

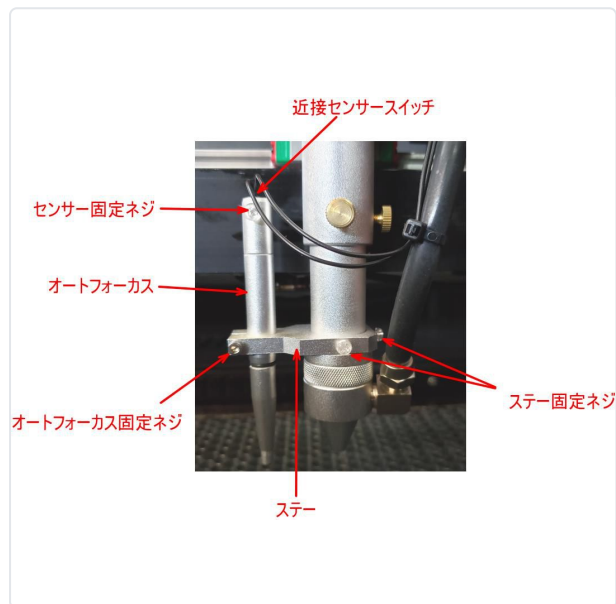
RD Series — Autofocus Adjustment

RSD-SUNMAX Series
SUNMAX LASER

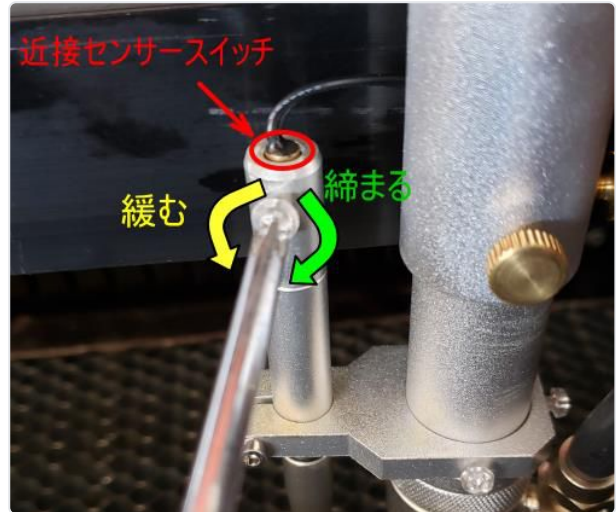
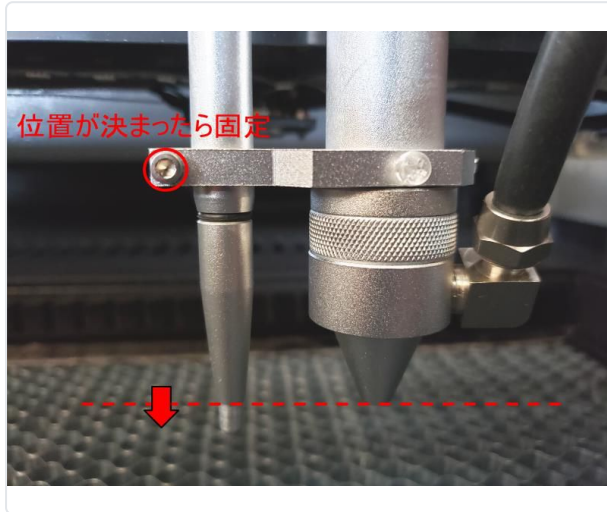
About this document: This is an English translation of the Japanese original prepared by SUNMAX LASER for reference purposes. In case of any discrepancy, the Japanese original shall prevail. Specifications are subject to change without notice.

RD Series — Autofocus Adjustment

External View of the Autofocus Unit



Precautions for Installation



Caution: When securing the autofocus unit, mount it so that the tip of the autofocus unit sits slightly below the beam outlet of the laser head. If the tip of the laser head strikes the table before the tip of the autofocus unit does when the autofocus operates, damage may result.

The proximity sensor switch is held in place by the sensor fixing screw.

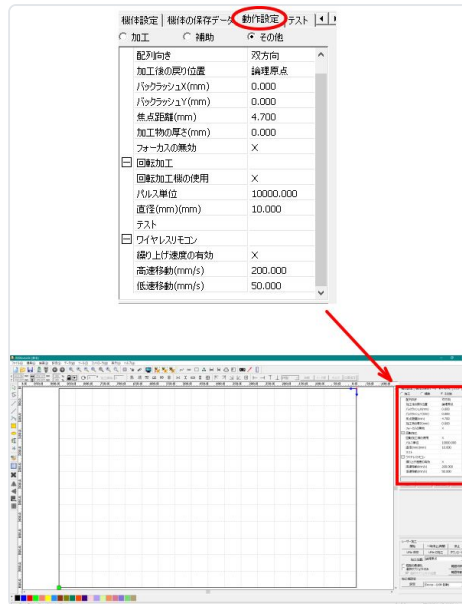
If the mounting position of the proximity sensor switch shifts by even a few millimeters, the autofocus will not function correctly. For this reason, if autofocus operation is unstable, fine-tune the mounting position of the proximity sensor switch.

