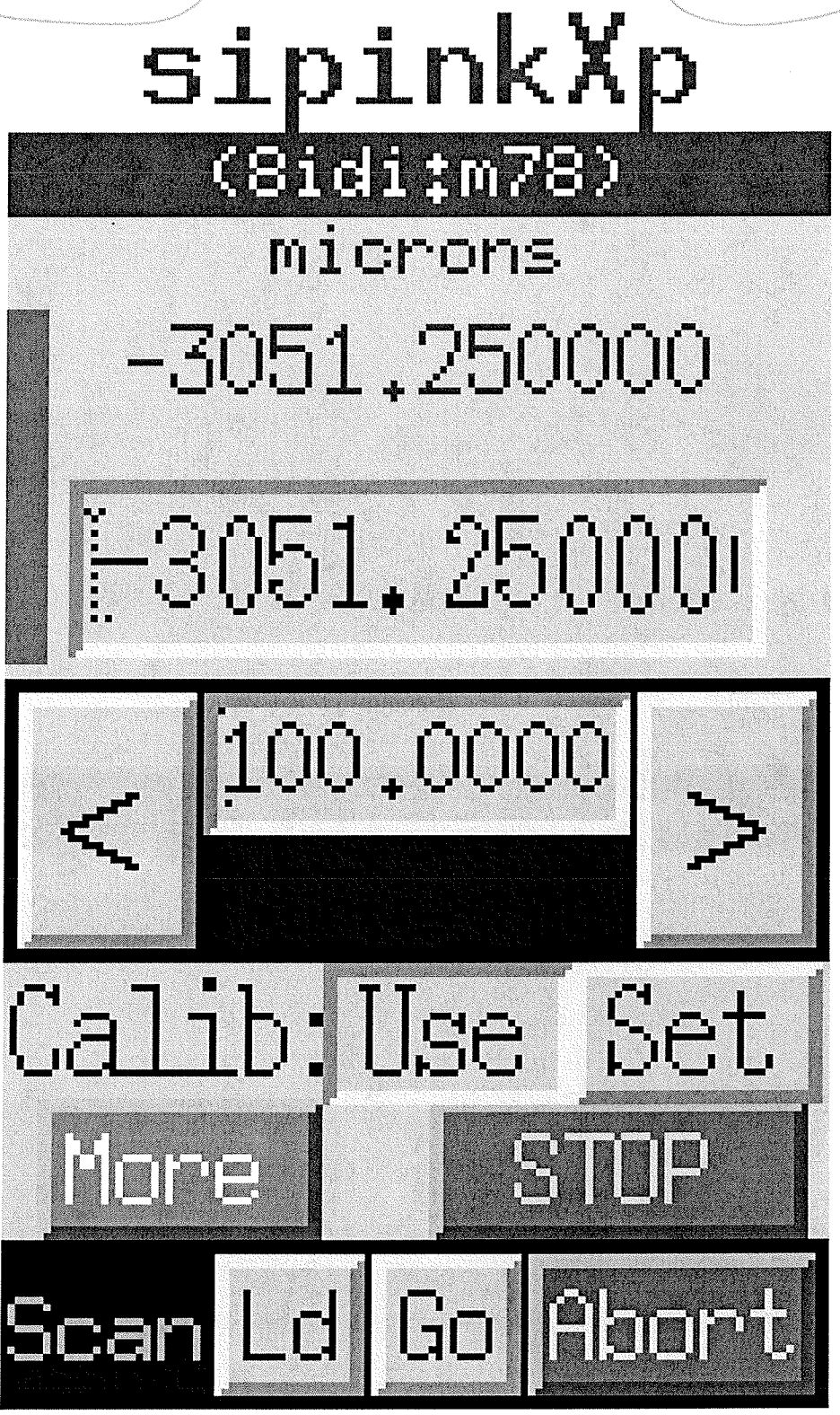
Readjusted Xp low limit

Sep 20, 2017 motorx.adl 15:08:54




Final adjustments of Xp and Zm

NEW μ-stepping w/ Phytron @ 6 1/20 sin wave

Sep 22, 2017 motorx_setup.adl 15:59:09

sipinkZp (8idi:m80)

| Limits | USER | DIAL |
|---|---|---|
| High | 18543.2500 | 20000.0000 |
| Low | -21456.7501 | -20000.0001 |

**Dynamics** — **Normal Backlash**

| | | |
|---|---|---|
| Max. Speed (Rev/s) | 1.000000 | |
| Speed (Rev/s) | 1.000000 | 1.000000 |
| Base speed (Rev/s) | 0.250000 | |
| Accel time (s) | 0.500000 | 0.500000 |
| Backlash dist. ( microns ) | | 50.000000 |
| Move fraction | | 1.000000 |
| Home Speed ( microns /s) | | 0.020000 |

