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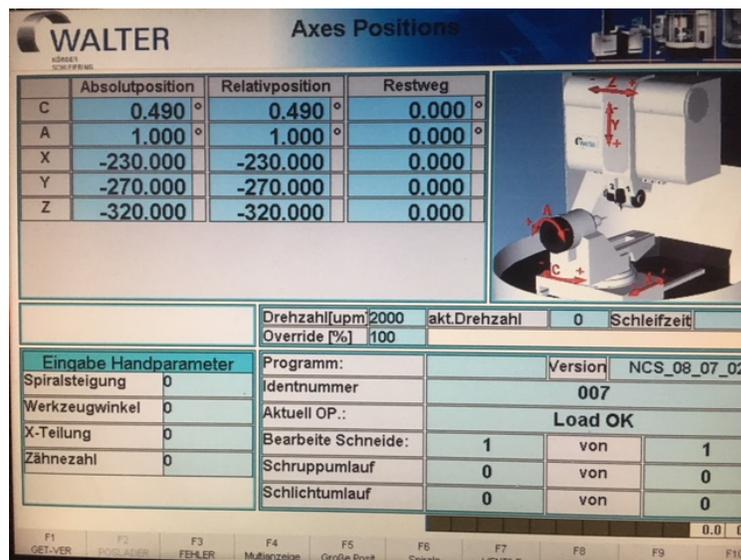
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Loading drive data onto an Indramat/Bosch Rexroth drive from the hard drive of the HMC 500/600 control

When replacing an Indramat drive amplifier we highly recommended replacing the PCMCIA personality card as well. It is easier to use the old card, but this can cause future trouble because the personality card is at least as old as the drive you are taking out! The drives we supply have new cards with the latest firmware appropriate for the drive hardware. So please take the time to reload and replace the card as well.

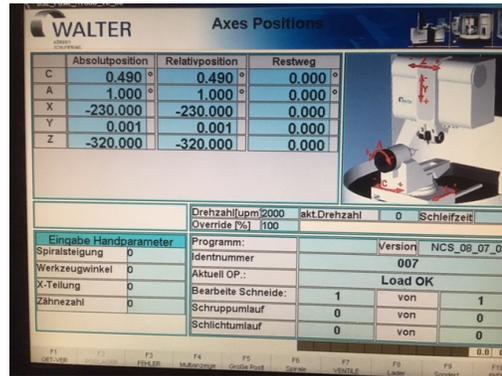
1. Connect a keyboard and boot your machine normally. Turn the drives on and do a "Ref all Move." After all the axes finish the reference moves to the machine reference position, **do not push "ABS All Home" or "Set"!!**

The picture below shows the position screen of a Helitronic Power Production. The numbers are different on Mini Power machines, but for this instruction it doesn't matter. The axes are now in the "reference position" and the numbers on the screen show the difference to the "machine 0 position" (geometric zero position), which is the center line of the spindle, the A-axis center, the C axis center, and so on.

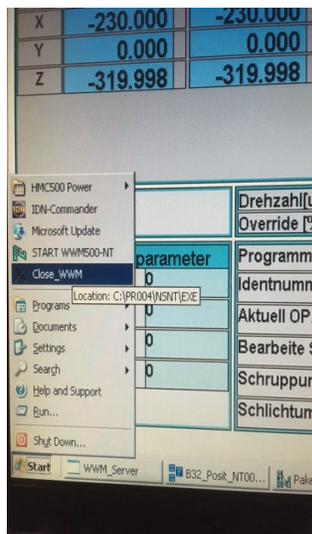


In the example below we are working with the Y axis. The procedure is the same on any other axis.

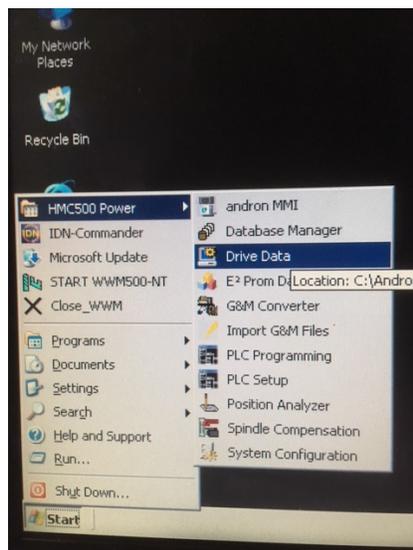
- Put your machine in "Setup mode" with the key switch and jog the Y axis to the machine 0 position.



