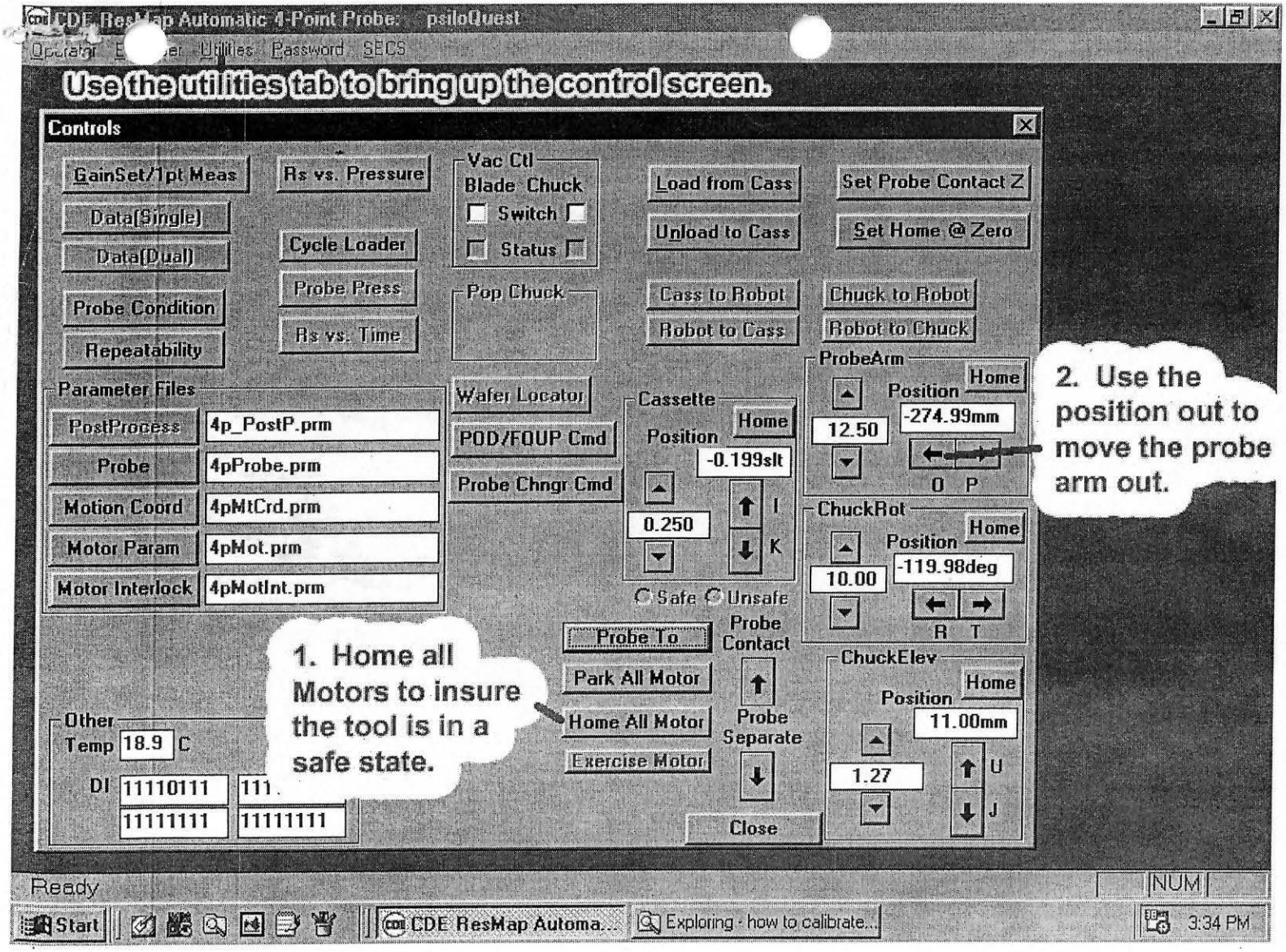
