

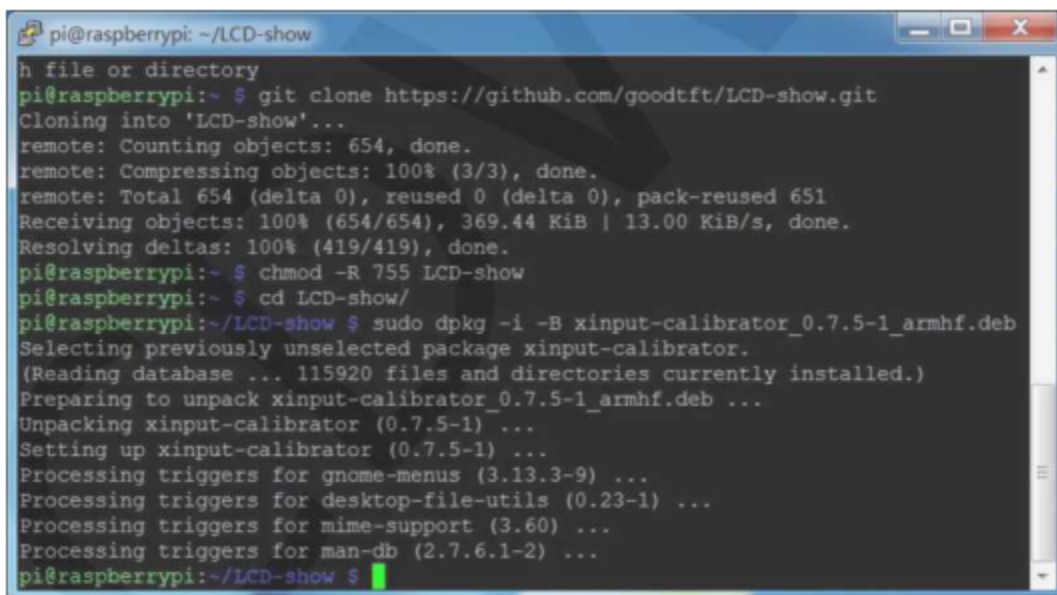
How to calibrate the resistance touch screen

(Only applicable to resistance touch screen, capacitance touch screen is not applicable)

1. Install Xinput, execute the following command code in the Raspberry Pi

(Note: The Raspberry Pi connection network is required for installation)

```
sudo rm -rf LCD-show
git clone https://github.com/goodtft/LCD-show.git
chmod -R 755 LCD-show
cd LCD-show/
sudo dpkg -i -B xinput-calibrator_0.7.5-1_armhf.deb
```



