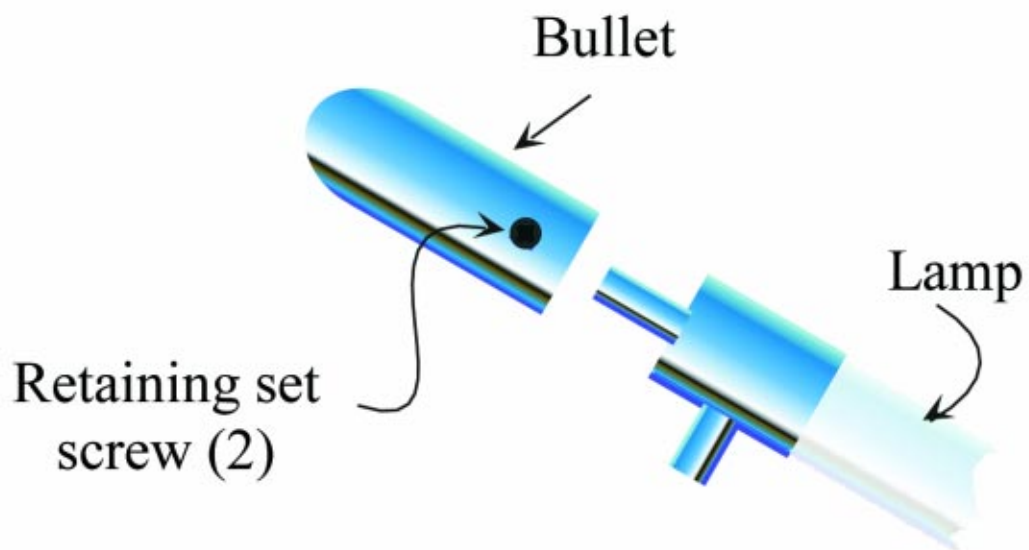


# Lamp

All Syncrolite units use Ushio or Osram Xenon lamps. Installation requires the addition of the focus bullet on the end of the stock lamp to allow the lamp an up and down motion within the reflector in order to achieve variable beam size.



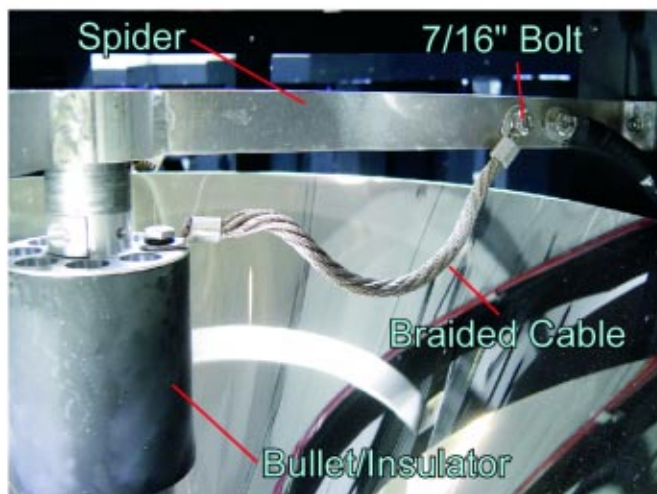
# Changing or Installing Xenon Lamps

The Syncrolite Xenon product line utilizes high-powered Xenon lamps which are under up to 16 atmospheres of pressure. Handling of lamps should be with extreme caution utilizing face shield, gloves, helmet and apron and by professional personnel only. Lamps occasionally explode and can inflict severe bodily damage. **HANDLE WITH CARE.**

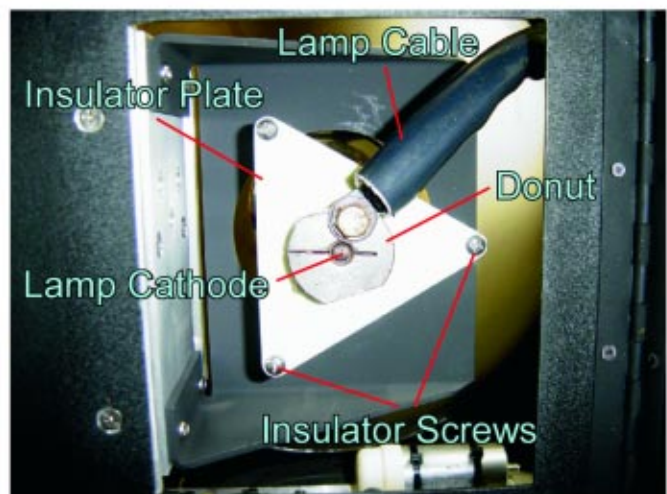
The 3000W and 7000W Xenon lamps are high voltage devices and all maintenance or disassembly for repair should be carried out with power off. Before you begin, kill all power and remove 3-phase power input plug and DC cables.

1. After disconnecting power, open lamp access door at base of lamp-head and remove access panel from front of lamphead.
2. Disconnect braided lamp cable from spider at the anode end of the lamp and insulated lamp case from the donut connector at the base of bulb, keeping the focus plate insulator attached to the lamp.
3. Remove insulator screws and extract the lamp with insulator and focus drive bullet still attached.

