the lamp locking handle over to lock the lamp (image 3-13)
3. Connect the lamp (image 3-14)



Image 3-13
locking lamp 1 & lamp 2



Image 3-14
Lamp connected



The new 120W lamp driver (B4006511K) has a different connector, therefore an adapting connector is used on the 120W lamp unit.



Image 3-15

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 3-16)



Image 3-16

3.6 Cleaning

How to clean the dustfilters ?

1. Place the projector so as to access easily the filter to be cleaned
2. Push the handle downwards to unlock the filter. (image 3-17)
3. Slide out the filter (image 3-18, image 3-19, image 3-20)
See image 3-21.
4. Clean the dust filter with a dry cloth.
5. Re-insert the dust filter by sliding it back in the filter housing.

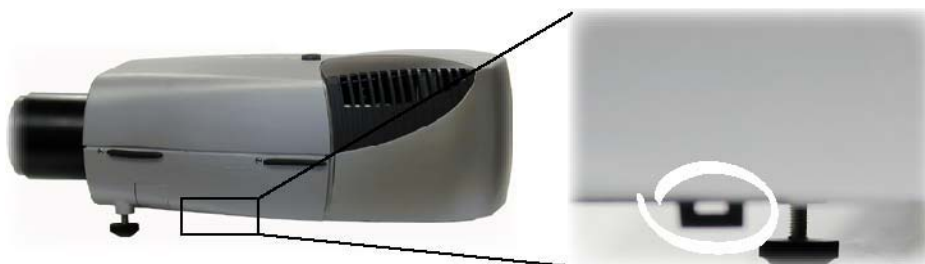


Image 3-17
Location of the x-cube filter and its handle



Image 3-18
Lamp filter removal



Image 3-19
lamp & X-Cube filters removed

3. Replacement procedure in case of an iQ Projector

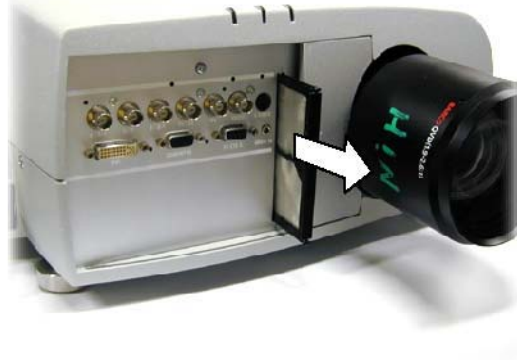


Image 3-20
Input filter removal



Image 3-21
Input filter removed



If the airflow is falling under a predetermined threshold value a warning will be displayed on the screen.

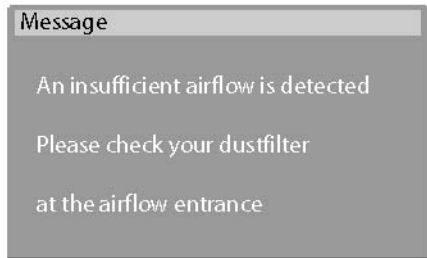


Image 3-22

At that time it is strongly recommended to replace or clean the dustfilter under the X-cube. Failing to do so, will strongly reduce the lifetime of the LCD's and the analyzers.

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

4. REPLACEMENT IN CASE OF A SIM 4/OV DR120 PROJECTOR

4.1 Lamp replacement



CAUTION: Do not touch the cover glass with your fingers. If the lamp is touched, finger prints can be removed by cleaning the lamp with alcohol.

When to replace the lamp?

The lamp must be replaced at the end of lifetime.

Necessary tools

hexagonal ball driver (5)

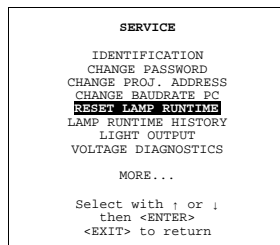
Start up

1. Push the cursor key ↑ or ↓ to highlight Reset Lamp Run Time. (menu 4-1)
2. Press **ENTER**.

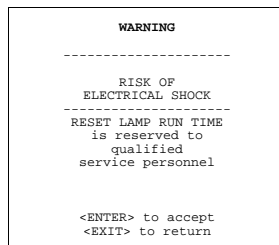
The following warning will be displayed :

Risk of electrical shock. Reset lamp run time is reserved to qualified service personnel. (menu 4-2)

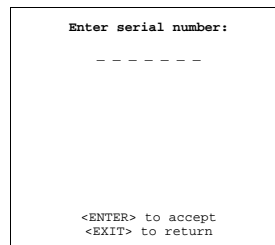
3. Press **ENTER**
See menu 4-3.
4. Enter the serial number of the new lamp
5. Press **ENTER**



Menu 4-1



Menu 4-2



Menu 4-3

How to replace the lamp ?