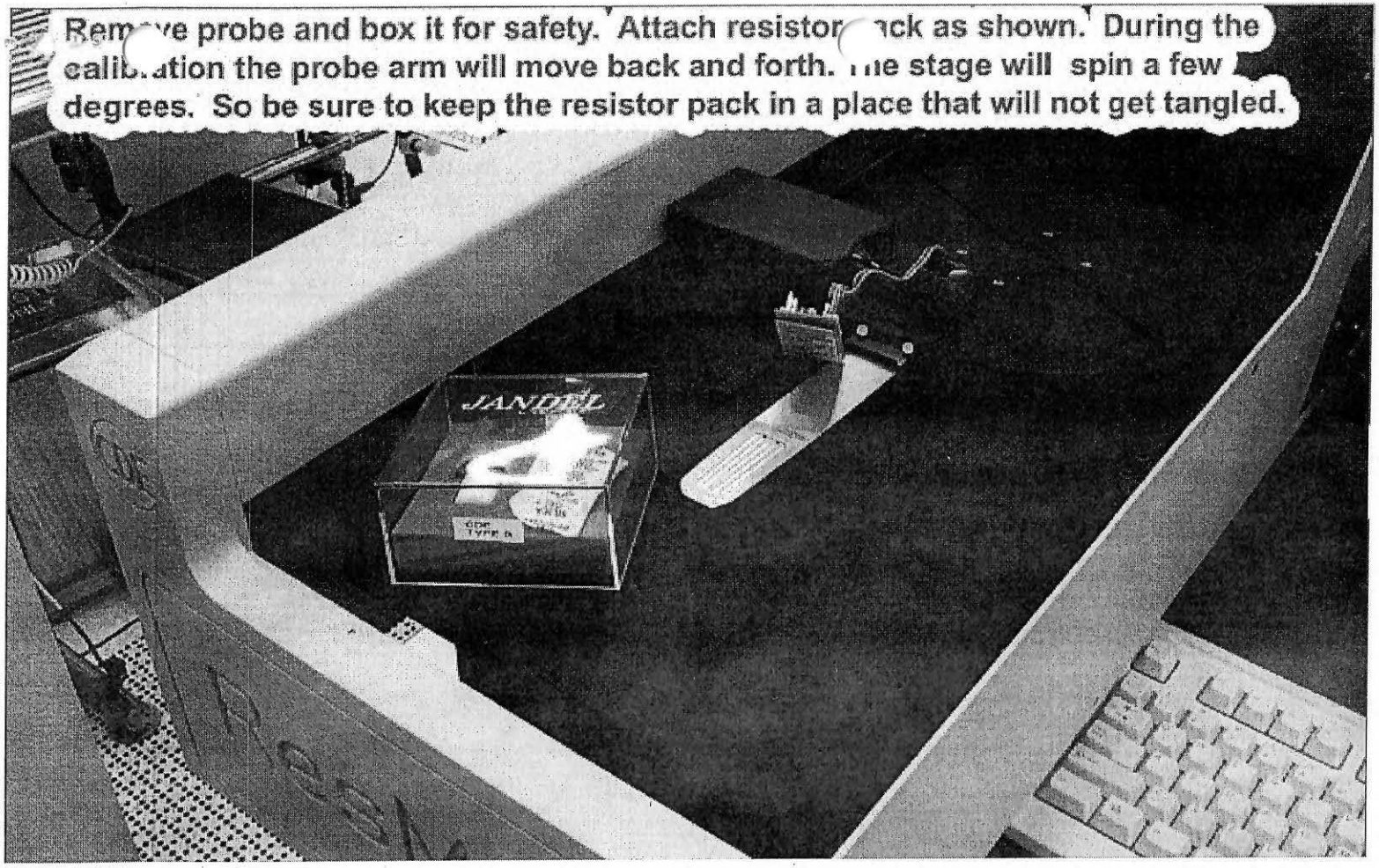
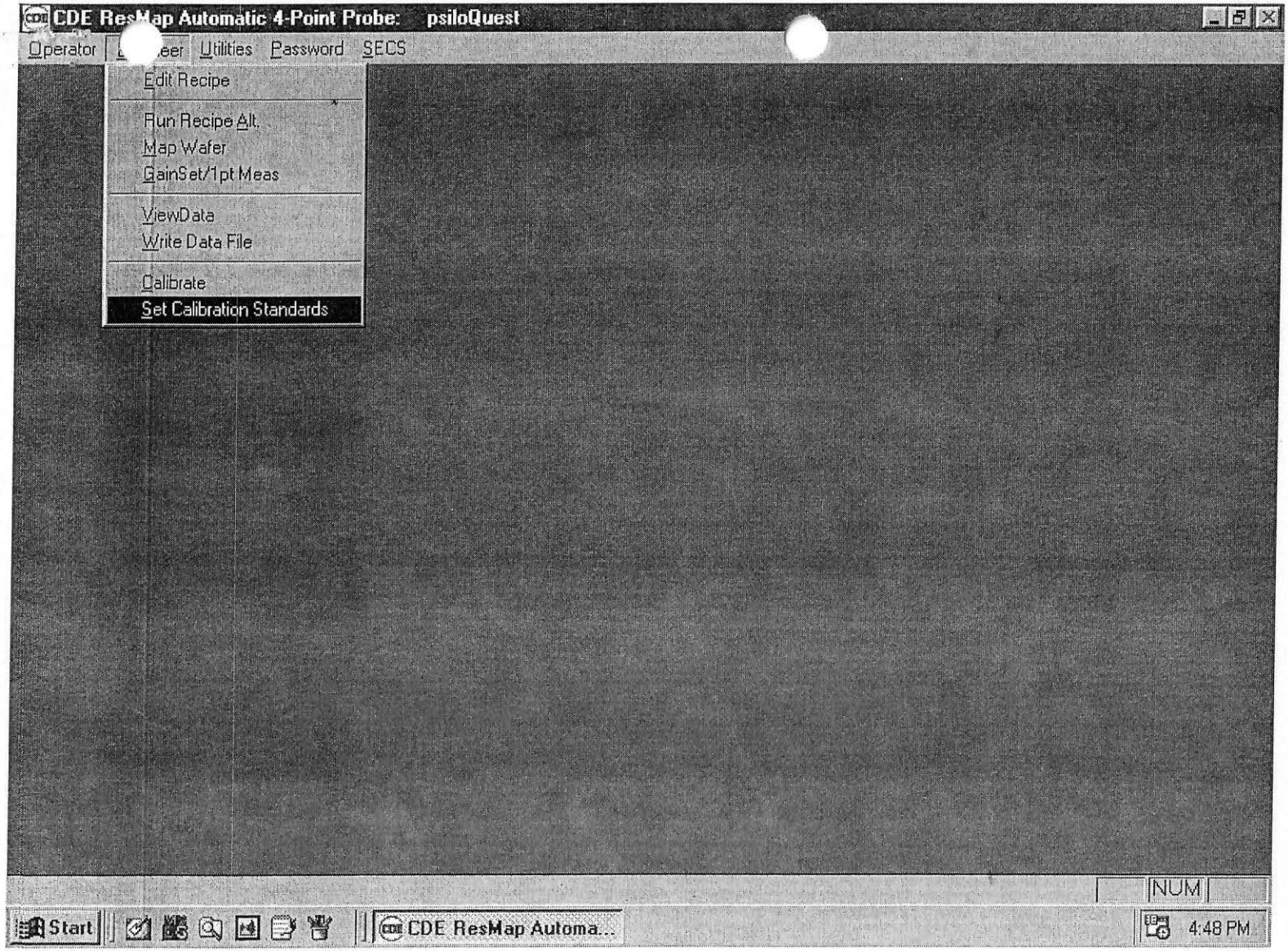