## Anode Attachment



## Cathode Attachment

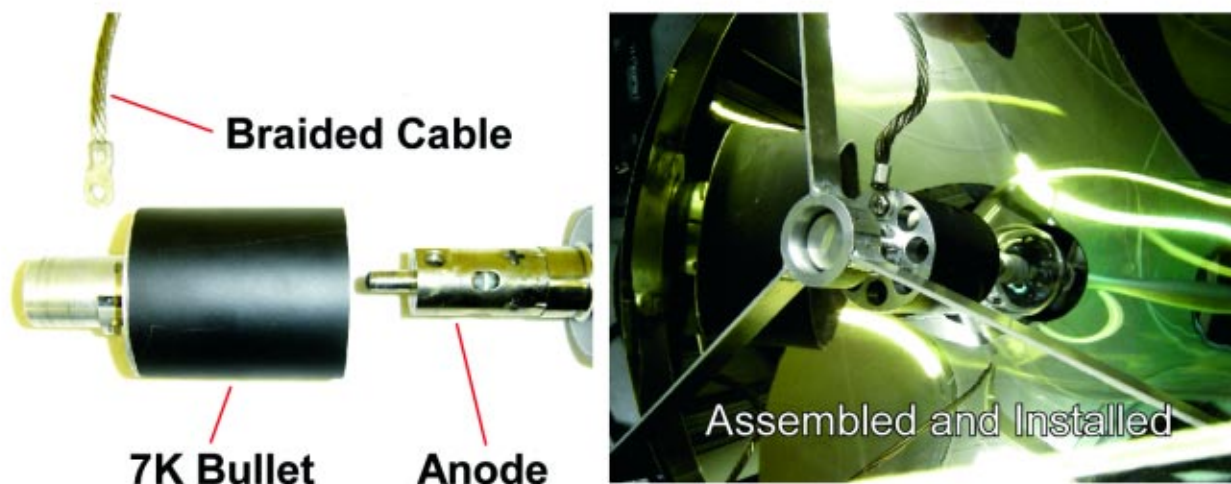


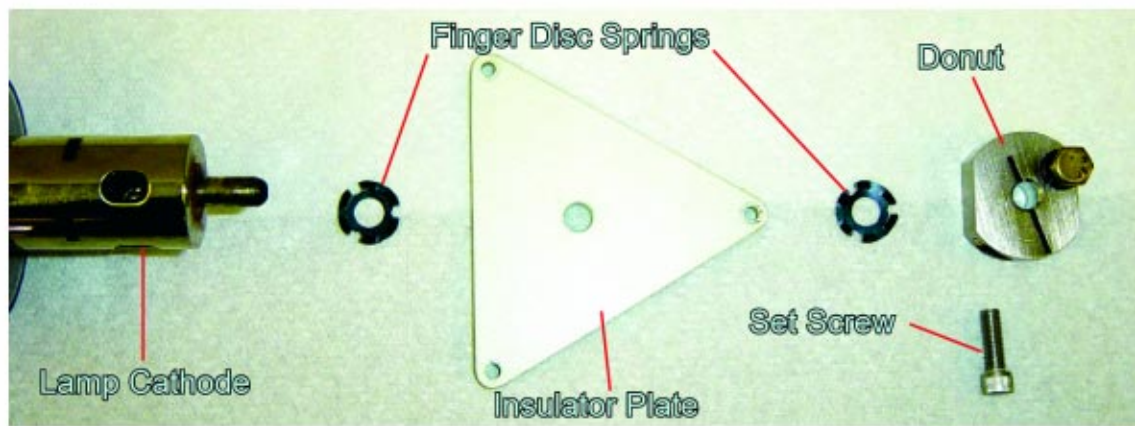
- Place bulb in protective clamshell casing and carefully remove the donut connector and finger disc springs from the lamp. Take care not to lose the finger disc springs between the lamp insulator base and donut. Remove and keep the bullet from the other end of the lamp.
- Take new lamp and attach appropriate Syncrolite focus bullet to the anode (-) of the lamp. Tighten braided lamp cable and set screw to the appropriate torque. (Note: Braided cable bolts to bullet for the 7K, while it threads directly into the anode in the 3K)

### 3K Xenon Bulb (in clamshell case)



### 7K Xenon Bulb





6. Put finger disc spring over cathode (+) end ferrule. Flat side of spring disc should be against the insulator plate.
7. Attach insulating base plate. Place second finger disc spring on ferrule. Again, flat side of spring must be against insulator plate.
8. Tighten donut connector using hex key while holding insulator plate and spring clips tight to lamp end. Lamp should be snug but not tight, as spring clips act as shock absorbers.
9. Install lamp bullet and tighten both set screws. Next, place anode (-) end with bullet into the spider inside lamp housing.
10. First tighten connections of lamp insulator to focus drive plate at lamp base, then attach conductors at both lamp ends. Check all connections for cleanliness and make sure they are securely in place.
11. **DO NOT TOUCH LAMP QUARTZ!** - Any fingerprints will cause the lamp to fail. If touched, clean the lamp with alcohol.
12. Replace the access cover and close and fasten rear access door.
13. Reconnect power, strike the lamp and run for 15 minutes and observe.



Note: All terminals and connectors must be clean and tight. Loose connectors at any point create resistance and cause overheating. Overheating compromises the lamp seals and reduces lamp life. Terminals should be checked before every use and cleaned and re-tightened periodically. Always clean inside of donut and end ferrule. Burnt terminals must be replaced. Refer to maintenance/pre-show check list.

# **MX1000 Lamp**

\* Information coming soon.