

Installation and user guide for C21 Calibration APK rev1

Purpose:

The APK “PLCalibrator.apk” is to calibrate
Light Sensor, Proximity Sensor, and Touch Panel.

This calibration is needed if main PBA or Touch panel are replaced.

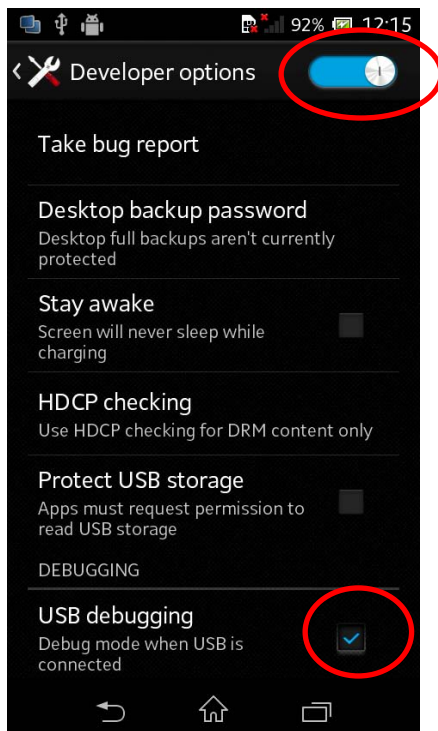
There are 6 chapters in this guide.

1. USB driver installation.
2. How to install C21 calibration APK.
3. How to calibrate Light Sensor.
4. How to calibrate Proximity Sensor and test.
5. How to calibrate Touch Panel and test.
6. How to remove APK and disable USB debugging.

Caution:

Please read 2-d (item d in chapter 2) and 2-e (item e in chapter 2) carefully and follow the rules before you execute calibration, otherwise, it could make the calibration fail.

- ✧ Before installation, please go to device and press menu key → “Settings” → “Developer options” to enable “USB debugging”



1. USB driver installation:

- Since the APK need to be installed by ADB command, please install USB driver first.
- There are 2 ways to install USB driver:
 - a. Via USB driver(PC_usb_driver_sony): Installation guide is in below file

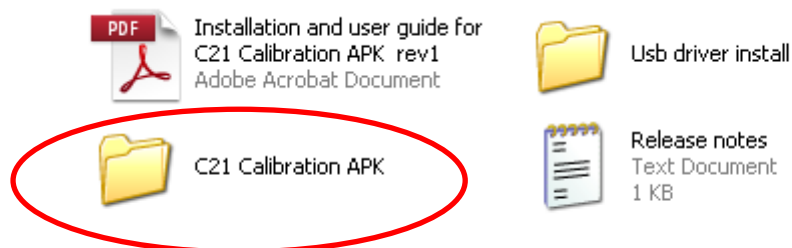


- b. Via PC companion: When plugging USB cable, there is pop up window shown up in the device, tap "install" for installation

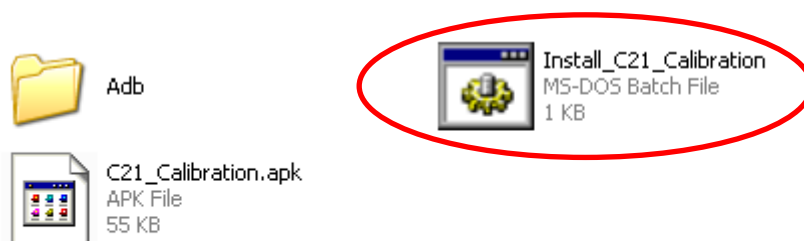


2. How to install C21 calibration APK.

- Prepare a PC and connect to device with USB cable and wait for USB driver installs.
- Open C21 Calibration APK folder.



- c. Double click [Install_C21 calibration.bat](#) to install calibration Apk.