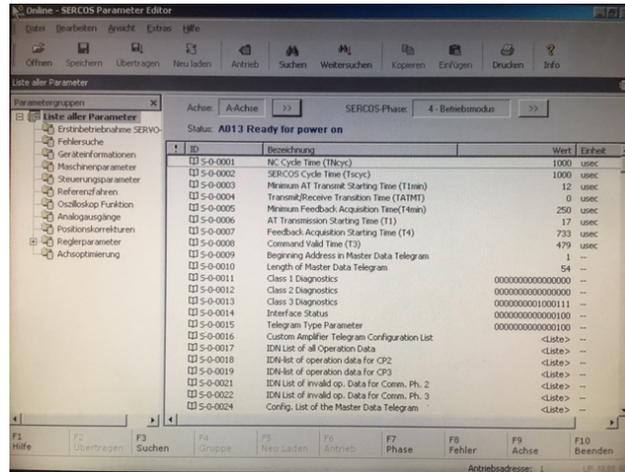
- Open the door and turn the drives off using the red machine off button. Close Walter Windows mode.



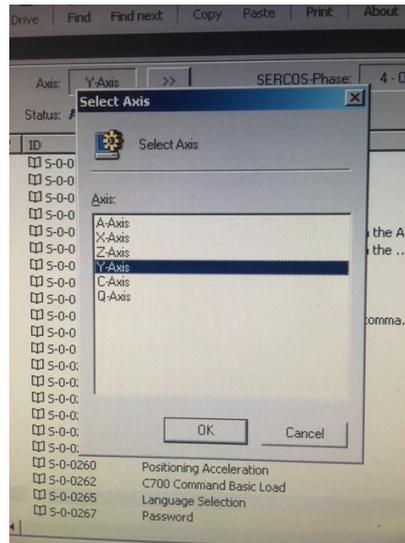
- Start the Drive Data software



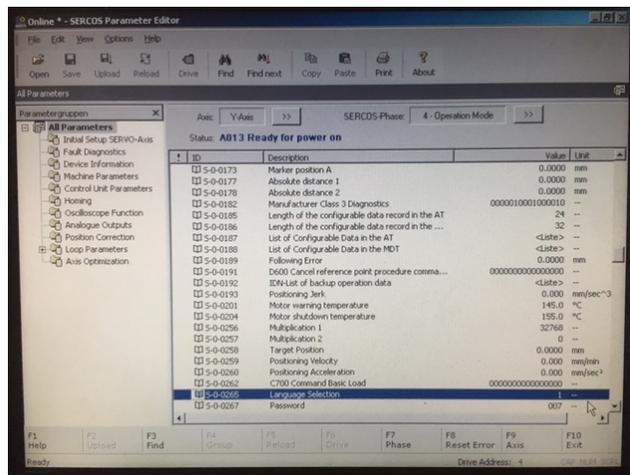
5. The Drive Data will come up like shown below, defaulting to the A axis!



