

## Sutter Instrument P-2000 Laser-based Micropipette Puller: How To Prepare Your Instrument for Shipping or Relocation

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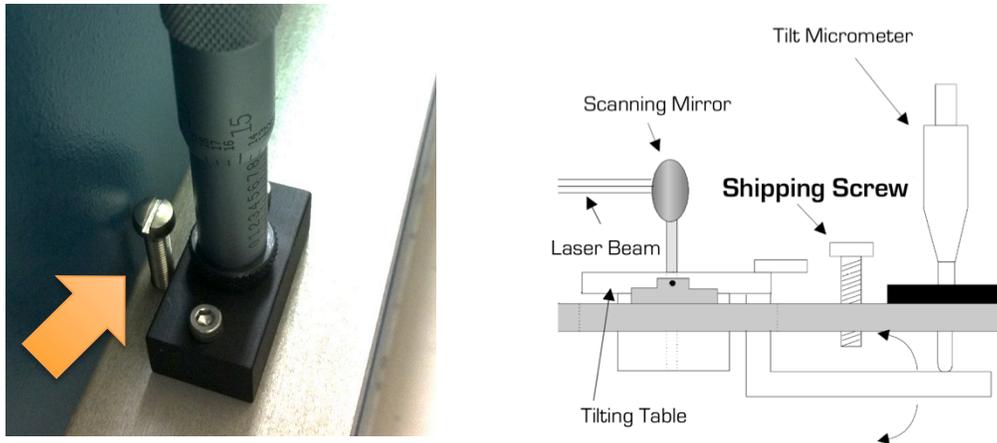
Like most electromechanical equipment, Sutter Instrument micropipette pullers contain components that require protection during shipping. Therefore, it is strongly recommended to retain the original shipping box with fitted foam inserts and use it whenever the unit is shipped. If the original box is no longer available, a new box can be purchased from Sutter Instrument. Use of inappropriate shipping containers may void the warranty and has in several cases caused shipping damage that far exceeded the cost of a new shipping box.

**For shipping a puller always use the original packaging!  
Shipping damage can be much more expensive than  
purchasing a new box with foam inserts.**

If the instrument is moved within the same building and is constantly under the control of a responsible person during the transport, crating may not be necessary. The precautions below still apply, however.

### 1. Setting the shipping screw

The shipping screw is located behind the upper compartment of the puller housing, next to the micrometer. The shipping screw lifts the spring-loaded tilting table, which vertically aims the laser beam, off of the tip of the micrometer. That prevents the table from vibrating against the micrometer during transport, which might cause damage.



To set the shipping screw, tighten it with a flat head screwdriver until you feel the screw engage on the table. Once engaged, tighten the shipping screw one more turn. Do not tighten the screw all the way down!

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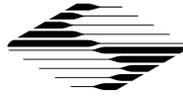
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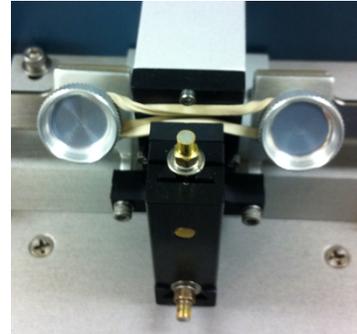
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Should the shipping screw be missing, you can use any screw of the dimension 10-32 x 1" or longer, given that the head fits in between the base of the micrometer and the blue top of the puller cabinet. Again, make sure not to run the screw all the way down, but only until it engages, and then one turn.

## 2. Immobilizing the pull mechanism

The pull mechanism in the lower compartment of the puller contains a plunger that might move during shipping. To pre-tension the pull mechanism and minimize movement, pull the puller bars all the way together. Route a rubber band around the clamp knobs to immobilize the pull mechanism. Use multiple rubber bands if necessary. The rubber band(s) should be strong enough to keep the puller bars in position, but must not be so strong to cause damage to the clamp knobs or puller bars.



Please do not hesitate to contact Sutter Instrument Tech Support if you have further questions or concerns:

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