Below screenshot should be shown in PC:

```
C:\WINDOWS\system32\cmd.exe

C:\Documents and Settings\23049357\Desktop\C21 calibration\C21 Calibration APK>adb devices
List of devices attached
ZH0000070M      device

C:\Documents and Settings\23049357\Desktop\C21 calibration\C21 Calibration APK>adb install C21_Calibration.apk
1729 KB/s (55333 bytes in 0.031s)
pkg: /data/local/tmp/C21_Calibration.apk
Success

C:\Documents and Settings\23049357\Desktop\C21 calibration\C21 Calibration APK>pause
Press any key to continue . . .
```

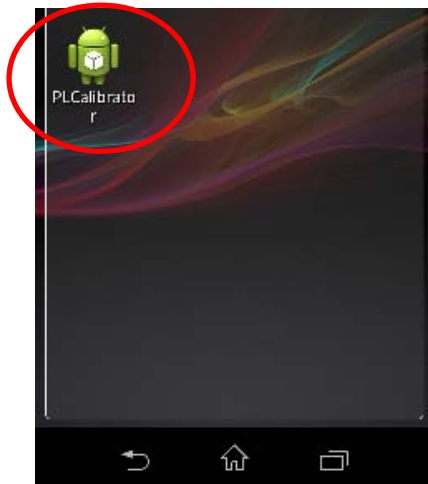
If **Success**, the APK are installed.

d. Unplug USB cable

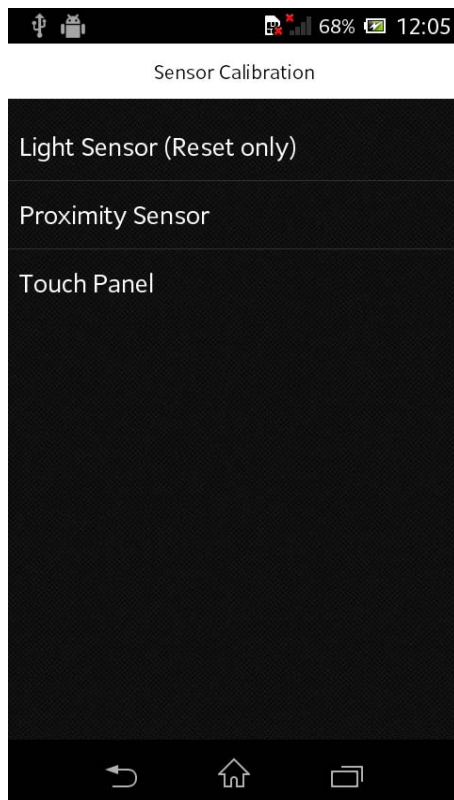
The most important step, please remember to unplug USB cable before you execute the application. The USB connection will interfere with calibration.

e. Select “PLCalibrator” icon to let the device execute auto calibration.

- Please keep flat on the wood-made desk before calibration.
- Don't touch or rotate the phone during calibrating.

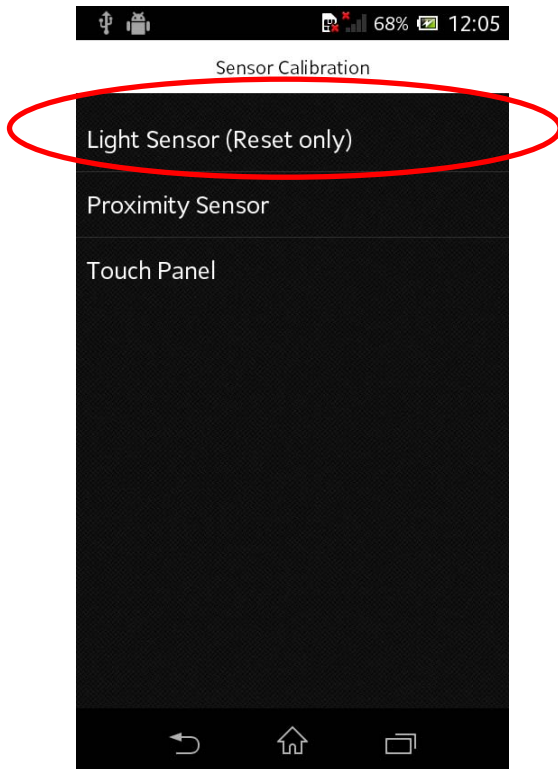


f. There would be three items presented for the calibration process of Light Sensor (Reset only), Proximity Sensor, and Touch Panel correspondingly.

