

JEOL2100 - automatic HT startup after ACD bakeout

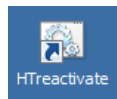
Thanks to Irina Bregy! – version 01.04.2026

Purpose of the HTreactivate script

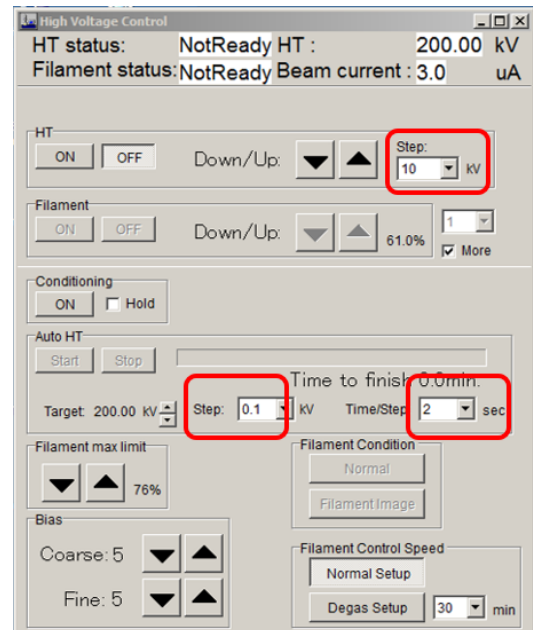
The HTreactivate script will automatically restart the HT once the ACD bakeout is completed.

Starting the HTreactivate script

1. Start ACD Bakeout as described in the main manual
2. Verify that the High Voltage Control panel is set correctly → →
 - a. HT Step: 10kV
 - b. Auto HT step: 0.1kV
 - c. Auto HT Time/Step: 2 sec
3. Double-click HTreactivate (on the desktop - top left corner of the screen)



4. Confirm that you've done step 2 correctly
5. Verify that the green H symbol is present at the bottom right of the screen (it shows that HTreactivate is running)



Premature termination of the automatic filament startup

In case you decide to use the microscope before HTreactivate has run through:

1. Right-click the green H symbol at the bottom right → exit
2. Verify that the green H symbol is gone now
3. Restart the HT manually.

Background information

During the ACD bakeout (which should be run after each imaging session) the high tension (HT) is automatically turned off. Once the bakeout is complete, the HT should be restarted and maintained at 200 kV to improve the longevity of the HT tank. The 'HTreactivate' script will automatically restart the HT once the bakeout is complete. Alternatively, you can manually restart the HT (see manual "JEOL 2100 = Quick guide to starting the HT") after the bake-out is completed (~ 3 hrs).