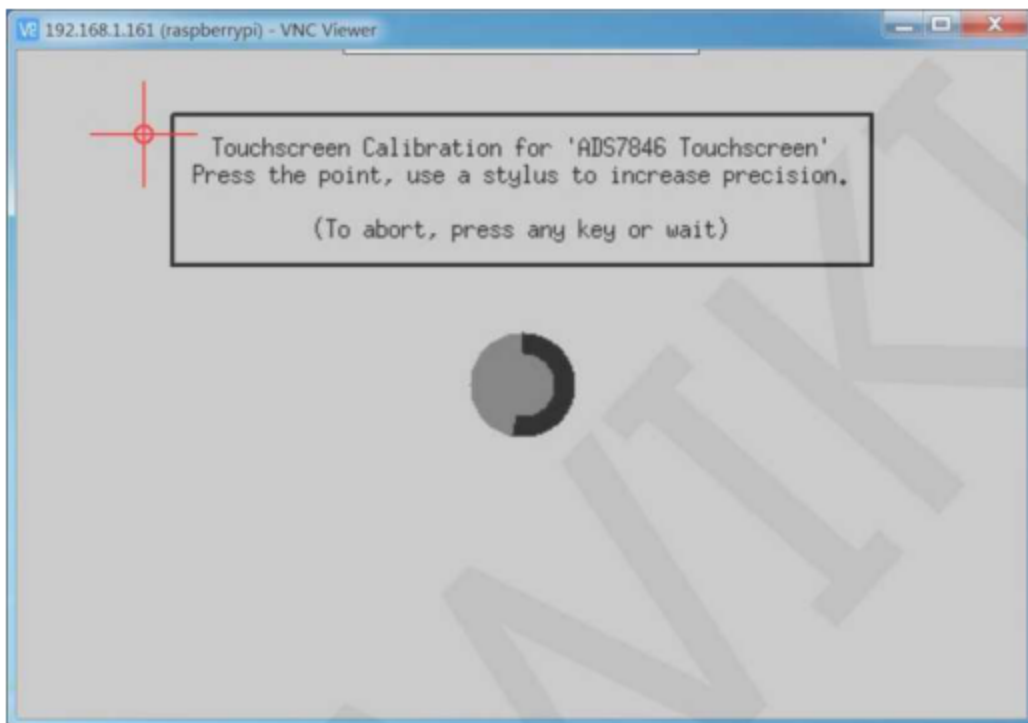
```
pi@raspberrypi: ~/LCD-show
h file or directory
pi@raspberrypi:~ $ git clone https://github.com/goodtft/LCD-show.git
Cloning into 'LCD-show'...
remote: Counting objects: 654, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 654 (delta 0), reused 0 (delta 0), pack-reused 651
Receiving objects: 100% (654/654), 369.44 KiB | 13.00 KiB/s, done.
Resolving deltas: 100% (419/419), done.
pi@raspberrypi:~ $ chmod -R 755 LCD-show
pi@raspberrypi:~ $ cd LCD-show/
pi@raspberrypi:~/LCD-show $ sudo dpkg -i -B xinput-calibrator_0.7.5-1_armhf.deb
Selecting previously unselected package xinput-calibrator.
(Reading database ... 115920 files and directories currently installed.)
Preparing to unpack xinput-calibrator_0.7.5-1_armhf.deb ...
Unpacking xinput-calibrator (0.7.5-1) ...
Setting up xinput-calibrator (0.7.5-1) ...
Processing triggers for gnome-menus (3.13.3-9) ...
Processing triggers for desktop-file-utils (0.23-1) ...
Processing triggers for mime-support (3.60) ...
Processing triggers for man-db (2.7.6.1-2) ...
pi@raspberrypi:~/LCD-show $
```

2. Execute the touch calibration command

```
DISPLAY=:0 xinput_calibrator
```

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At this point, the screen will pop up the touch calibration interface, and then click four calibration points with the touch pen to complete the calibration



New touch parameters will be displayed after calibration, (different types of LCD, different calibration times, and different parameters), as shown below:

```
pi@raspberrypi: ~/LCD-show
Preparing to unpack xinput-calibrator_0.7.5-1_armhf.deb ...
Unpacking xinput-calibrator (0.7.5+git20140201-1) ...
Setting up xinput-calibrator (0.7.5+git20140201-1) ...
Processing triggers for man-db (2.7.6.1-2) ...
Processing triggers for gnome-menus (3.13.3-9) ...
Processing triggers for desktop-file-utils (0.23-1) ...
Processing triggers for mime-support (3.60) ...
pi@raspberrypi:~/LCD-show $ DISPLAY=:0.0 xinput_calibrator
Calibrating EVDEV driver for "ADS7846 Touchscreen" id=6
current calibration values (from XInput): min_x=140, max_x=3951 and min_y=261, max_y=3998

Doing dynamic recalibration:
Setting calibration data: 167, 3969, 295, 4038
--> Making the calibration permanent <--
copy the snippet below into '/etc/X11/xorg.conf.d/99-calibration.conf' (/usr/share/X11/xorg.conf.d/ in some distro's)
Section "InputClass"
    Identifier      "calibration"
    MatchProduct    "ADS7846 Touchscreen"
    Option "Calibration" "167 3969 295 4038"
    Option "SwapAxes" "0"
EndSection
pi@raspberrypi:~/LCD-show $
```

