

Leveling the Table

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.

How to Level the Table

This technical document explains how to adjust the left-right level of the auto-lift table on SUNMAX series machines.

The auto-lift table on SUNMAX series machines is built so that the left and right sides are driven independently. On the 4030, a single stepper motor drives the sides independently via a belt on the underside, while models 6040 and larger use two stepper motors to drive each side independently.

Consequently, vibration or impact during transport can cause the left and right sides to go out of level. When this happens, the table must be re-leveled.

① Open the lower front door.



Opening the front door reveals the two stepper motors.

Caution: The layout of the stepper motors and belts varies by model and production lot. The adjustment procedure itself is the same on all machines, so compare these instructions against your actual machine as you work.

② Be sure to turn off the power to the laser machine.

③ Grip either the left or right belt by hand and push and pull it firmly.



The ball screw supporting the auto-lift table rotates, and the table surface moves up or down.

Because the layout differs by model and production lot, and the up-and-down response to pushing and pulling depends on where you grip the belt, start by pushing and pulling only slightly and observe how the table behaves.

Caution: Pushing and pulling the belt requires some force. Applying too much force may cause injury from the recoil or cause the belt to come off the pulley, so use care.

Pushing and pulling one of the belts moves the table surface on that side up or down, allowing you to level the auto-lift table. Use a level meter or similar tool to bring the table level.

Caution: A large height difference between the left and right sides can damage the auto-lift table. Do not use this method to level a tilted workpiece for processing.

You may grip any part of the belt. Choose a spot that is easy to work with.