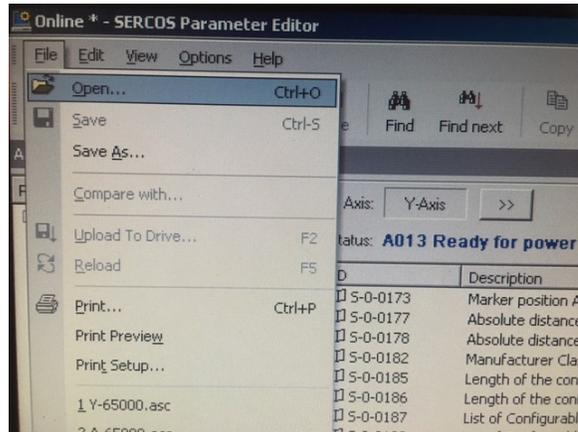
6. Select "F9 axis" and then the Y axis



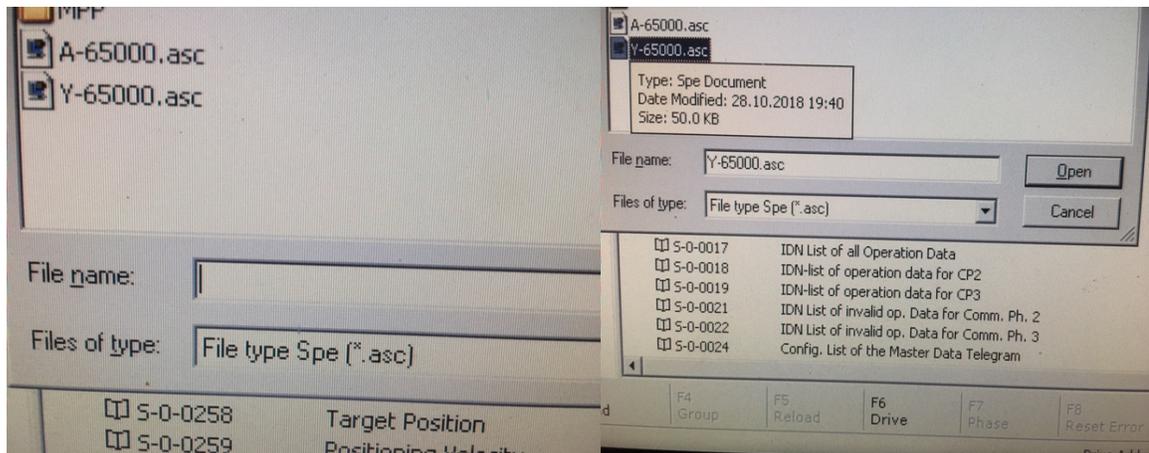
7. Now drive data shows the Y axis parameters



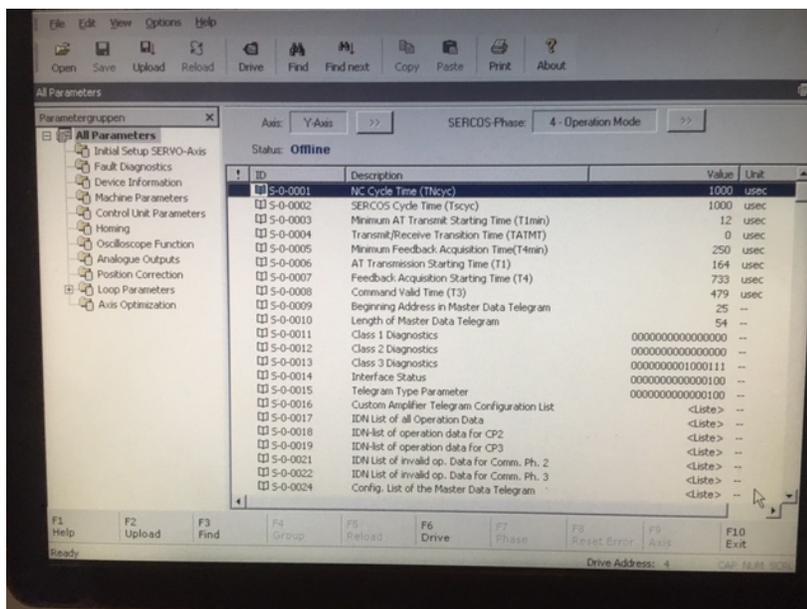
8. Select File >>> Open to load a parameter set from the hard drive



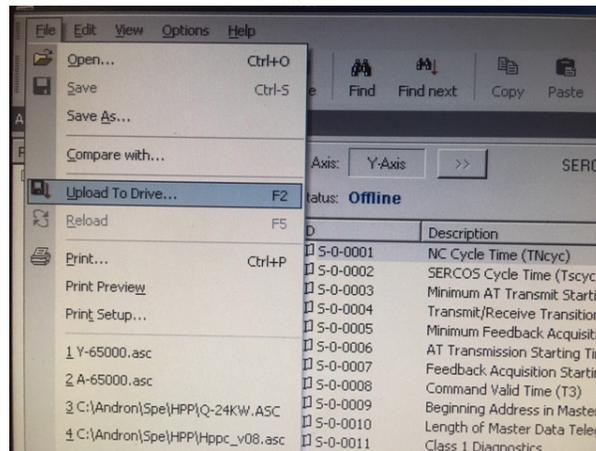
9. Select the parameter set for the Y axis (Y-65000.asc in this example) and press <Open>



