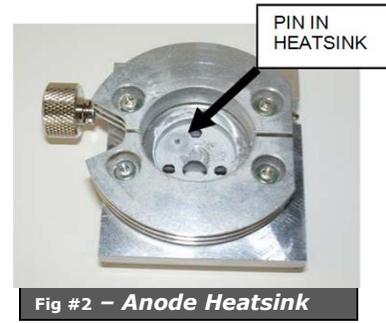


Lamp Replacement Guide : “C” Bodied Xenon Arc Lamps

Step 1. Remove the old lamp.

Pentax EPK*i* Remove the three 6-32 screws from the rear (anode) of the lamp assembly. Retain these screws and re-use. Release the spring latch on the front (cathode) of the lamp and remove the lamp from the heatsink and clean all existing thermal compound from the heatsinks.

NB. The front heatsink has a cooling ring that must be re-used. This cooling ring also holds the infra-red (IR) filter which must be replaced and is included in your kit.



Conmed/Linvatec LS7701 Remove the 2 brass electrodes and slide out lamp and heatsinks from the housing. Remove the compression clips from the heatsinks and carefully remove the lamp and clean all existing thermal compound from the heatsinks. The front heatsink has a cooling ring and infra-red heat filter which is reused. Replacement clips and IR filters are available from MediLUME if needed.



When performing lamp replacement, it is important to properly apply thermal grease or compound to those areas of the lamp that mate with heatsinks. This compound is designed to lower the thermal impedance of air gaps between these surfaces. A thin layer is all that is needed between mating metal parts. A thicker layer should be applied to the ceramic area that mates with the rear heatsink. Reference Figure 5. Re-apply thermal grease to the heatsinks and cooling ring where the lamp will make contact.

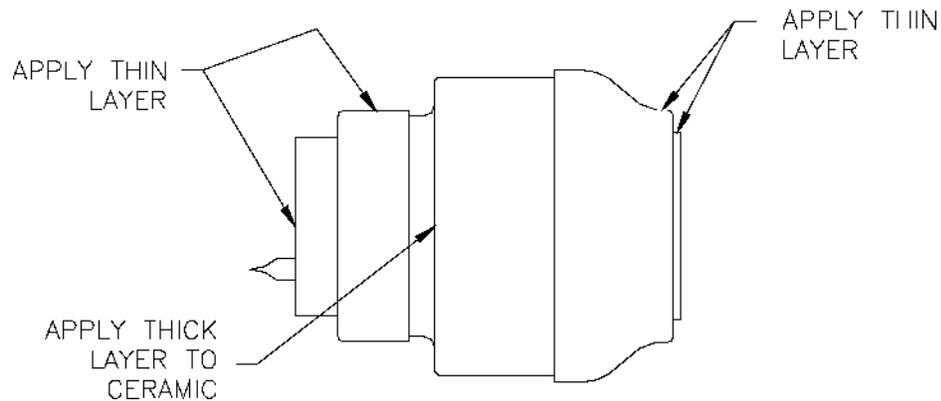


Figure 5.
Thermal Compound Application

Do not apply the compound to the lamp window. Any compound on the window or the IR filter should be removed with a lint free tissue paper moisten with isopropyl alcohol.

Step 3. Align new lamp – anode end (rear heat sink)

The lamp has several threaded openings and a pinch off tube at the rear. It is important not to damage the pinch-off tube. If the pinch-off tube is damaged, the internal gas could be released and render the lamp useless.

Align the lamp such that the pinch-off tube fits through the opening in the anode heatsink

Pentax EPK*i* - align the three threaded holes align with the screw openings in the heatsink & ensure that the pin which is found in the rear of the heatsink is in alignment with the mating socket on the lamp base. Insert and tighten the three screws removed during Step 1.

Conmed/Linvatec LS7701 – insert the lamp into the anode heatsink, ensure it is fully seated and reinstall the compression clips (2)

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Step 4. Front end alignment.

Pentax EPK*i* Insert the front of the lamp such that it fits all the way into the cooling ring. Place the assembly on a flat surface such that the two heatsinks are square to each other. Engage the spring latch or heat sink clips to hold the front end in place. The assembly is ready for use.

Conmed/Linvatec LS7701 insert the lamp into the front heat sink, again ensuring that it is fully seated and that there is no thermal paste on the sapphire window – if so remove all traces with a lint-free cloth moistened with isopropyl alcohol. Place the assembly on a flat surface such that the two heatsinks are square to each other. Install the compression clip (1) on the front heatsink

Slide the completed subassembly into the plastic housing observing the lamp direction noted on the housing label. Reinstall the electrodes, ensuring that the wafer springs are between the electrodes and the plastic housing body. Do not over-tighten the electrodes.

Remove the 2 Philips head screws which attach the timer PCB to the underside of the housing and replace with timer-board supplied with kit.

The assembly is ready for use.

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