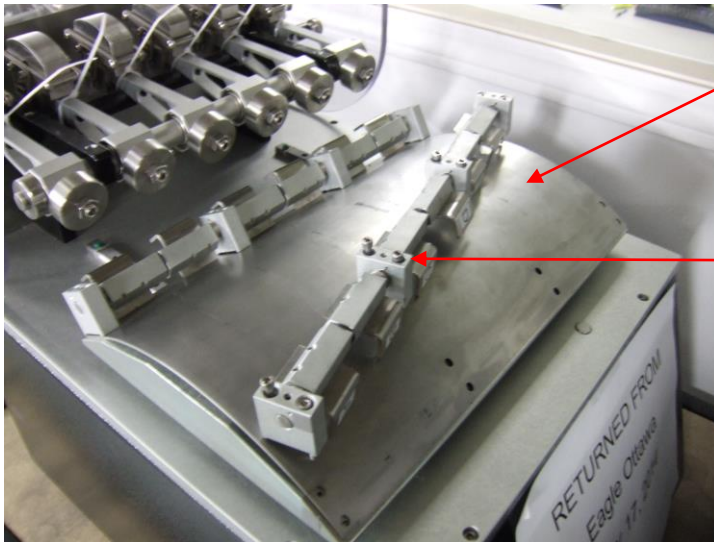


GAKUSHIN

INSTRUCTIONS TO VERIFY MECHANICAL WORKINGS

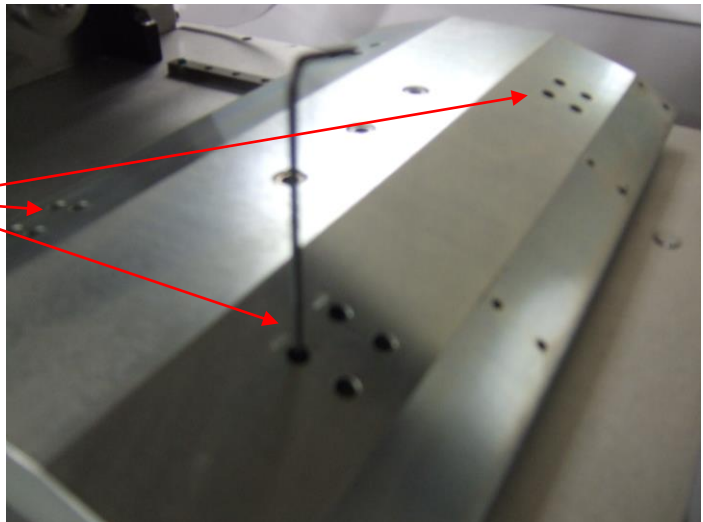
With the cover open, use a 3mm hex wrench to remove 16 screws holding both sample clamp mechanisms and set aside. Notice the orientation and keep it the same when re-installing. Remove the curved top plate, keeping the orientation noted.



Gently pressing on the center of the curved plate, will reduce pressure on the screws, making them easier to remove.

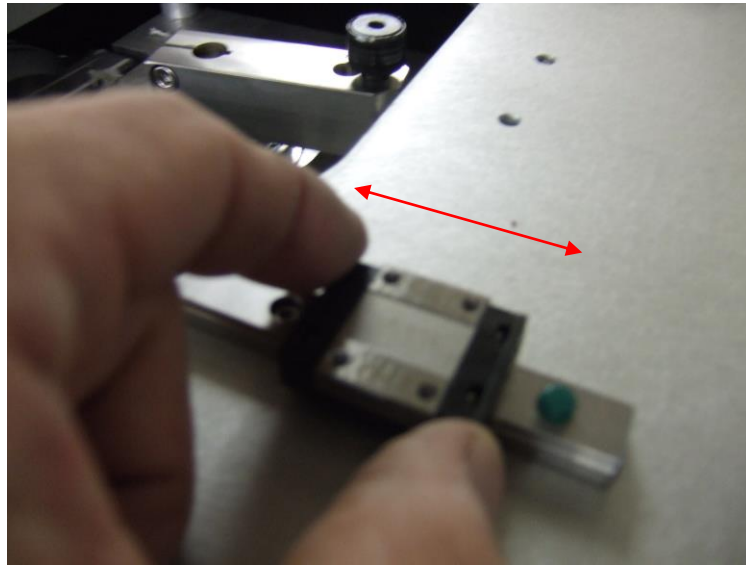
3mm Screws (16)