**Calibration**

Cal: Use | Set

Off: -1456.750

Variable

Dir: Pos | Neg

**Resolution, Readback**

| | | | |
|---|---|---|---|
| Units: | microns | | |
| Motor: | 4000 | Steps/Rev. | Readback delay (s) |
| | 1000.0000 | microns/Rev. | 0.000000 |
| Encoder: | 0.250000 | microns/Step | Use: No Yes |
| Readback: | 0.000000 | microns/Unit | Use: No Yes |
| RBV inLink: | | | |

**Retry**

| | |
|---|---|
| Deadband | 0.250000 |
| Max. retries | 10 |

More

**Misc.**

| | |
|---|---|
| Code version | 6.10 |
| VME card# | 5 |
| Precision | 6 |
| NTM | NO YES |
| NTM Factor | 2 |

9/22 — Set top blade to microstepping & went to top limit and set position to Table 2 position per Oxford. 16.5711mm

Sep 22, 2017 motorx.adl 15:18:08

Phytron set to 6
4000 μstep/step
1/20

# sipinkZp

(8idi:m80)

microns

16571.000000

16571.00000

1000.000

<

>

Calib: Use Set

More

STOP

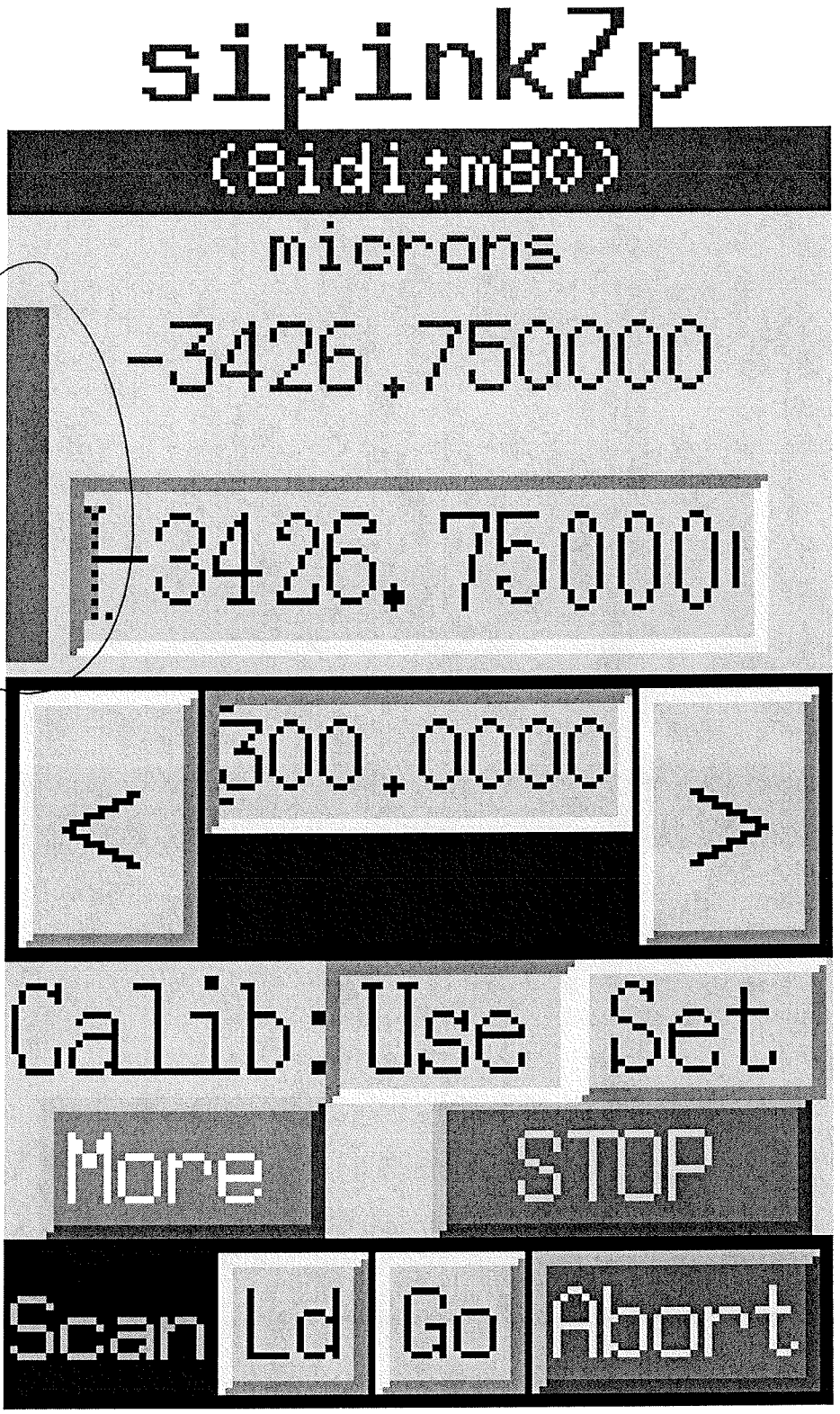
Scan Ld Go Abort

TESTED ONE NEW cable by RAY Labelled "C"

Repeated to 16556.5

16493, 16424

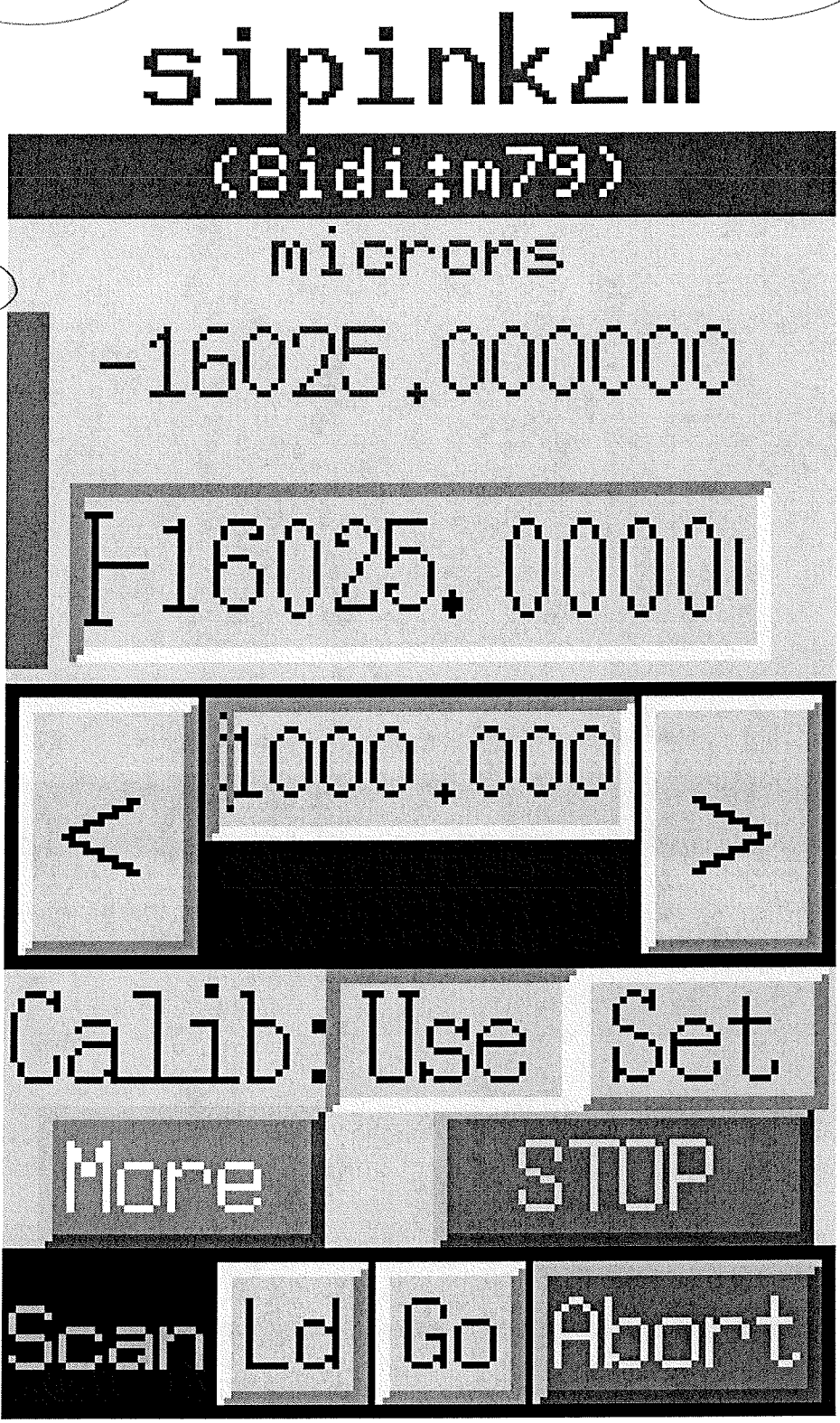
16463 w/ other cable "D"




w/ usstep on 9/22/17

Repeats w/ cable "C" and "Y"

Sep 23, 2017 motorx.adl 23:24:16




Now μ-stepping

Zm 1/20

#6.