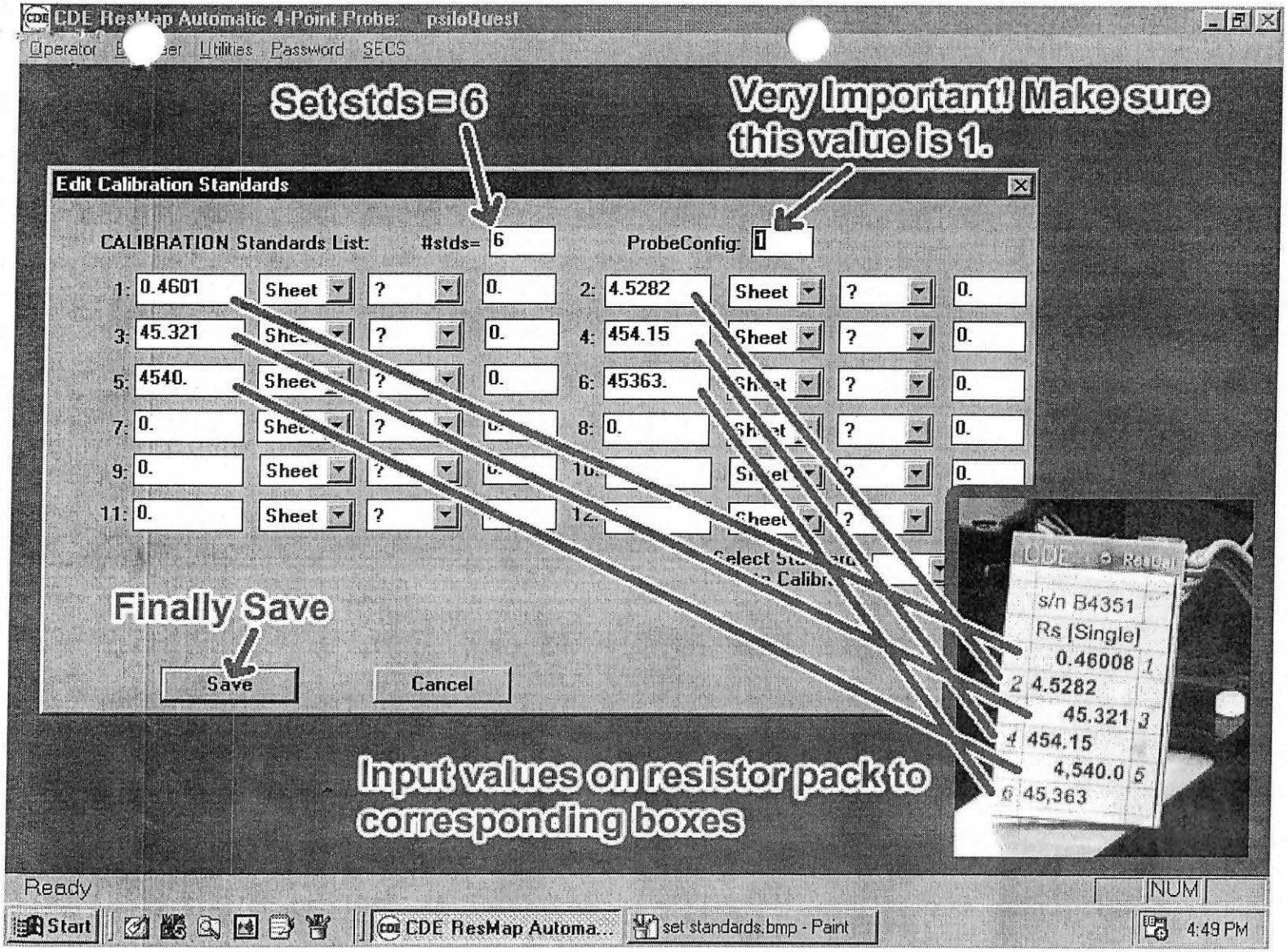