With a 2.5mm hex wrench, remove 16 screws that secure the heavy support plate to the four bearing blocks. Remember to note the orientation of the plate and re-install the same.

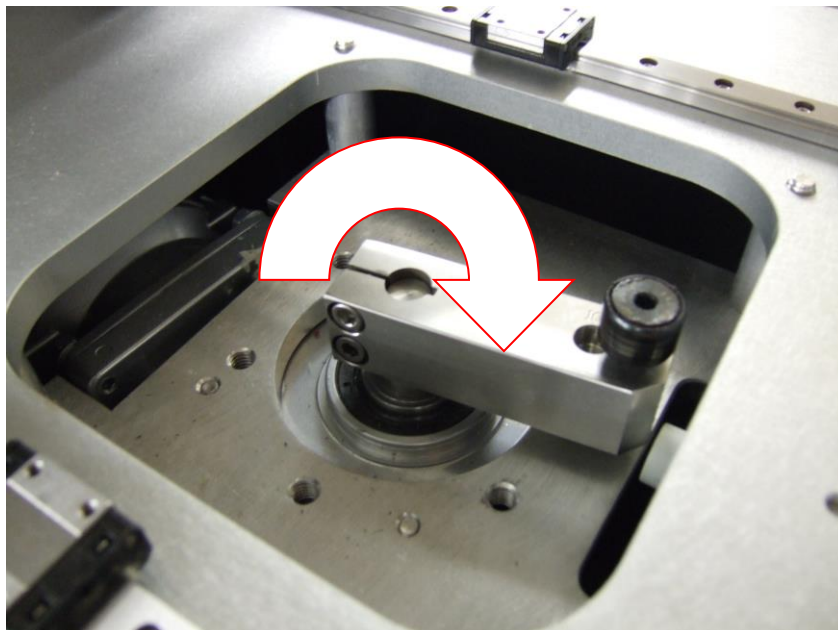


The cam track will stay connected to the bottom of the support plate, and needs to be lined up over the cam follower at reassembly.

With the heavy support plate removed, it is easy to verify that the bearings blocks will move easily. If they don't move easily, they should be replaced.



The next step is to close the cover (with all previous mentioned parts removed) and jog the machine. It should now be clear if there is a problem with the gear-motor, or not. The gear-motor should run smooth. If it does not run smooth, or is very noisy, then it is possible that it needs replaced.



ANALYSIS:

With the cover still off, there are several options of what you should see and hear.

- 1.) If you checked the bearing block and it was not moving freely, then the tester needs new bearing blocks.
- 2.) If you use the jog and the cam and cam follower now turn freely, then the issue is mechanical and the cam follower was possibly binding in the slot (CAM Track) on the bottom side of the heavy support plate, or the cam follower lost its shape and cannot move in the slot properly and needs to be replaced.
- 3.) If you use the jog and the cam and cam follower turn, but there is a lot of noise, then likely the motor is bad and needs to be replaced.
- 4.) If you use the jog and NOTHING happens, then the likely issue is the Variable Speed Drive, and it needs to be replaced.

REASSEMBLY OF TESTER:

Re-assemble in reverse order of disassemble.

Be sure that the cam track is lined up over the cam follower when reinstalling the support plate.

Remember to press down slightly on the curved plate, to help the screws go in easier when reinstalling the sample clamp assembly.

Also, the finger tabs need to be rotated up before tightening the screws all the way down, as the springs tend to rotate them into the wrong orientation. (See photo)

