

One-Minute NMR Leap Autosampler Tray Changes **7 July 2009; DLO at Protasis/MRM**

To change the tray (such as from VT54 to MT96), perform the following tasks on the Leap controller. Note that CB = press center button, and z' = needle penetration depth. In general, one begins from the Home position, pressing Home (F4) on the controller if needed.

To Change Trays

- Menu
- Setup, CB
- Objects, CB
- Trays, CB
- Select Tray physical position of interest, then CB
- Tray Type, CB
 - This puts you in a mode where you can scroll to select the well plate of interest, such as MT96, or VT 54
 - Once you make a selection, hit CB
 - When you press Check Position (F1), the black syringe carriage should move into position resting on the #1 position of the well plate or vial tray. This is just a check, and you cannot make x, y, z, or z' adjustments here.
- Home

To Adjust Needle Penetration Depth (z')

- Menu
- Utilities, CB
- Tray, CB
- Scroll to select Tray physical location, CB
- Move to 001 (F3)
- CB to adjust z' on well location #1 only
- CB when done
- OK to move to next position (F3), but z' adjustment is not advised here
- Home

To Adjust x, y, z of #1 Position on a Tray

- Menu
- Scroll to Setup, F3, CB
- Objects, CB
- Trays, CB
- Scroll to select Tray physical location, CB
- x, y, z, adjustment is available here, but only for the #1 position on the selected Tray
 - Check Position (F1)
 - Scroll to a dimension (Offset X, Y, or Z), then press CB to select it
 - Don't change Path Offset values
 - Scroll to adjust position; carriage will move
 - CB when done with a given position
- Check Position (F1) will bring the syringe carriage to the #1 position, and then successively to two other corners (upper right, lower left)
 - To repeat, adjust x, y, z, at #1 position only, as described above
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