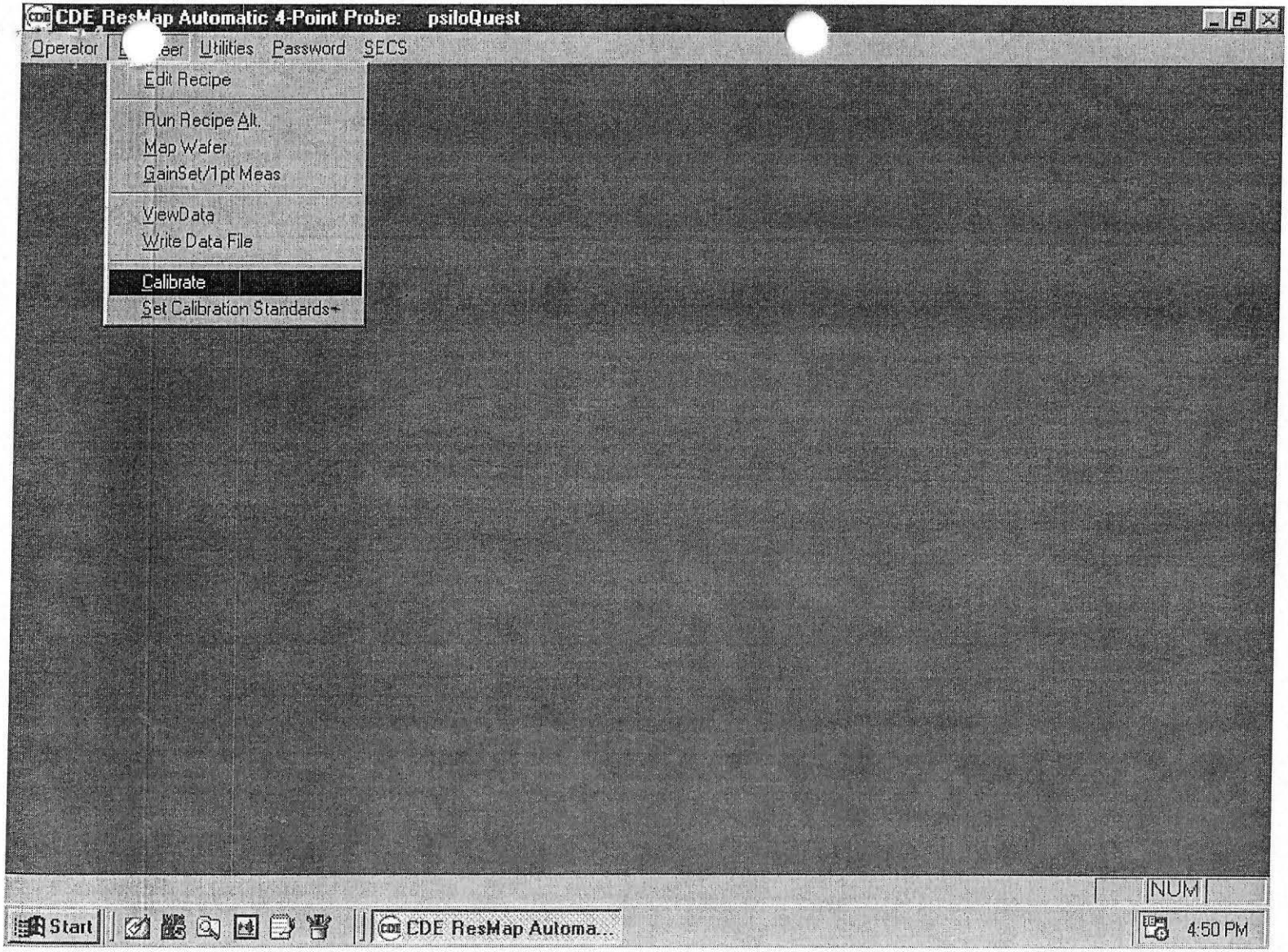