1. Unscrew the hexagonal screw (image 4-1)
2. Open the side door (image 4-2)
3. Disconnect the lamp (image 4-3)
4. Use the long screwdriver to move locking handle downwards to unlock the lamp. (image 4-4)
5. Remove the lamp (image 4-5)
6. Mount the new lamp
7. Move lamp locking handle upwards
8. Close and secure the side door

4. Replacement in case of a SIM 4/OV DR120 projector



Image 4-1
Location of side door screw

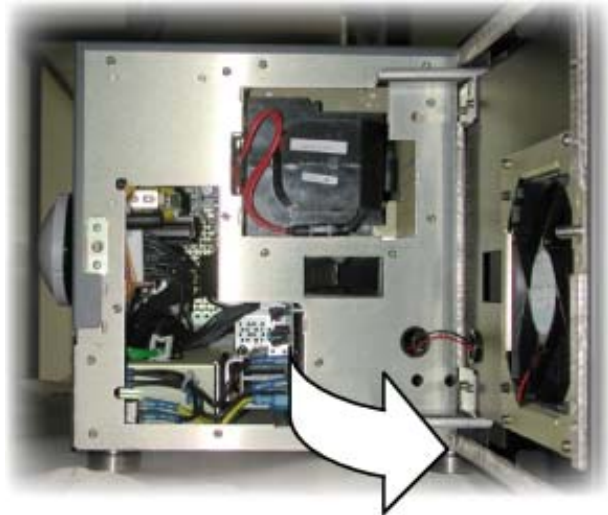


Image 4-2
side door open



Image 4-3
Lamp disconnected

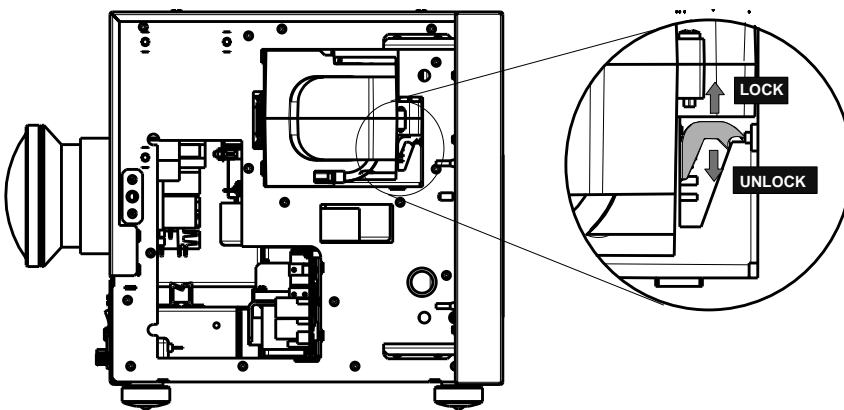


Image 4-4
Lamp locking handle

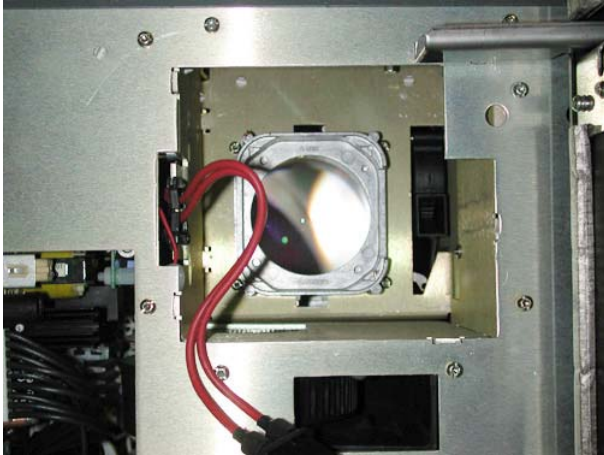


Image 4-5
Lamp removed



When replacing the lamp it is strongly recommended to check and clean (or replace if necessary) the dustfilters.

4. Replacement in case of a SIM 4/OV DR120 projector

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