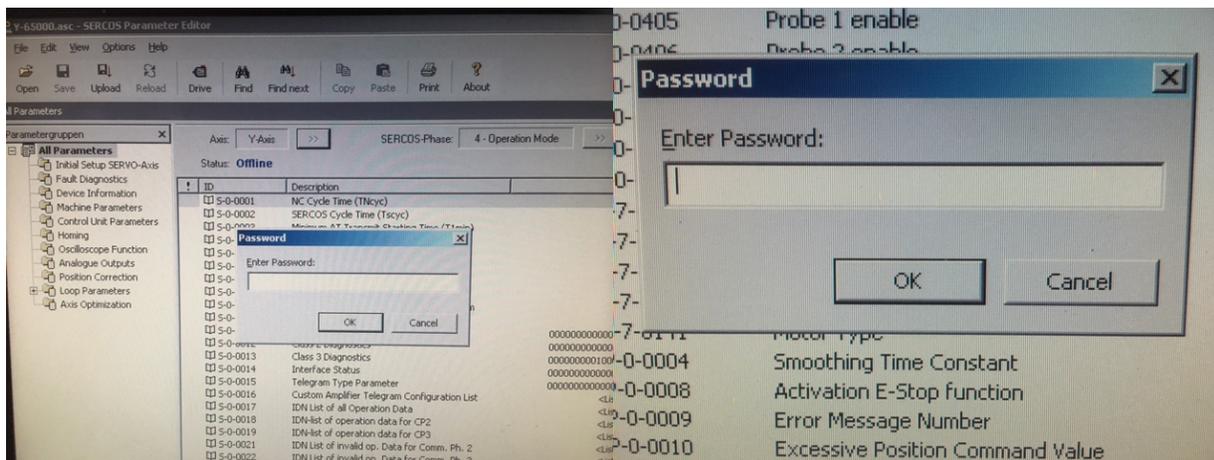
10. Now the drive data shows the parameter set on the screen as "offline"



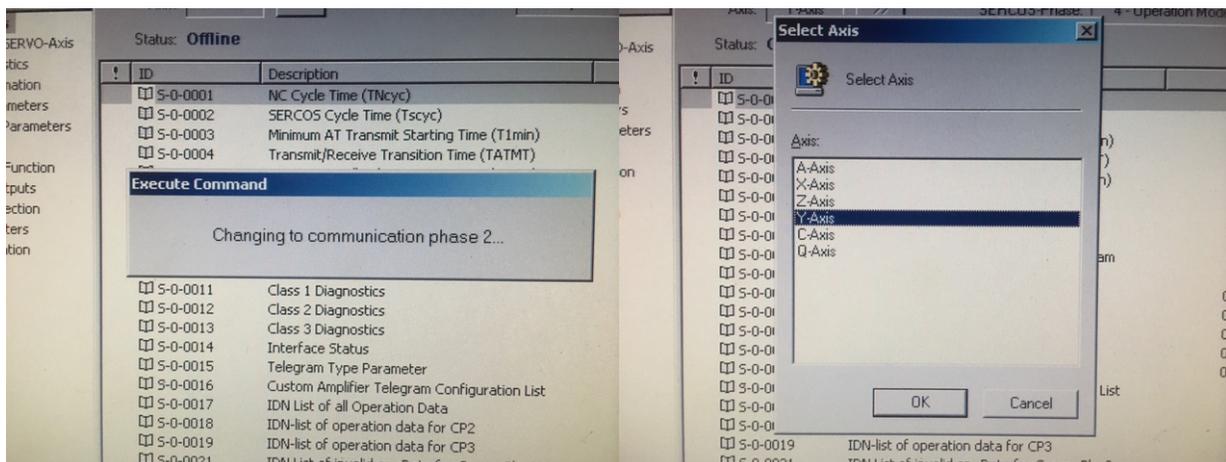
11. Select "Upload to drive" with the menu or with F2



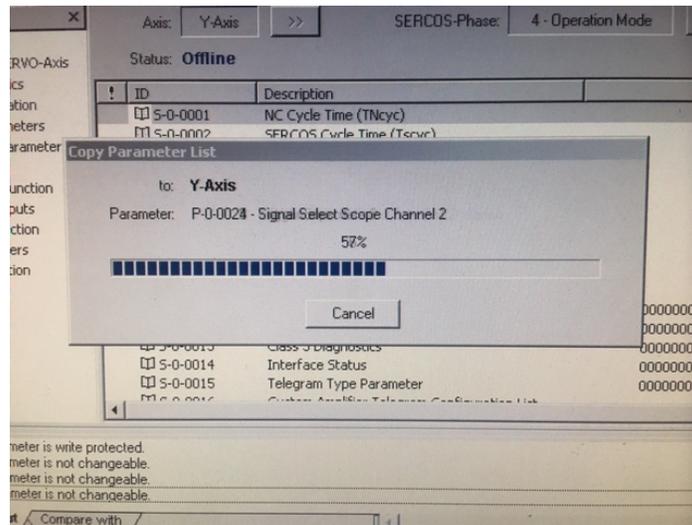
12. The following steps are protected by the password **pass1**



