



Pentax EPK-i Xenon Lamp Replacement Guide

This is an assembly guide that will instruct how to replace the xenon lamp for the Pentax EPK-i 300 watt light source. The Luxtel replacement lamp, CL1576, has been designed to be identical in performance to the original lamp source.

Pentax has designed a pin in the anode heatsink to deny the use of a standard xenon lamp thus requiring the use and expense of an OEM provided lamp. Luxtel has provided the appropriate relief in the base of our lamp such that it will fit accordingly and save you the expense of buying an OEM lamp.

Lamp and nomenclature guide:

C-body type lamp – the elliptical lamp used in the Pentax EPK-i system, see figure 1.

Anode heatsink - see figure 2.

Cathode heatsink – see figure 3.

Complete assembly – see figure 4.

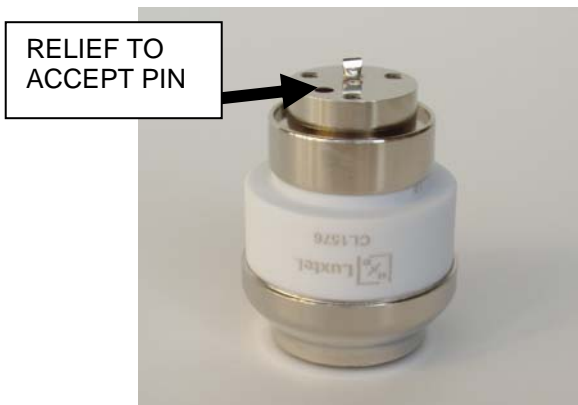


Figure 1.
Luxtel C body lamp for EPK-I (CL1576)

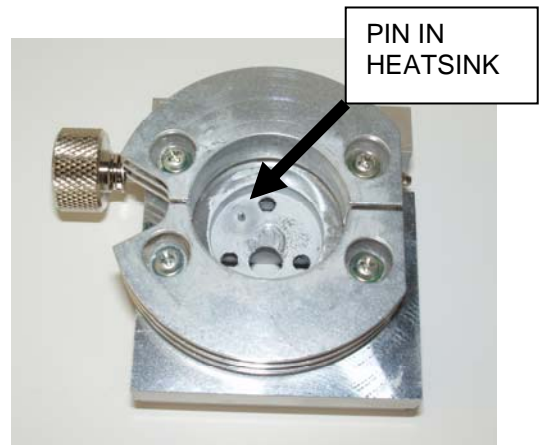


Figure 2.
Anode heatsink

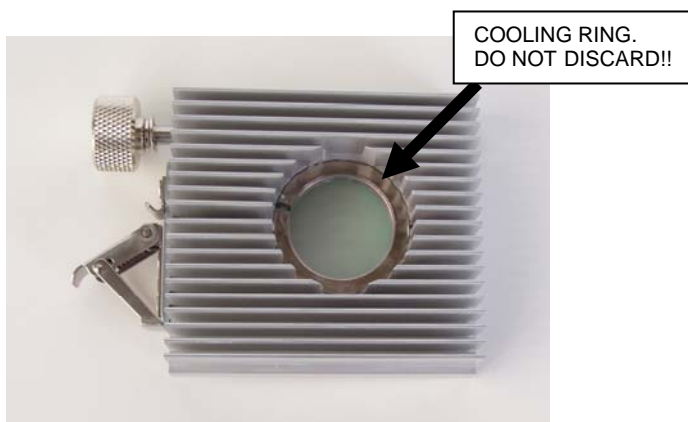


Figure 3.
Cathode heatsink
Shown with cooling ring and IR filter



Figure 4.
Lamp assembly with Luxtel C body lamp

Lamp Replacement

Step 1. Remove the old lamp.

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. The front heatsink has a cooling ring that must be re-used. This cooling ring also holds the infra-red (IR) filter which can be re-used as well. Luxtel provides a new IR filter with each CL1576 replacement lamp.

Step 2. Apply thermal grease.

When performing lamp replacement, it is important to properly apply thermal grease or compound to those areas of the lamp that mate with heatsinks only. 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.

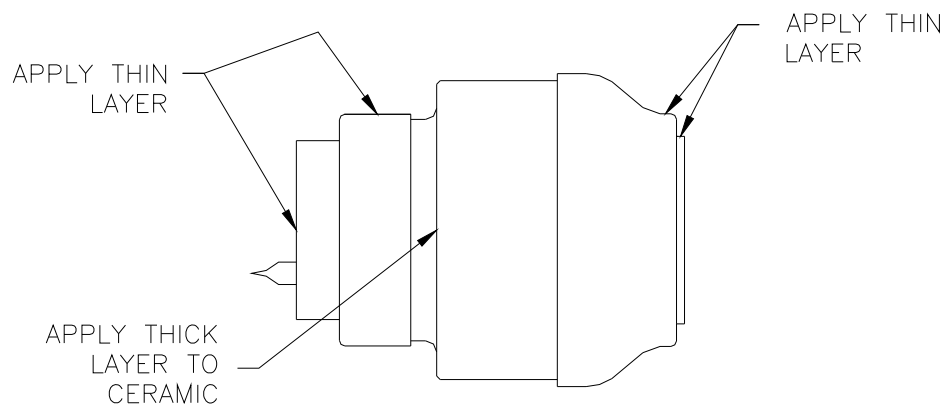


Figure 5.
Thermal Compound Application

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. If needed moisten the tissue with isopropyl alcohol or xylol/xylene if available.

Step 3. Align new lamp – anode end.

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 and the three threaded holes align with the screw openings in the heatsink. The special opening in the rear of the lamp will accept the pin that can be found in the rear of the heatsink. Insert and tighten the three screws removed during Step 1.

Step 4. Front end alignment.

Insert the front of the lamp such that it fits all the way into the cooling ring. This may be easier if the cooling ring is completely removed from the heatsink and applied to the lamp first. Align the split of the cooling ring with the split of the heatsink. Then insert the lamp with cooling ring into the heatsink. Place the assembly on a flat surface such that the two heatsinks are square to each other. Engage the spring latch to hold the front end in place. Assure the IR filter is in place and held by the spring wire. The assembly is ready for use.

Warranty

Luxtel has been making replacement lamps since 2001, we are confident that our replacement lamps are fit for the purpose for which we recommend them when installed as instructed. We are pleased to field questions from customers to enable them to retrofit our eco-friendly, cost effective products. Lamp life will match the OEM products when installed as instructed.