CDE ResMap Automatic 4-Point Probe: psiloQuest
Operator Utilities Password SECS
Use the utilities tab to bring up the control screen.
Controls
GainSet/1pt Meas
Rs vs. Pressure
Data(Single)
Data(Dual)
Cycle Loader
Probe Press
Rs vs. Time
Probe Condition
Repeatability
Vac Ctl
Blade Chuck
Switch
Status
Pop Chuck
Load from Cass
Unload to Cass
Set Probe Contact Z
Set Home @ Zero
Cass to Robot
Robot to Cass
Chuck to Robot
Robot to Chuck
Parameter Files
PostProcess 4p_PostP.prm
Probe 4pProbe.prm
Motion Coord 4pMtCrd.prm
Motor Param 4pMot.prm
Motor Interlock 4pMotInt.prm
Wafer Locator
POD/FOUP Cmd
Probe Chngr Cmd
Cassette
Position
Home
-0.199slt
0.250
I
K
Safe Unsafe
ProbeArm
Position
Home
12.50
-274.99mm
O P
2. Use the position out to move the probe arm out.
ChuckRot
Position
Home
10.00
-119.98deg
R T
Probe To
Park All Motor
Home All Motor
Exercise Motor
Probe Contact
Probe Separate
1. Home all Motors to insure the tool is in a safe state.
ChuckElev
Position
Home
11.00mm
1.27
U
J
Close
Other
Temp 18.9 C
DI 11110111 111
11111111 11111111
Ready
NUM
Start
CDE ResMap Automa...
Exploring - how to calibrate...
3:34 PM

