

Adjusting the Red Pointer Beam Quality

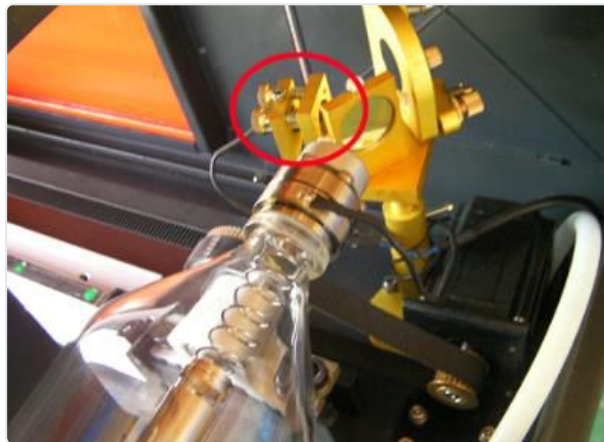
RSD-SUNMAX Series
SUNMAX LASER

About this document: This is an English translation of the Japanese original prepared by SUNMAX LASER for reference purposes. In case of any discrepancy, the Japanese original shall prevail. Specifications are subject to change without notice.

Adjusting the Red Pointer Beam Quality

This technical document explains how to adjust the beam quality of the red pointer on the RSD-SUNMAX-RD series.

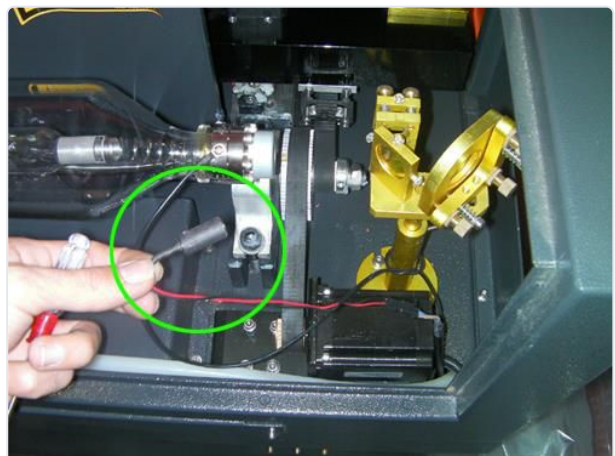
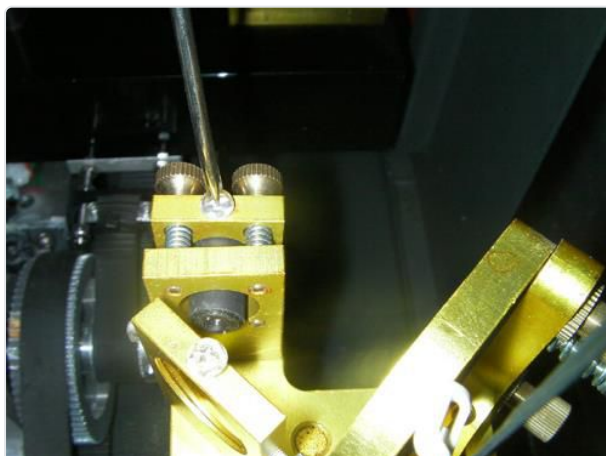
The red pointer and the beam-spot adjustment screws are located behind the upper rear door (or can be reached by removing the protective cover on the left side of the machine).



Perform the beam quality adjustment described here when problems occur such as the beam spot not coming into position even after adjusting it with the adjustment screws, or the red light becoming diffused.

Step 1: Remove the screw

The red pointer is secured by one screw at the top. Using a screwdriver, loosen the screw just enough that the red pointer can be removed.



Step 2: Remove the red pointer

Step 3: Turn on the power to the machine

Insert the key into the keyhole on the right side of the switch and turn it to the right.

Then turn the switch to the right.

The red pointer is now ready to operate.