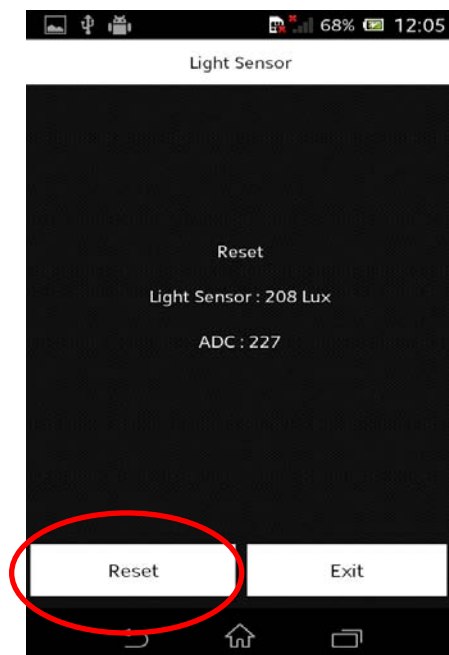


3. How to calibrate Light Sensor.

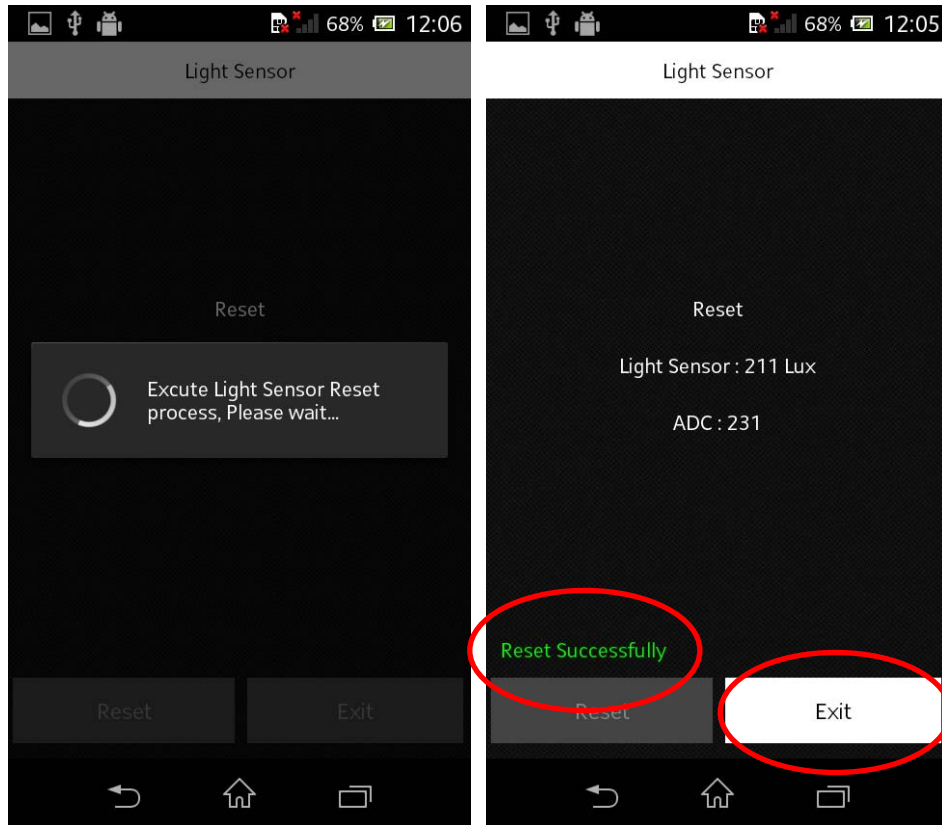
Press "Light Sensor (Reset only)" item in Sensor Calibration to enter the page of Light Sensor calibration.



Press button "Reset" to start calibration reset.



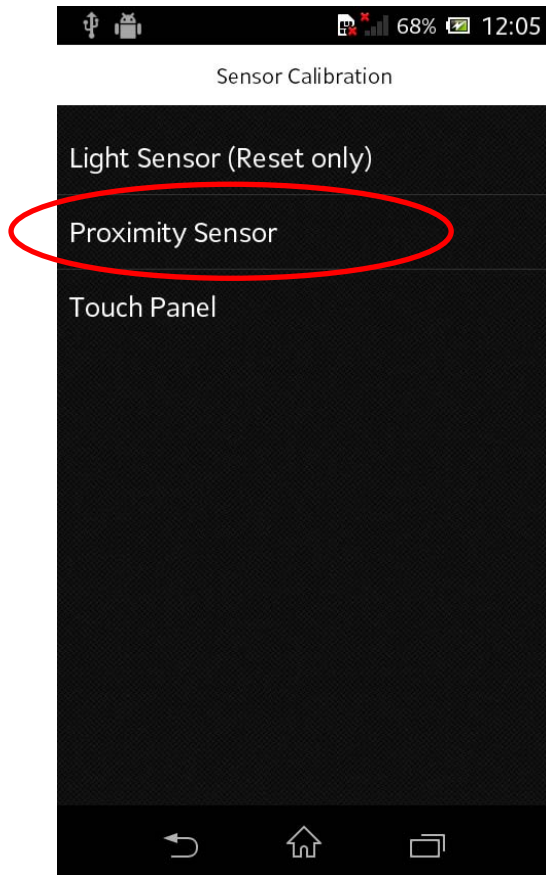
After a progress dialog showing for a while, the result will be displayed at the bottom of the page, with "Reset Successfully" in green.