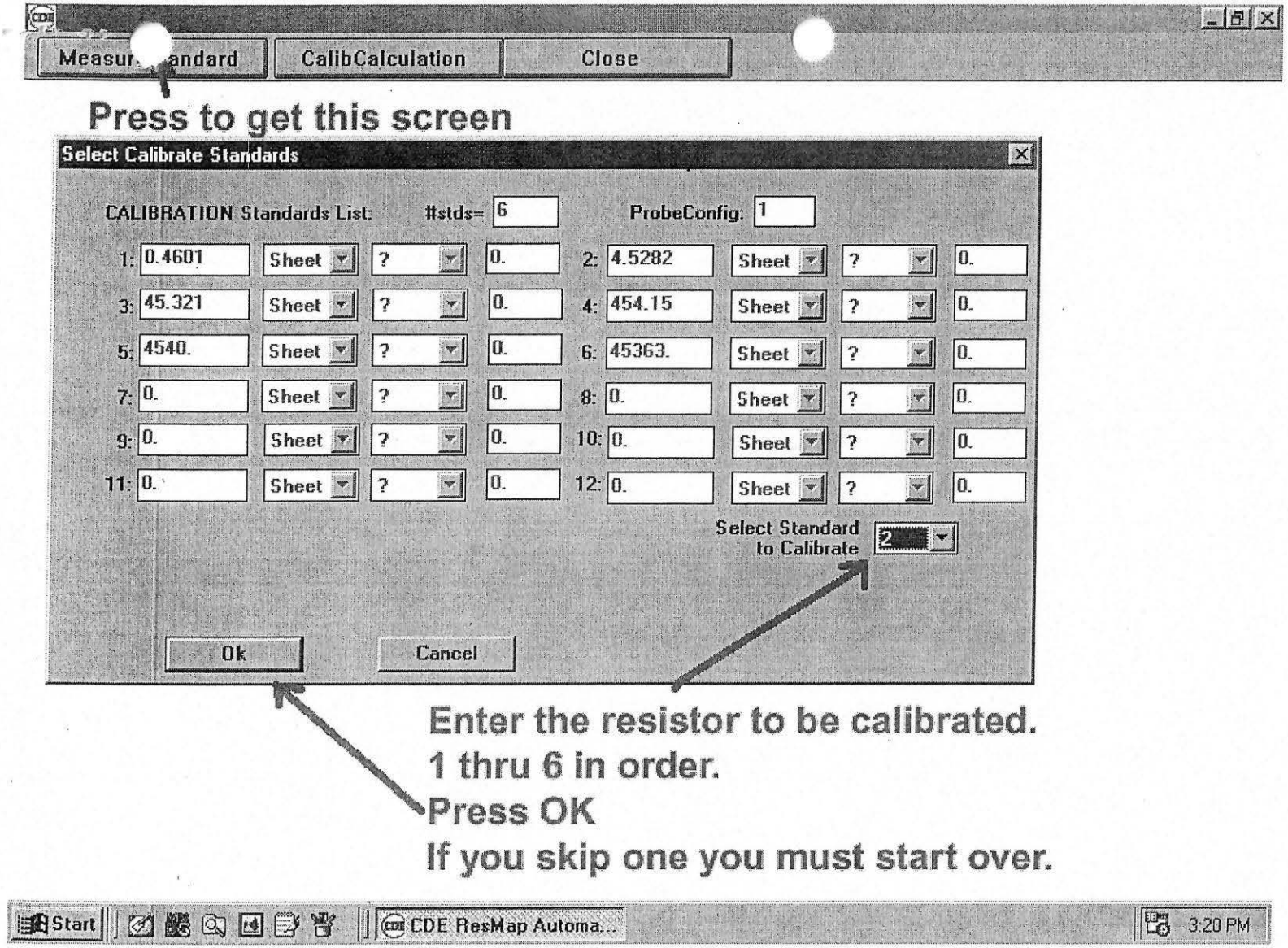


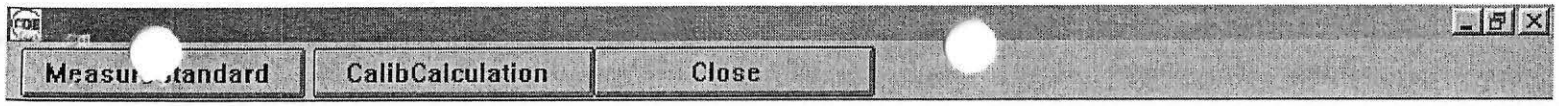
Depending on the cable connector, it may be necessary to remove the probe arm cover and plug the resistor pack cable directly to amplifier board.


CDE ResMap Automatic 4-Point Probe: psiloQuest
Operator
Utilities
Password
SECS
Edit Recipe
Run Recipe Alt.
Map Wafer
GainSet/1pt Meas
ViewData
Write Data File
Calibrate
Set Calibration Standards
NUM
Start
CDE ResMap Automa...
4:48 PM


CDE ResMap Automatic 4-Point Probe: psiloQuest
Operator Utilities Password SECS
Set stds = 6
Very Important! Make sure this value is 1.
Edit Calibration Standards
CALIBRATION Standards List:
#stds= 6
ProbeConfig: 1
1: 0.4601 Sheet ? 0.
2: 4.5282 Sheet ? 0.
3: 45.321 Sheet ? 0.
4: 454.15 Sheet ? 0.
5: 4540. Sheet ? 0.
6: 45363. Sheet ? 0.
7: 0. Sheet ? 0.
8: 0. Sheet ? 0.
9: 0. Sheet ? 0.
11: 0. Sheet ? 0.
Finally Save
Save
Cancel
Input values on resistor pack to corresponding boxes
s/n B4351
Rs (Single)
0.46008 1
2 4.5282
45.321 3
4 454.15
4,540.0 5
6 45,363
Ready
NUM
Start
CDE ResMap Automa...
set standards.bmp - Paint
4:49 PM

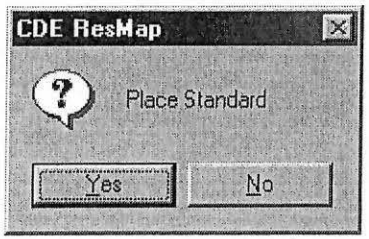

CDE ResMap Automatic 4-Point Probe: psiloQuest
Operator
Utilities
Password
SECS
Edit Recipe
Run Recipe Alt.
Map Wafer
GainSet/1pt Meas
ViewData
Write Data File
Calibrate
Set Calibration Standards
NUM
Start
CDE ResMap Automa...
4:50 PM


Measur andard
CalibCalculation
Close
Press to get this screen
Select Calibrate Standards
CALIBRATION Standards List:
#stds= 6
ProbeConfig: 1
1: 0.4601 Sheet ? 0.
2: 4.5282 Sheet ? 0.
3: 45.321 Sheet ? 0.
4: 454.15 Sheet ? 0.
5: 4540. Sheet ? 0.
6: 45363. Sheet ? 0.
7: 0. Sheet ? 0.
8: 0. Sheet ? 0.
9: 0. Sheet ? 0.
10: 0. Sheet ? 0.
11: 0. Sheet ? 0.
12: 0. Sheet ? 0.
Select Standard to Calibrate
2
Ok
Cancel
Enter the resistor to be calibrated.
1 thru 6 in order.
Press OK
If you skip one you must start over.
Start
CDE ResMap Automa...
3:20 PM

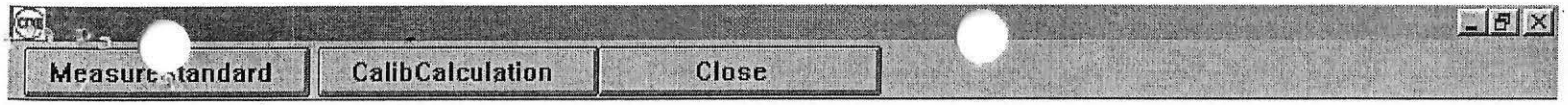


Put the wire on the resistor pack to value #1

Then press YES



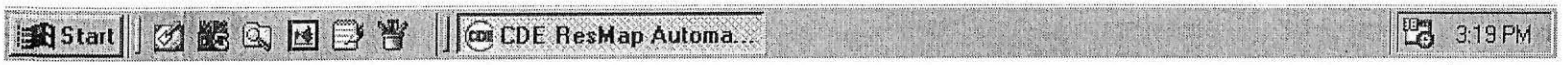
Notice that the next resistor is across not down.