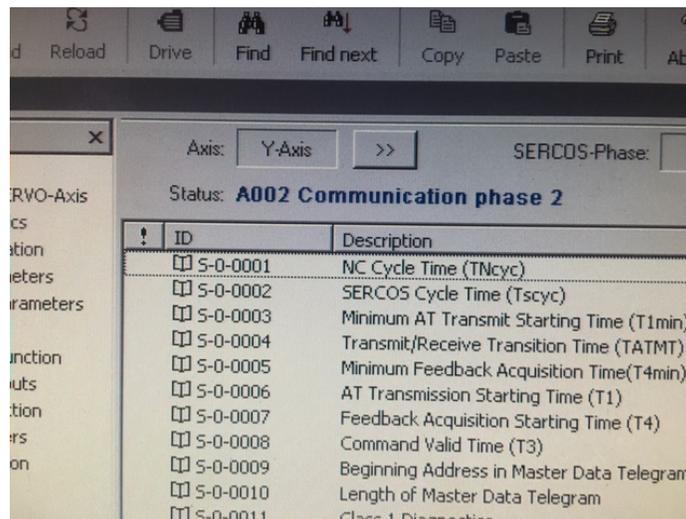
13. If you entered the password correctly the drive data software is changing the communication phase from Phase 4 to Phase 2 and will ask you on which drive you want load the parameters. Select Y axis



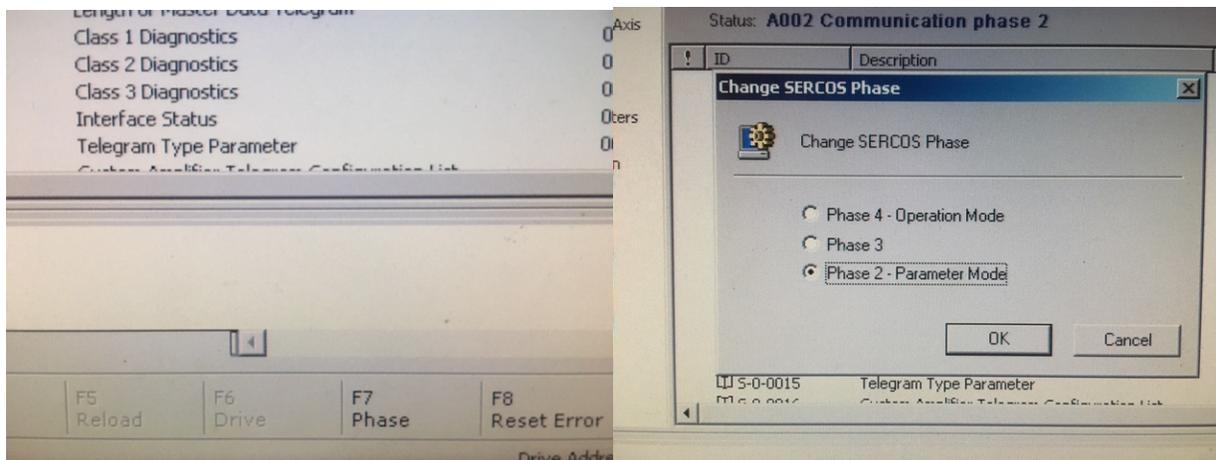
14. Software is uploading the parameters

