There are 4 different lens and mirrors that will need to be checked and cleaned.

Beam window

#2 mirror

#3 mirror

Lens
**BEAM WINDOW**

If you have air assist you will need to remove the square cover by turning slightly to the left and sliding to the right.

Clean the mirror with lens cleaner and Q-tip or lens tissue.

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**#2 MIRROR**

You will need to remove the cover by undoing the black thumb screw, sliding the cover to the right, and lifting up.

Clean the mirror with lens cleaner and Q-tip or lens tissue.

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**#3 MIRROR / LENS**

Remove the 3 thumb screws and slide out – there should be no resistance.

This is often the dirtiest and most important.

Clean the mirror and lens with lens cleaner and Q-tip or lens tissue.
Dirty, cracked, damaged lens and mirrors are the #1 cause of poor quality.

Reasons to check lens and mirrors are:

- Not engraving as well as normal
- Not cutting as well as normal
- Cutting/engraving better in certain spots
- Laser not firing or really weak

How often you check the optics is dependent on the material you use, how efficient your exhaust is, how often you run the laser and how clean the environment is.

We recommend doing a visual check daily, only cleaning if needed, or anytime a new operator takes over.

On average lens and mirrors will last 5+ years if well maintained and cared for properly.