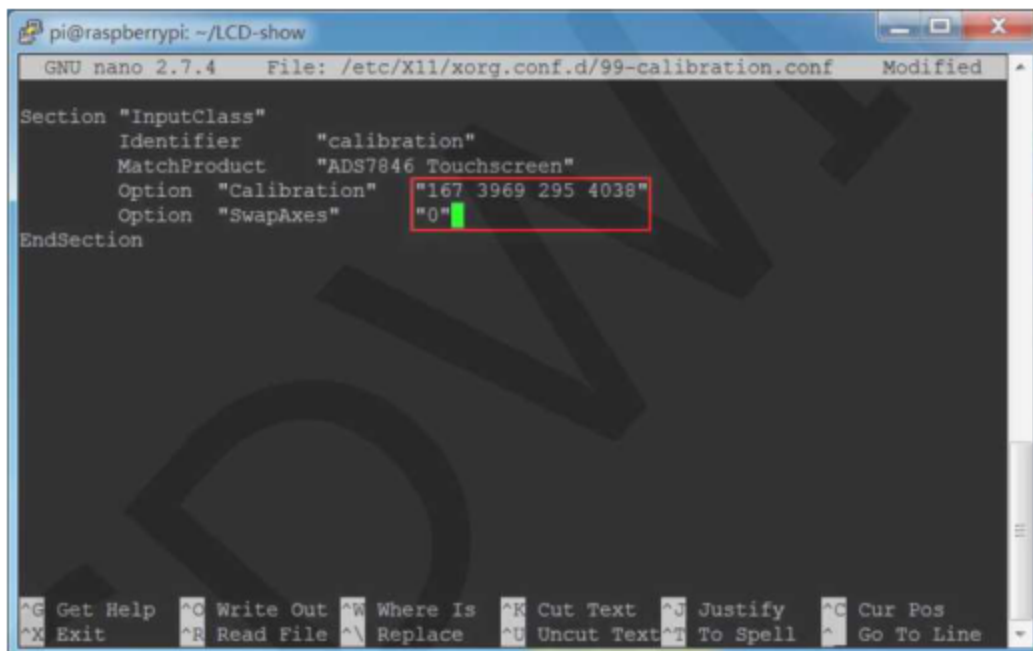
3. Save the calibrated touch parameters

3.1 Execute the following command code, open the **99-calibration.conf** file

```
sudo nano /etc/X11/xorg.conf.d/99-calibration.conf
```

3.2 Save the calibrated touch parameter in the **99-calibration.conf** file

Press **Ctrl+X**, exit:

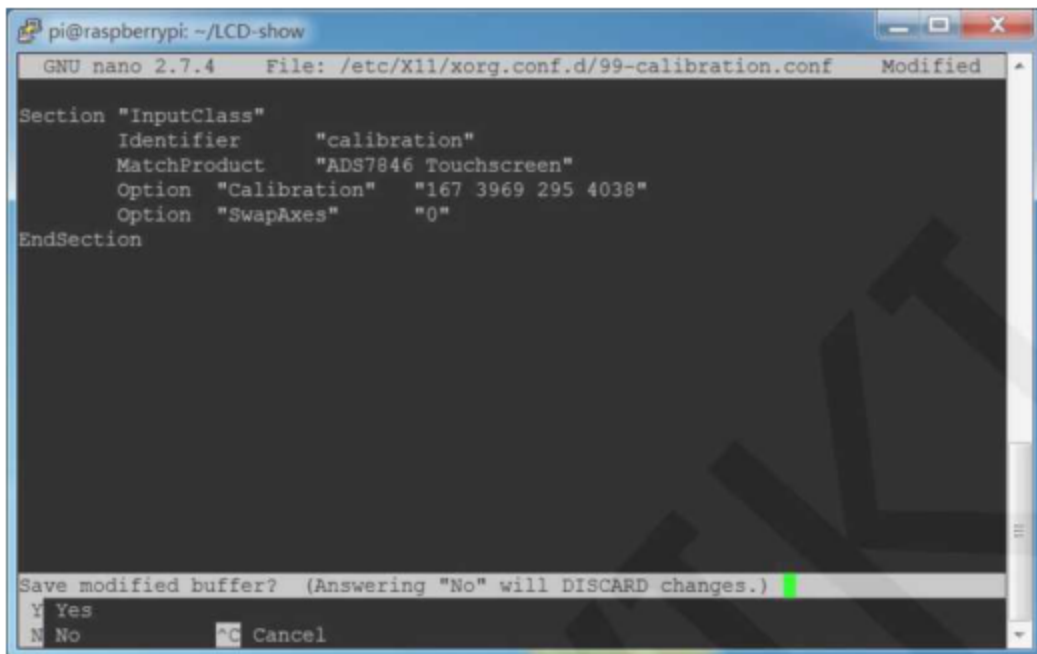


```
pi@raspberrypi: ~/LCD-show
GNU nano 2.7.4 File: /etc/X11/xorg.conf.d/99-calibration.conf Modified
Section "InputClass"
Identifier      "calibration"
MatchProduct   "ADS7846 Touchscreen"
Option "Calibration" "167 3969 295 4038"
Option "SwapAxes" "0"
EndSection

^G Get Help  ^O Write Out  ^W Where Is  ^K Cut Text  ^J Justify   ^C Cur Pos
^X Exit      ^R Read File  ^\ Replace   ^U Uncut Text ^T To Spell  ^_ Go To Line
```

