

Installation for UV-lamp kit

Instructions

Installation instruction for UV-lamp kit

1. Removing the UV-lamp
2. Installation of the UV-lamp kit
3. Adjustment procedure - maximum light adjustment

Numbers in brackets in the instructions refer to numbers in the figure below.

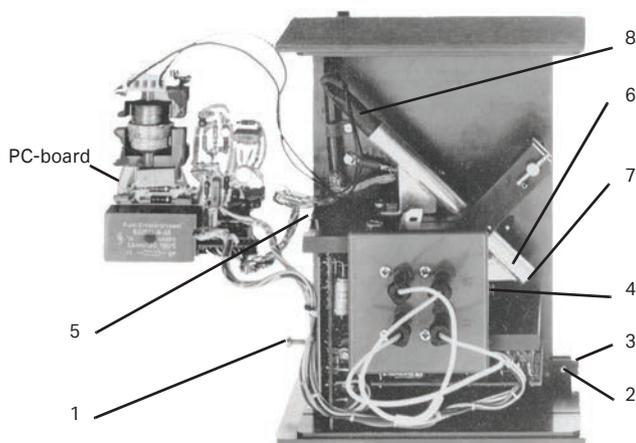


Fig 1. Positions referred to in the instructions.



WARNING

The Control Unit must be disconnected from the mains and from the Optical Unit before removing the UV-lamp kit.

Removing the UV-lamp kit

| Step | Action |
|------|---|
| 1 | Disconnect the Control Unit from the mains electricity supply and disconnect the Optical Unit from the Control Unit |
| 2 | Remove flow cell assembly and the two screws (1) and locking washers which secure the case of the Optical Unit to the bottom of the chassis. |
| 3 | Loosen the two Phillips screws (2) on the top rear until the top of the case can be lifted clear of the catches (3) and then pull the case forward and remove it. |
| 4 | Use an hex key (2.5 mm) to unscrew the upper (4) of the two screws securing the lamp holder. Note carefully the position of the insulation sleeve and washer. |

| Step | Action |
|------|--|
| 5 | Unscrew the screw (5) which secures the PC-board and then pull it out from the chassis as shown in the Figure. |

| | |
|---|--|
| 6 | Disconnect the lamp from the PC-board. |
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UV-lamp secured with stop ring

Loosen the screw on the stop ring with an appropriate tool (3 mm hex key or medium size straight screw driver). Bend the upper part (6) of the lamp holder slightly (2-3 mm) upwards and withdraw the UV-lamp from it by gently pulling it outwards.

UV-lamp secured with clamp mounted inside the lamp holder

Remove the black cover (7) from the upper side of the lamp holder. Use a pencil, wooden stick or similar to press on the top of the UV-lamp in order to press it out of the lamp holder for about 1 cm. Now bend up the upper part of the lamp holder for about 2-3 mm and fully withdraw the lamp from it.

Installation of the UV-lamp kit

Note: Do not touch the glass body of the UV-lamp, clean the UV-lamp with lamp cleaning tissue before inserting it.

| Step | Action |
|------|--|
| 1 | Old UV-lamp secured with stop ring: Place the clamp, delivered with UV-lamp kit (19-3807-01) into the lower end of the lamp holder. Insert the new UV-lamp into the lamp holder and press in home to the bottom. |
| 2 | Old UV-lamp secured with clamp: Refit the black cover (7) to the top of the lamp holder, insert the new UV-lamp into the lamp holder and press it home to the bottom. |
| 3 | Remount the upper lamp holder screw (4), ensuring that the insulations are correctly mounted. |
| 4 | Reinstall the flow cell assembly and perform the maximum light adjustment described below. |
| 5 | Replace the case and check the instrument functions properly. If the fault persists, contact a Cytiva service technician. |

Maximum light adjustment

Note: During this adjustment stray light may escape from the UVsource and protective glasses must be worn.

Note: Make sure the measuring cell is clean, cell is dry, or that the liquid in it is distilled water, and that there are no air bubbles trapped in it.

| Step | Action |
|------|--|
| 1 | Remove the case of the Optical Unit and the PC-board, as described in Installation of the UV-lamp kit, on page 1 , and make sure the flow cell assembly and filter corresponding converters are installed. |
| 2 | Connect the Optical Unit to the Control Unit and plug into the mains supply. |
| 3 | Connect the UV-monitor to a Recorder, in case of a UV-2 connect the 1 mm channel. |
| 4 | Switch on the UV-monitor and the recorder and allow them to warm up for about 10 minutes. |
| 5 | Set the range of the recorder to 100 mV and of the UV-monitor to Short and then zero the recorder with its zero control. |
| 6 | On the UV-monitor set the Mode Switch to %T and turn the Zero control fully clockwise. |
| 7 | On the UV-monitor select a range giving a pen deflection of approximately 50% and then turn the lamp along its longitudinal axis until maximum pen deflection occurs. Note: <i>Grip the protruding part (8) of the UV-lamp firmly with the fingers and turn the lamp. Do not apply any angular force to the protruding part of the lamp - it may break.</i> |
| 8 | Set the UV-monitors range selector to Short and the recorders to 10 mV. Adjust the recorder zero to bring the pen to the 50% line of the chart paper and mark this position. |
| 9 | Set the Mode Switch to AU and adjust the Zero control to its mid position, that is five full turns from either end of its range. |
| 10 | Set the range to the position which gives the biggest possible pen deflection on the chart paper and observe the deviation of the pen from the 50% line (as adjusted in step 8). |
| 11 | If necessary, adjust the lamp by turning it slightly to bring the pen as close as possible to the 50% line. |
| 12 | Mount the PC-board in position and reassemble the Optical Unit. |

Ordering information

| UV-lamp kit | Code No. |
|-------------|------------|
| UV-lamp kit | 19-3807-01 |

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