

Cobalt 3000 trouble shooting guide

Rev A 6-26-15

Computer won't communicate with the laser.

Is the laser powered on?

In Lasercad click on "Select Mode" button. Double click on the checked device then click find Com.

Did you install the USB driver – found on the installation CD.

Check the USB cable going into the back of the laser to make sure it's not plugged in upside down.

Try another USB port on your computer.

Try another PC

Laser won't etch the plate.

Make sure you did not peel the clear film off of the metal plate. You should only remove the blue film.

Check your power settings and parameters in Lasercad. (Right hand side of the screen under Layer options)

Check your focus to the Crystalaze plate using the focus tool located on the mirror post inside the laser.

Check to see if the red interlock light is on. (Located inside the right hand, back corner of the machine)

Make sure that all mirrors, and the focal lens are clean.

Make sure your focus lens is installed with the curved side facing up.

Danger! - *wear standard safety glasses when performing the following steps.*

Remove the top lid, and check the focal height using the focus tool attached to the mirror post. This tool can also be used to bypass the interlock on the right side of the laser for test and alignment purposes.

Check the laser alignment – Follow the video procedure located on our ftp site here:

- <ftp://portal.inkcups.com/>

User Name: Laser

Password: Cobalt1234

Make sure the laser tube located on the back of the laser is not loose. If it is, then tighten and following the alignment procedure.

Check the assembly attached to the back laser tube that carries the back mirror and expander. It should not be loose. If it is, then tighten and following the alignment procedure.

Check the BNC cable that attaches the tube to the rear panel. – Warning - Do not remove this cable while the laser is powered on. You can damage the RF driver.

Table does not return to front the load position after executing a job.

On the side control panel, press and hold the down arrow to make the table return. Once it's out, press Origin button. This is necessary every time the laser is powered on/off.

Plate table does not move in or out.

Check the Manufacturing Parameters in Lasercad. Make sure they're set to factory settings.

Remove the bottom access panel and check the Y belt and lead screw assembly. Make sure the lead screw rotates when using the arrow keys located on the side control panel.

Poor etch quality – rough edges.

Check for wear on the X belt – missing teeth.

Check X motor belt for wear – missing teeth.

Check X belt, and X belt motor tension.

Run the backlash adjust procedure – Found on the ftp site.

Make sure the focus lens is installed with the curved side facing up.