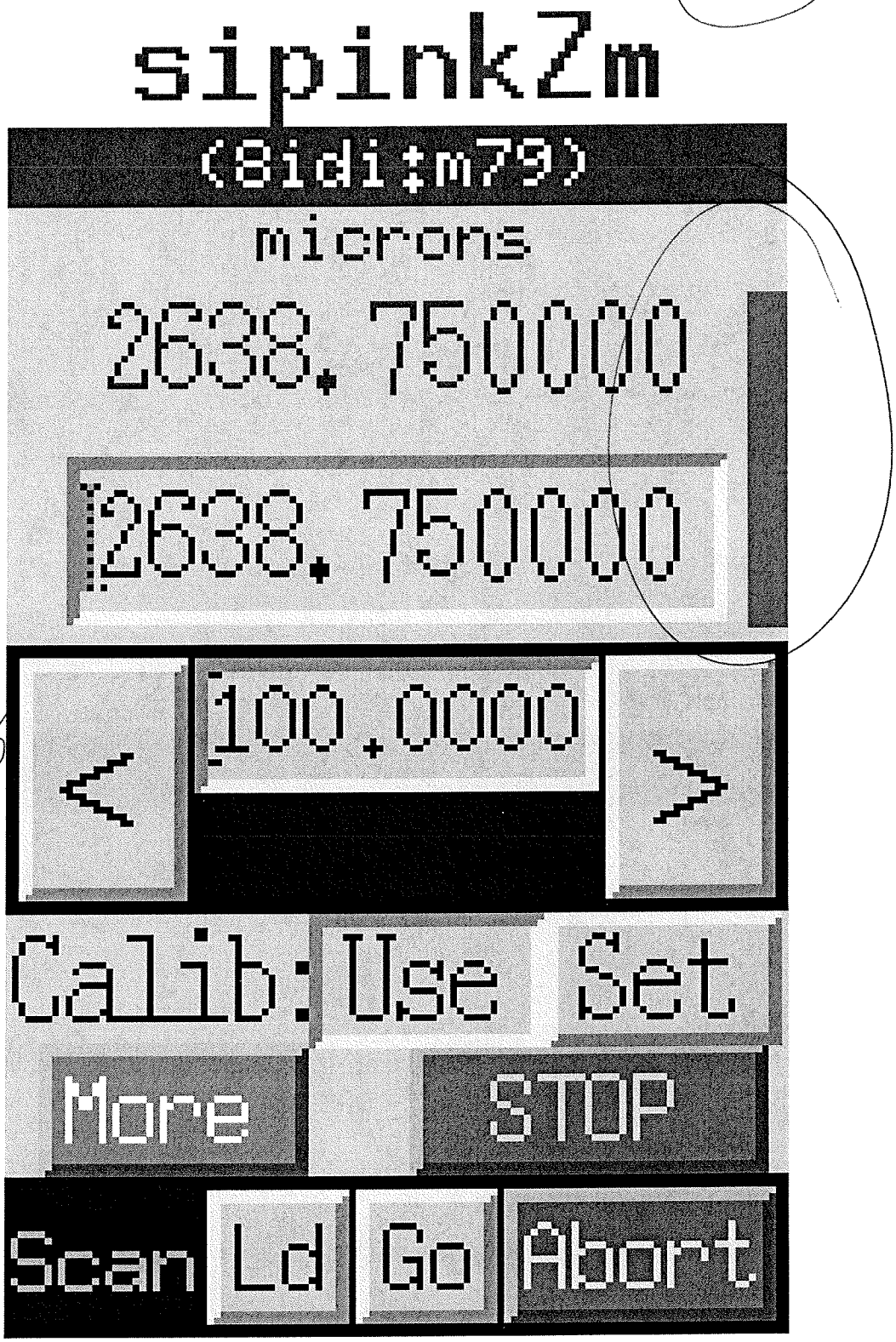
Used Table 2 value at low limit ie -16.025 mm

Adjusted Zm top hard limit

HARD stop was too close..

On 9/25/17 Set $X_p$ to zero aswell as $Z_m$

Sep 23, 2017 motorx.adl 23:33:20




After adjusting top hard limit and w/ μ-stepping $\frac{1}{20}$

Repeated
2625.75
2648.5
2644.5

Excellent