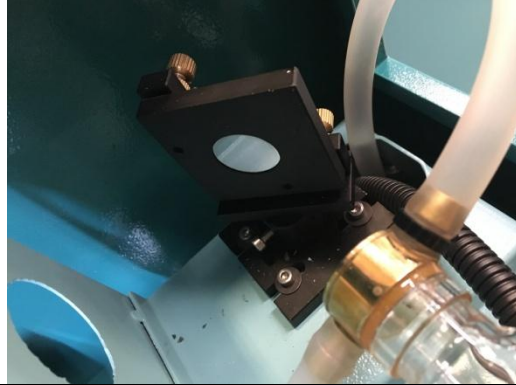


BGL Lens Cleaning

WARNING: DO NOT LEAN MIRRORS OR LENS UNTILL THEY ARE COMPLETELY COOL

Firstly remove all power to the machine and lift up rear cover, locate the mirror on the right hand side.



Clean the face of the mirror using lint free cloth and acetone (Boxford lens cleaning kit)



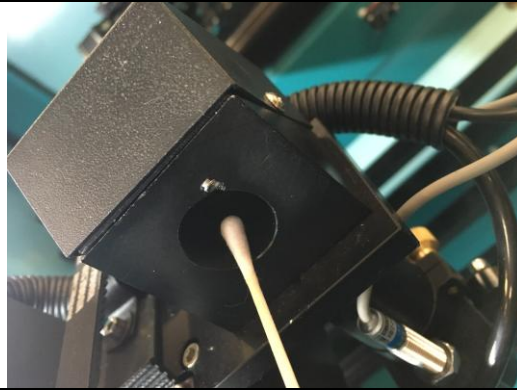
Next locate the 2nd mirror inside of the machine on the left hand side. Same again, clean the face of the mirror.



The final mirror is on the top of the laser head, move the axis so the head is close to the centre of the machine.



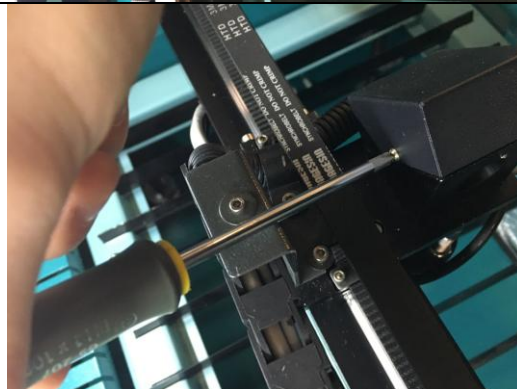
You could always clean the mirror with a cotton bud provided with the Boxford lens cleaning kit, if you are not confident disassembling the head slightly.



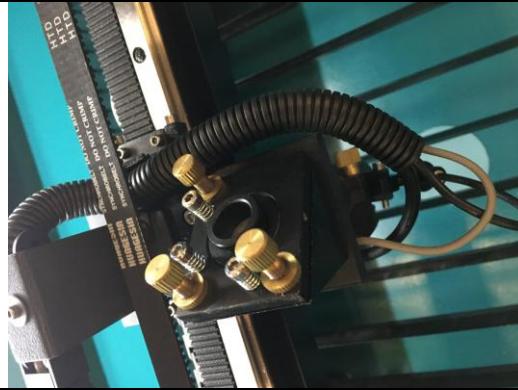
Use a Philips screw driver to remove the 2 screws holding on the cover for the mirror, one at the front of the head.



Also remove the 2nd screw from the back of the head.



After removing the cover you will see a thumb screw, loosen this, should only be finger tight.



Remove the thumb screw to be left with the mirror.



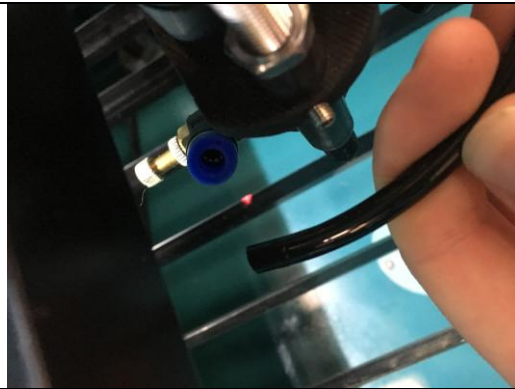
Remove the mirror and clean the face of the mirror, remembering to tighten the thumb screw once the mirror is seated in its correct position.



Now to clean the lens at the bottom of the laser head, start by locating and removing the air assist pipe.



Using the pneumatic fitting, press the blue part downwards and pull the pipe out.



After removing the air assist pipe, loosen the brass knob on the laser head to release the bottom part of the head.



Once removed from the top part, unscrew the pneumatic fitting from the head, this should only be finger tight.



Once removed you should be left with this section, unscrew the bottom of the head to reveal the lens.



Depending on which BGL machine you have, the lens could be located in the top part of the cone or the bottom part.



If you are not comfortable removing the lens you could clean this part of the lens from both sides.



If you are comfortable removing the lens, loosen the thumb screw which should only be finger tight and take the lens out ready for cleaning.



Clean the lens the same as the mirrors but remember which way the lens was taken out, the laser will not cut properly unless the lens is the correct way, the domed section needs to be facing upwards when the whole unit is back together on the machine.



So when putting the lens back in place the domed part needs to be facing downwards as the unit is upside down. Make sure to tighten the thumb screw finger tight and check by rattling the head that the lens isn't loose.



Once you have reversed all the steps and put the head back together, remember to push the head as far up as it will go and as straight as possible to the beam before tightening the brass knob.