Step 4: Press the red pointer switch

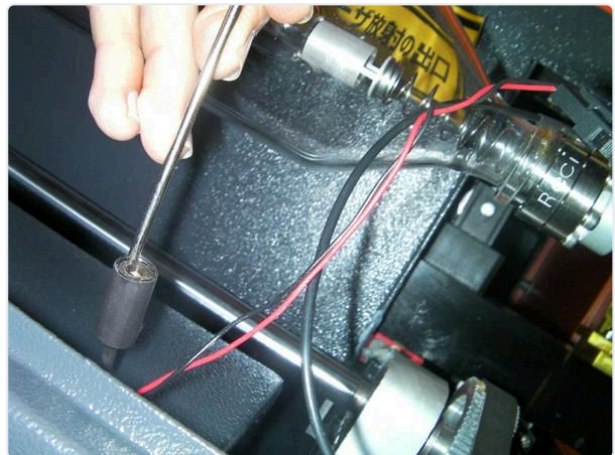
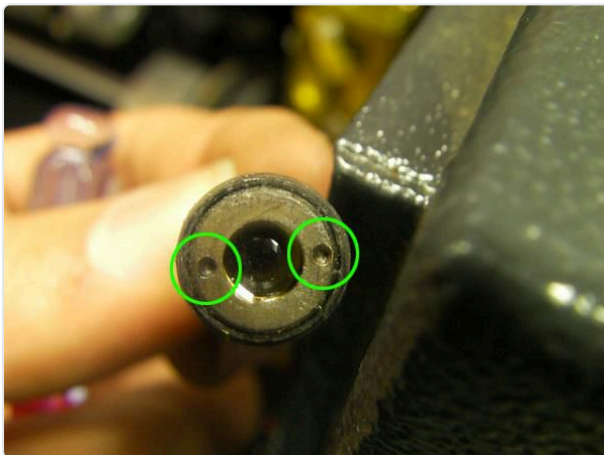
The beam quality is adjusted while the red pointer is operating.

Caution: Staring directly into the red pointer for an extended time may harm your eyes. Take care not to look at it continuously.



Step 5: Adjust the beam quality

If you look straight down into the red pointer from the emission aperture, you will see two small holes.



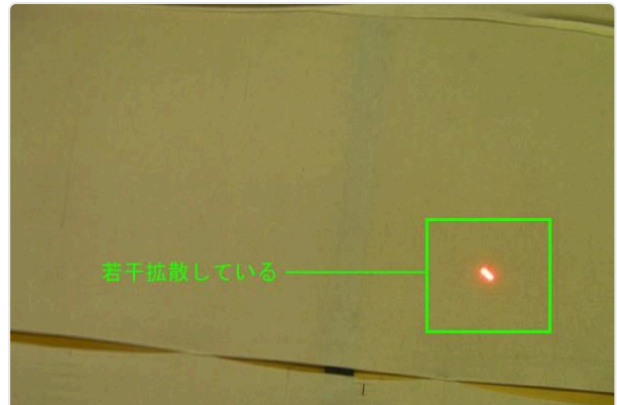
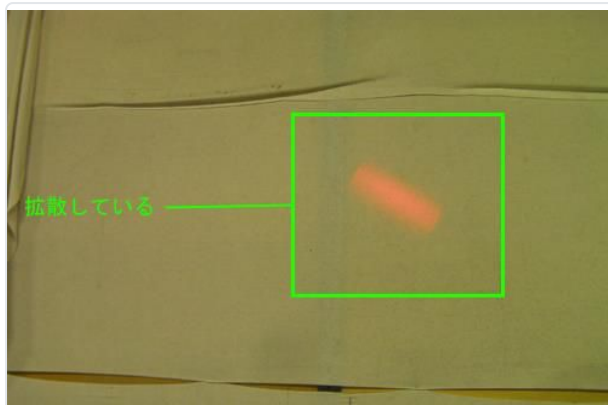
You can adjust the beam quality by turning these holes clockwise or counterclockwise, in a circular motion.

Because the holes are small, prepare a thin, pointed object (such as a pen or a tool). In this example, a screwdriver is used.

Turning too far clockwise or too far counterclockwise will both cause the beam to diffuse. The beam quality stabilizes at roughly the midpoint. This adjustment is difficult unless you make it while actually watching the red light.

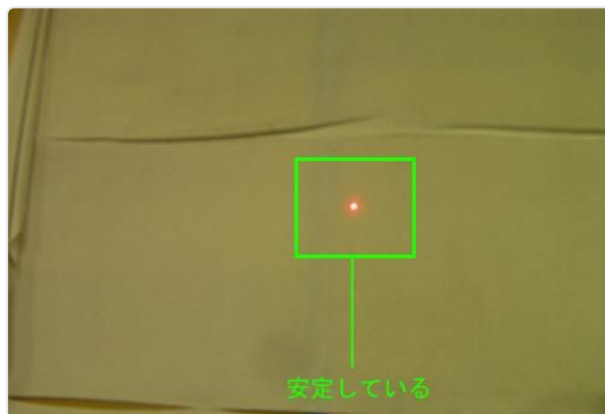
Project the red pointer's beam onto a wall some distance away from you (about 3 m).

Check the beam quality.



- Major adjustment required
- Fine adjustment required

Adjustment complete



This completes the beam quality adjustment of the red pointer.

Return the red pointer to its original position. Do not forget to reinstall the screw described in Step 1.

Afterward, use the adjustment screws to make the final position adjustment.

For how to adjust the adjustment screws, refer to the instruction manual supplied with the machine.