



## Basic <sup>1</sup>H/<sup>13</sup>C Command Version

1. Login to computer and double-click on the icon to open TOPSPIN
2. Type **lockdisp**
3. Type **rfshim** (if your solvent is not CDCl<sub>3</sub> you will need to learn to use **rsh**.)
4. **IF USING A J-YOUNG TUBE OR RUNNING A 2D STOP THE SPINNING**
5. Press **Lift On/Off** button
6. Remove reference sample from the magnet and take the spinner off of it using a Kim Wipe– **do not touch spinner with your fingers and NEVER drop a spinner!**
7. Insert your sample into the spinner, **set the depth with the depth gauge** and place it into magnet and press **Lift On/Off** to insert your sample
8. Type **lock** and select your solvent
9. Shim Z1 and Z2 alternately to maximize the lock level
10. If the Lock trace hits the top of the lock display, reduce the **Lock Gain**
11. Press **Standby** button when done with shimming
12. Type **new** and enter a filename and click **SAVE**
13. Type **1h** to set up for proton. OR **13c** to run carbon spectrum
14. Enter your solvent name when asked
15. Type **rga** to set the receiver gain, wait until it is finished
16. If you want to change the default number of scans type **ns** and enter the new number
17. Type **zg** (Zero the memory and begin acquisition)
18. After waiting a few seconds going through steps 19 to 20 will allow you to check your run while it is in progress.
19. Type **tr** (Transfer data), wait then type **efp** (Exponential Multiplication, Fourier Transform, Phase)
20. Type **apk** (autophase)
21. To stop a run and save the data before the exp is finished type **tr**, wait for the message, then type **halt**.
22. To run another sample loop back to step 5.
23. Remove your sample and reinsert the reference sample (follow steps 5, 6, and 7).
24. Type **rsp** (recalls a temp data file and protects your data)
25. Type **rfshim**
26. Type **lock** and enter CDCl<sub>3</sub> as the solvent
27. RE-START THE SPINNING IF YOU STOPPED IT (J-YOUNG OR 2D)
28. Type **exit** and answer **ok** to the warning of closing active application of TOPSPIN
29. **Move your data from the acquisition computer to the 400 workstation in 832.**
30. Log out of computer and sign the logbook

### Other useful commands and notes

<b>iexpno</b>	increment exp number (new exp number in existing filename)
<b>re</b>	recalls other exp numbers (e.g. <b>re 1</b> moves you to exp 1)
<b>stop</b>	abort acquisition without saving data
<b>multizg</b>	sequentially runs experiments (ask us for instructions)
<b>ez_cosy</b>	this macro will set up a simple 2D proton-proton correlation experiment
<b>ez_hsqc</b>	this macro will set up a simple 2D carbon-proton correlation experiment

Your data directory in “**new**” must **ALWAYS** be **C:\Bruker\TOPSPIN**