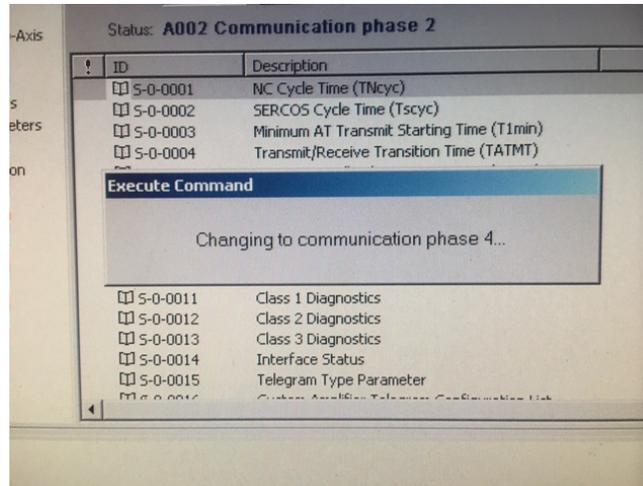


15. After the upload finishes, the software shows the Y axis parameters but still sits in Phase 2

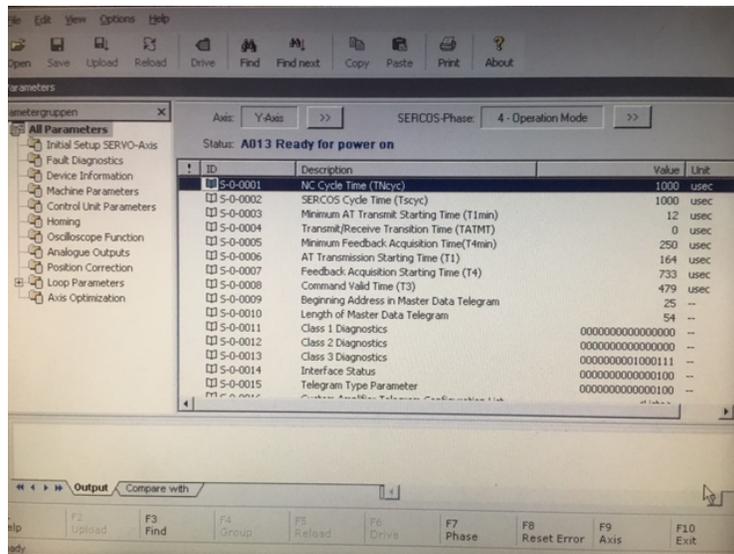


16. Select "F7 Phase" to change back to Phase 4

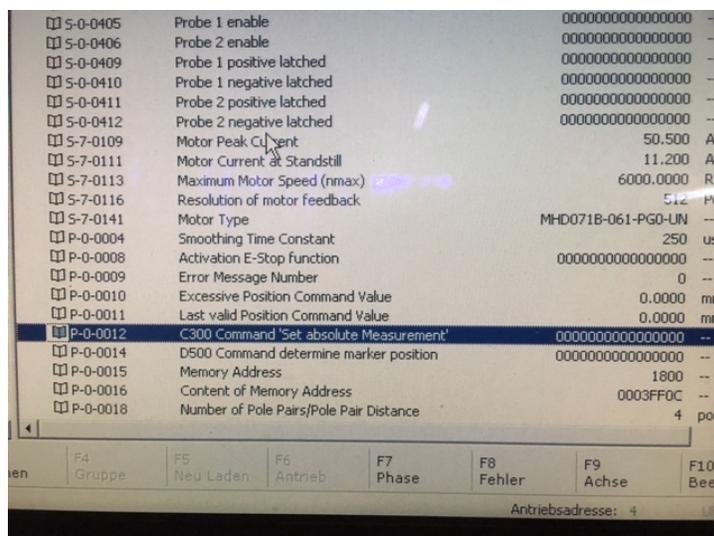




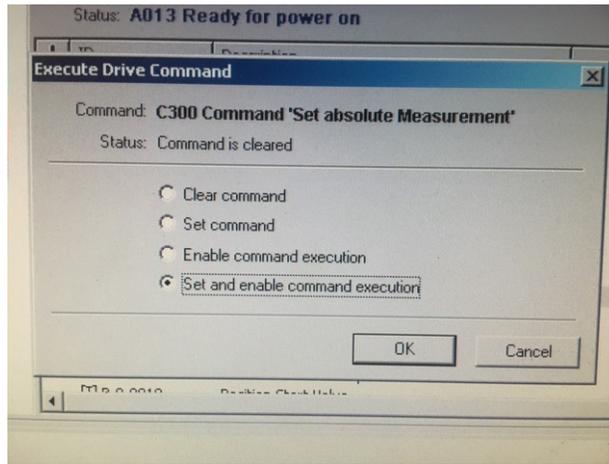
17. The screen should show the parameters of the Y axis and Status A013 ready for power on