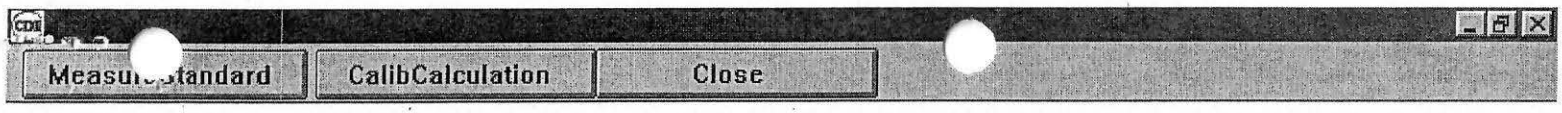



```
CALIB:    9.722400  99.69100  1007.300  10.0084K  98.5980K  921.948K  12.0732M
          1  12 0.2 2  11 0.0 2 3.8 0.0
 0.4601   0.459-0.1 0.460 0.1 0.460 0.0
```

```
GV Mrt XSq
MsmDat %df
CalDat %df
```

You will see this screen.
Move the wire on the resistor pack to place number 2
Press measure standard again, choose the next resistor value 2

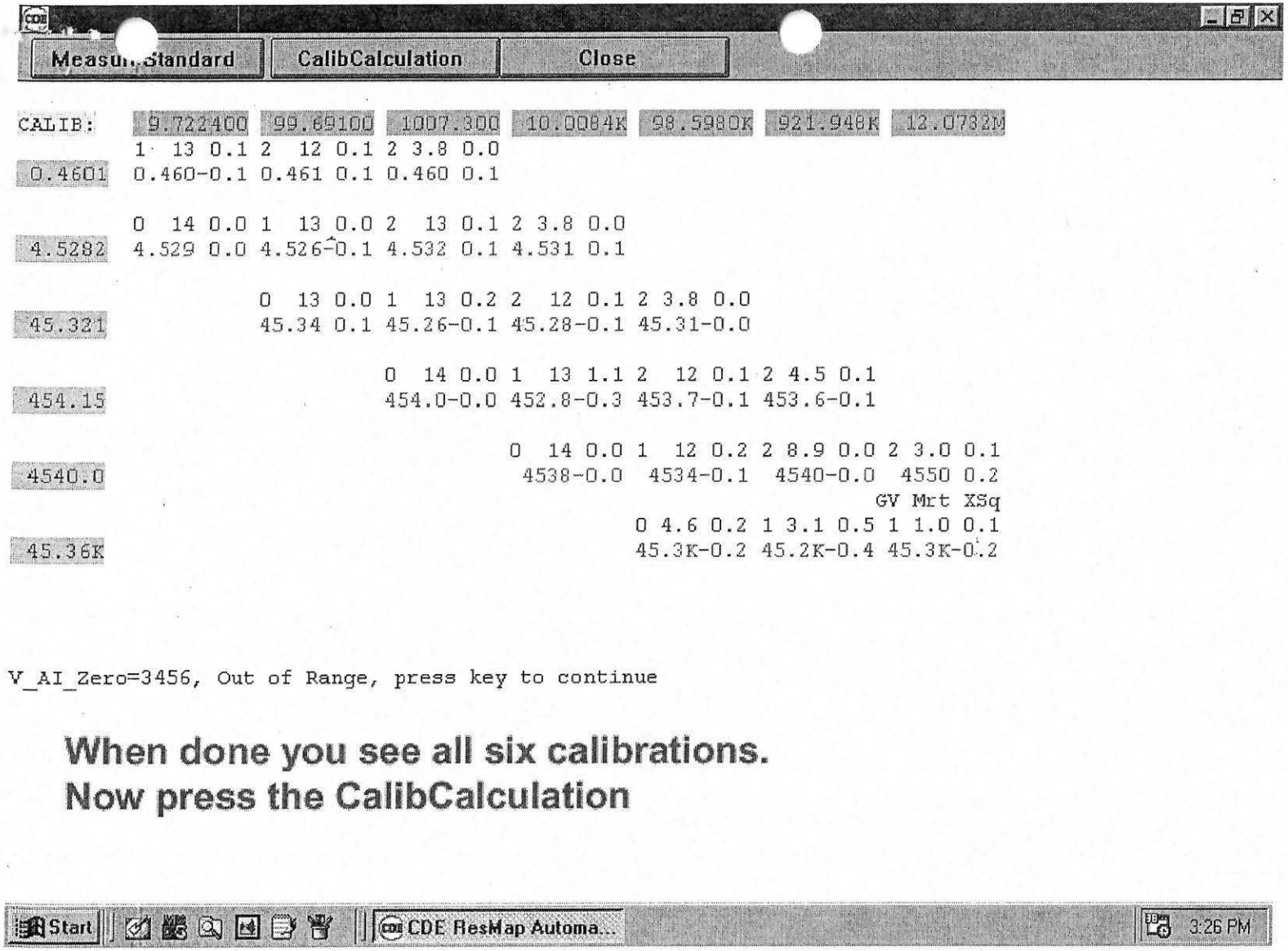




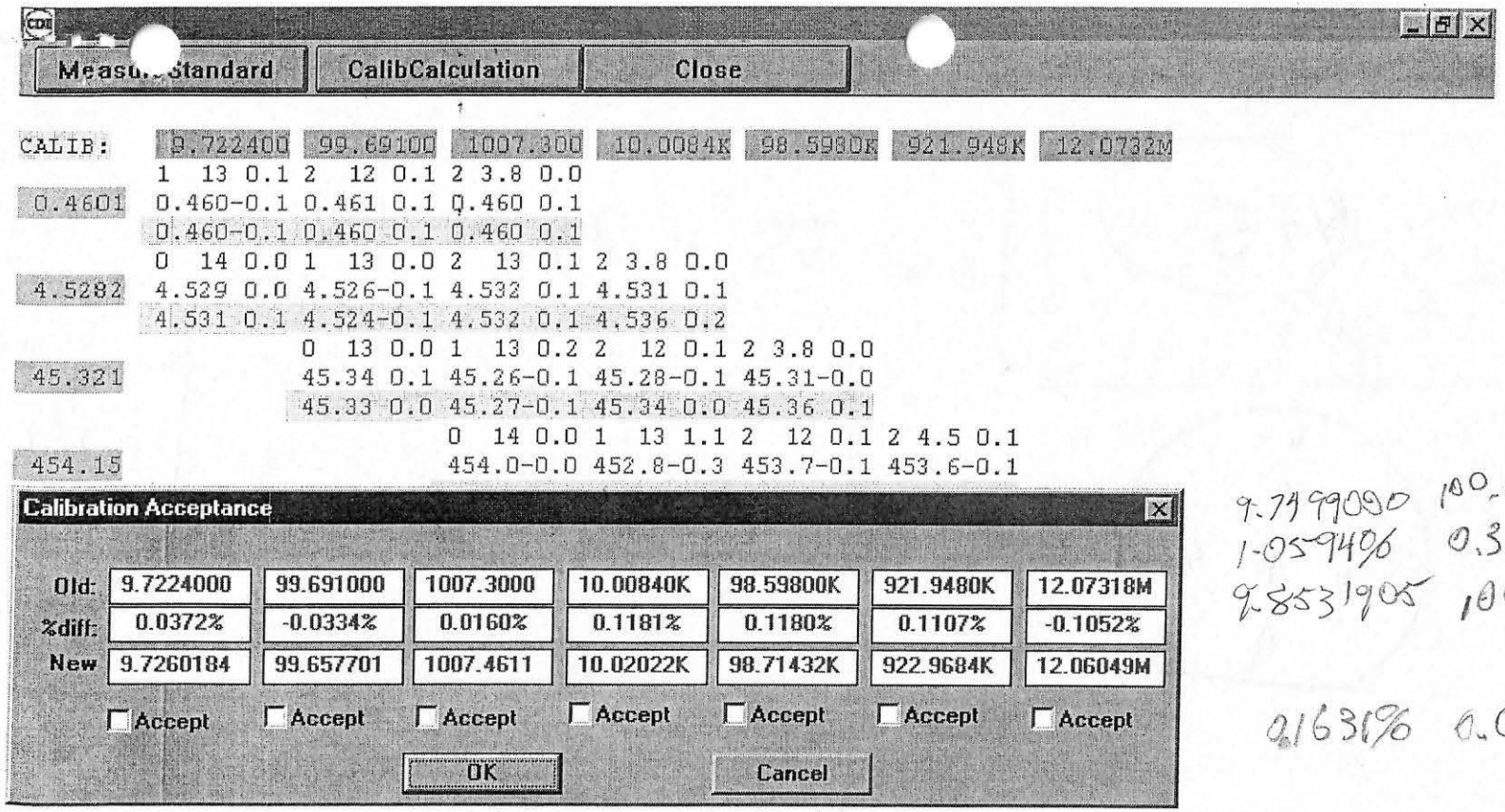

```
CALIB:    9.722400  99.69100  1007.300  10.0084K  98.5980K  921.948K  12.0732M
          1  12 0.2 2  11 0.0 2 3.8 0.0
 0.4601   0.459-0.1 0.460 0.1 0.460 0.0

          0  15 0.0 1  12 0.1 2  12 0.1 2 3.7 0.0
 4.5282   4.529 0.0 4.525-0.1 4.531 0.1 4.528 0.0
```

```
GV Mrt XSq
MsmDat %df
CalDat %df
```

You will get this screen.
Repeat moving the wire and choosing the next standard.



When done you see all six calibrations.
Now press the CalibCalculation



9.7199090 100.61600 991.47000
1.0594% 0.3077% 1.2738%
9.8531905 100.92561 1012.2098

0.1631% 0.0855% 0.2152

Accept all the boxes. Then repeat the calibration in full one more iteration to get tighter results. Accept the values again.

Calibration is now complete.