Setting the Autofocus Return Amount

1. Place a piece of wood, an acrylic sheet, or similar material under the laser head.
2. Run the autofocus operation.
3. Using the focus gauge supplied with the laser machine, check whether the focal distance is correct. If it is correct, no setting change is needed.
4. If the focal distance set by the autofocus operation differs from the focus gauge, the setting must be changed.

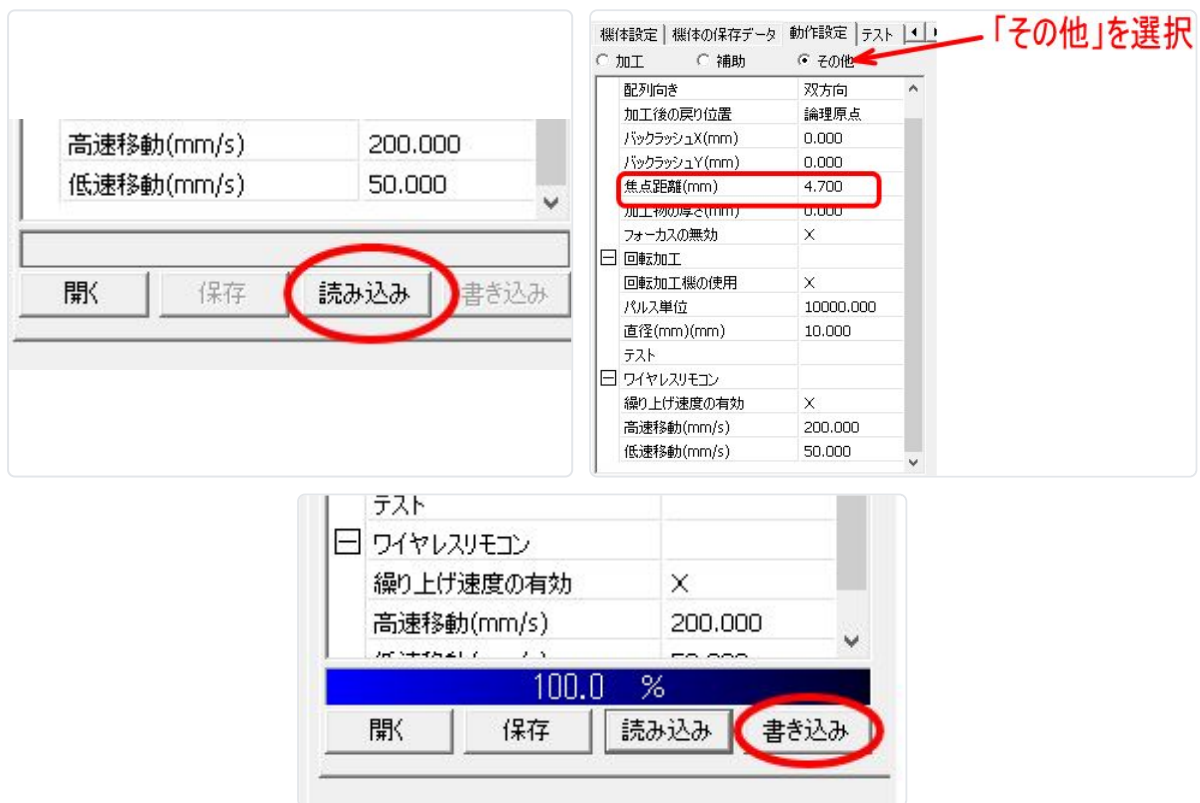
Setting Procedure

In RDWorks, click the "Operation Settings" tab in the processing settings pane.



First, click "Read" to load the setting values from the laser machine.

Select "Other" and change the "Focus Distance" setting value.



If the focal position is too close, increase the value; if it is too far, decrease it. The unit for the origin offset setting value is [mm].

After changing the setting value, click "Write" to apply it to the laser machine's settings.

- Return to step 2 and run the autofocus operation again, then compare the resulting distance with the focus gauge. Repeat steps 2 through 4 until the distance matches that of the focus gauge.