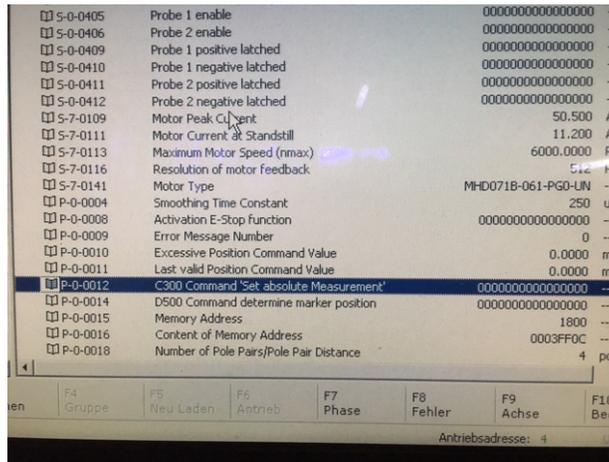
18. Scroll down the parameter list until the blue bar sits on "P-0-0012 – C300 Command Set absolute measurement"



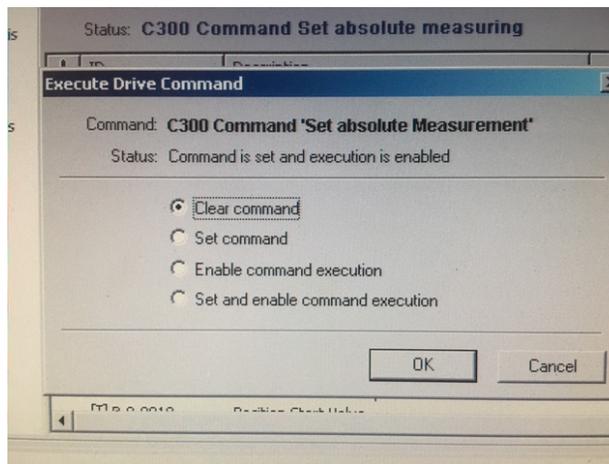
19. Open up this command with <Enter> and you will see the following windows. Just push <Enter> again to “Set and enable command execution”



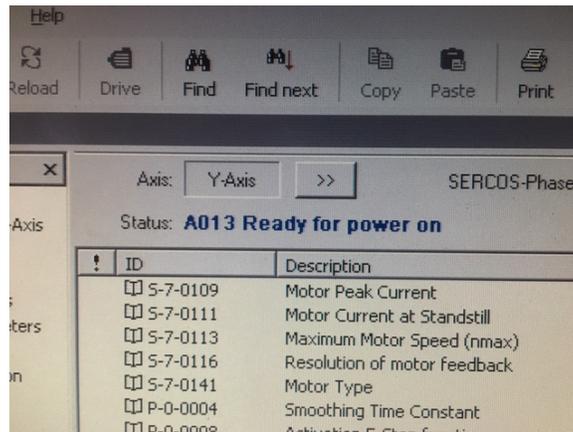
20. The box will close and you are back to the “P-0-0012” screen



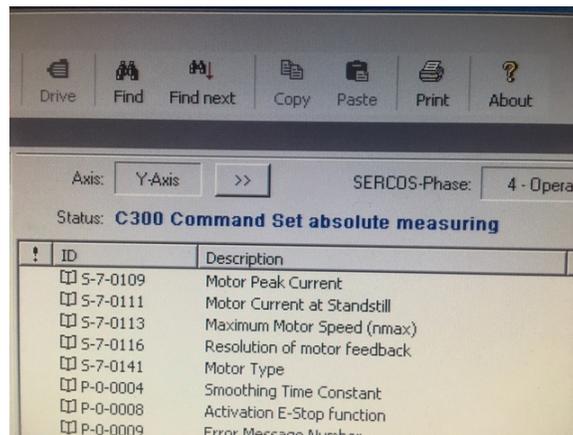
21. Push <Enter> again and the box will pop up again but this time “Clear command” is selected.



22. Push <Enter> again and the box will close and you are back to the parameter page with P-0-0012 highlighted. The message on top should says “A013 ready for power on” !!



- If it says “C300 Command Set absolute measuring” as shown below, you missed the “Clear command.” Go back to Step 21.



23. Close the Drive Data software, open Walter Windows Mode, and reference the axis with 20%!! If the reference move goes well and the axis went back home, the upload is finished.

We highly recommend re-qualifying the axis position and the touch probe after a drive exchange!