



## Stryker Xenon Lamp Replacement Guide – X7000 & X8000

This is an assembly guide that will instruct how and under what circumstances to replace the lamp and/or lamp assembly (complete with heatsinks) for the Stryker X7000 and X8000 light sources. In each instance, the Luxtel replacement products have been designed to be identical in performance by focusing the output light at the correct location for use in the Stryker systems.

### Lamp and nomenclature guide:

C-body type lamp – the elliptical lamp used in the original Stryker X7000, see figure 1.

Screw base lamp – the elliptical lamp used in the Stryker X8000 and then more recently retrofitted into the X7000, see figure 2.

Lamp housing – the black nylon component that holds the lamp and heatsink – see figure 3.

Lamp assembly – elliptical lamp with heatsinks, see figure 4.



Figure 1.  
C body lamp

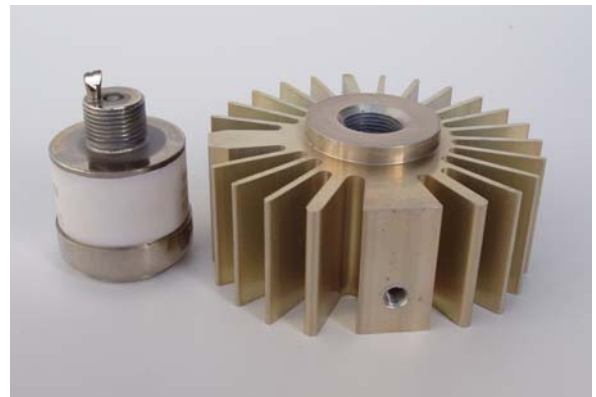


Figure 2.  
Screw base lamp with heatsink



Figure 3.  
Lamp housing

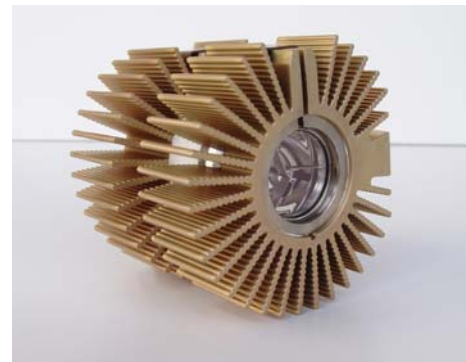


Figure 4.  
Lamp assembly

Chips and Data loggers – the information storage device that tracks time and serial # of the lamp. See figure 5.



Figure 5. iButton data logger found on the Stryker X8000

Once a Luxtel lamp assembly with heatsinks has been utilized, future replacements will require only Luxtel lamp purchases. The Luxtel solutions are eco-friendly by emphasizing the re-use of mechanical components whenever possible. In total, a more cost effective end user solution is provided.

### **Stryker X8000**

For reference, the Stryker part number for the complete lamp module is 220-201-000. This lamp module uses a screw base type lamp and has an iButton data logger mounted on the housing. The lamp has never been individually sold by the OEM which requires you to purchase an entire lamp module.

Luxtel offers a lamp assembly, CL1567, that consists of an elliptical lamp with heatsinks and heat sink clips. This requires the end user to re-use the Stryker module housing and brass connectors. Simply remove the brass connectors, slide out the lamp and heatsinks, replace with the Luxtel lamp assembly and replace and re-tighten the brass connectors.

The Luxtel lamp assembly will focus the lamp's output at the correct spot thus creating a more affordable and eco-friendly solution for lamp replacement vs. entire module replacement.

For future lamp replacements order the CL1495.

### **Stryker X7000**

For reference, the Stryker part number for the complete lamp module is 220-191-000. The lamp has never been individually sold by the OEM which requires you to purchase an entire lamp module.

This system was originally designed with a C-body elliptical lamp. For those users who have a module that is equipped with the original C-body lamp, all they need to do is order a replacement lamp, CL1492. They will re-use the housing, heatsinks, heatsink clips and brass connectors. As always, thermal grease should be applied to those areas of the lamp that mate with the heatsinks. Pay careful attention to the reference Figure 6 for areas that need thermal grease application.

Stryker has recently (late 2008) begun to use the screw base type lamp in the replacement modules for the X7000. If you have an X7000 module with one of these, you will need to re-use the black housing only. Luxtel offers a lamp assembly, the CL1571, that consists of the original C body type lamp, heatsinks, heatsink clips and brass connectors. Once this has been installed, future lamp replacements will require only the Luxtel lamp CL1492 and not the entire assembly.

NOTE: The heatsink assemblies for the X7000 and X8000 are unique and different to each other in the location of where the lamp sits within the housing and where the data chip is located. Therefore, do not intermix the heatsinks from either system, this will cause alignment issues with the focused output of the lamps.

### **Module Timers (RFID chips and iButton data loggers)**

The purpose of these devices is to measure time elapsed during the lamp lifecycle and to encourage you to replace the module after a set time period. They also record the serial # of the module so that the light source will "reject" the same module being used twice in succession, just as a simple lamp replacement would require!

Successful countermeasures for the RFID chips include:

- swapping housings amongst different units, the light source sees a new unique serial number and re-sets the time accordingly
- degaussing the RFID chips; some field reports indicate success just leaving the housings out of the units for extended periods of time
- recording the time when lamp replacement occurs, thus ignoring the actual time shown on the light source, and subtract the start time from current display time to discover elapsed time. You need to make the decision about when to replace the lamp.

## Lamp Replacement

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 6 for clarification.

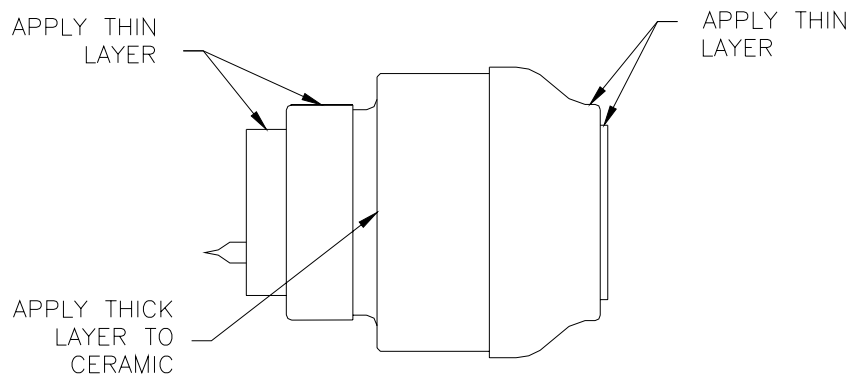


Figure 6.  
Thermal Compound Application

Do not apply the compound to the lamp window. Any compound on the window should be removed with a lint free tissue paper. If needed moisten the tissue with isopropyl alcohol or xylol/xylene if available.

## 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.