3.3 Press **Y**, confirm to save:

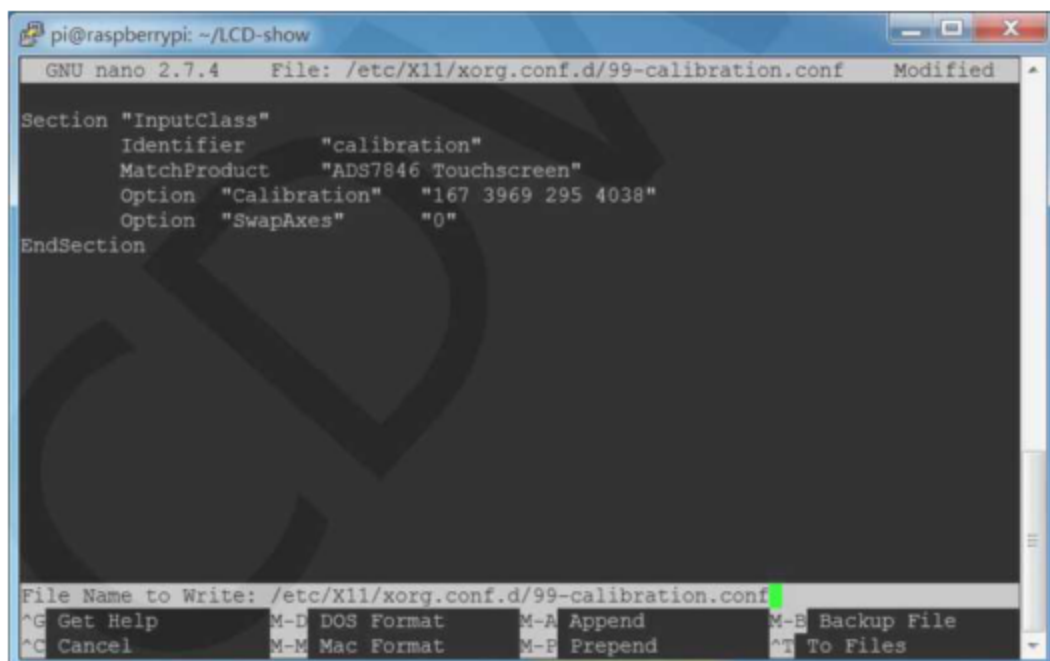
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```
pi@raspberrypi: ~/LCD-show
GNU nano 2.7.4 File: /etc/X11/xorg.conf.d/99-calibration.conf Modified
Section "InputClass"
  Identifier      "calibration"
  MatchProduct   "ADS7846 Touchscreen"
  Option "Calibration" "167 3969 295 4038"
  Option "SwapAxes"  "0"
EndSection

Save modified buffer? (Answering "No" will DISCARD changes.)
Y Yes
N No      C Cancel
```

3.4 Press **Enter**, make sure to save the file name:



```
pi@raspberrypi: ~/LCD-show
GNU nano 2.7.4 File: /etc/X11/xorg.conf.d/99-calibration.conf Modified
Section "InputClass"
  Identifier      "calibration"
  MatchProduct   "ADS7846 Touchscreen"
  Option "Calibration" "167 3969 295 4038"
  Option "SwapAxes"  "0"
EndSection

File Name to Write: /etc/X11/xorg.conf.d/99-calibration.conf
^G Get Help      M-D DOS Format  M-A Append      M-B Backup File
^C Cancel        M-M Mac Format  M-P Prepend     ^O To Files
```

3.5 Restart the Raspberry Pi

```
sudo reboot
```