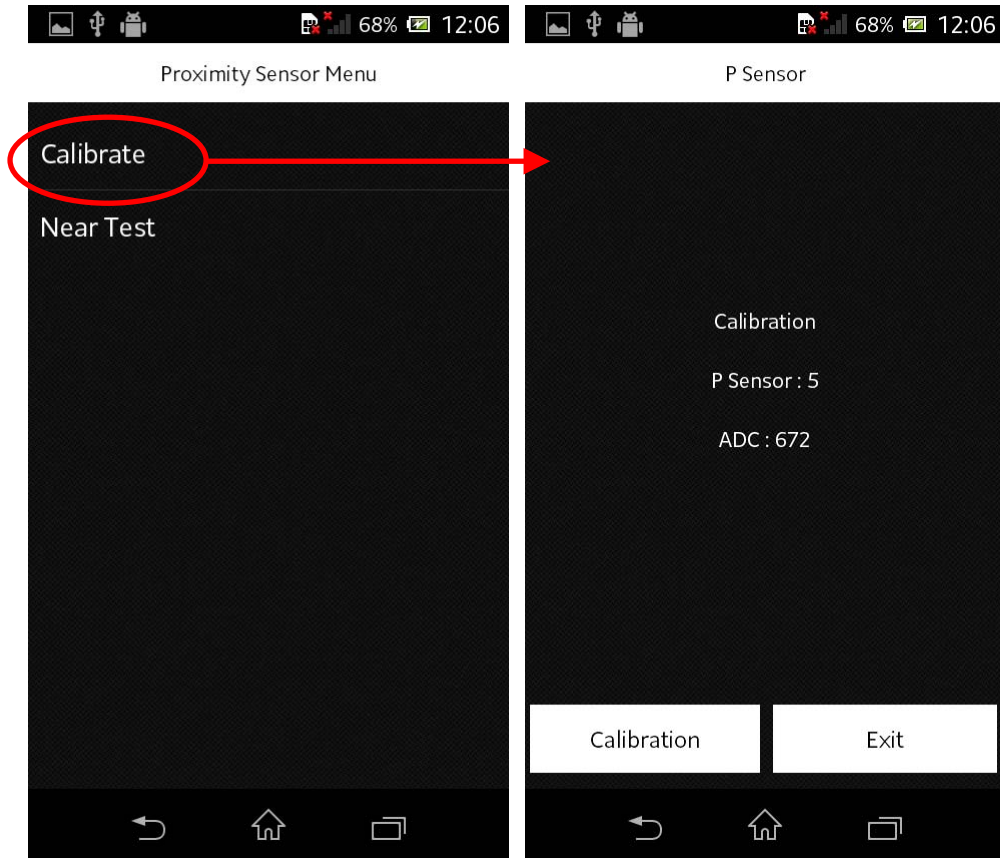
Press button "Exit" to enter Sensor Calibration.

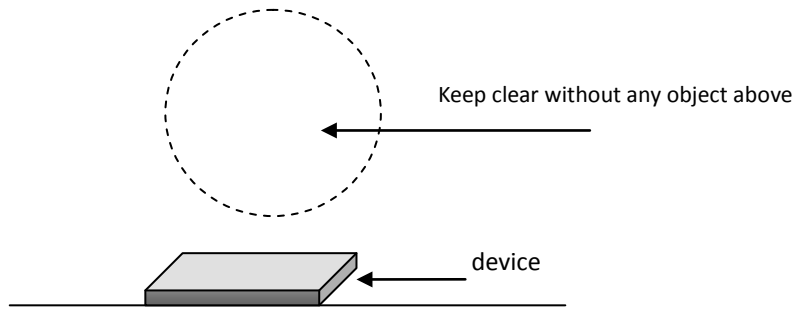
4. How to calibrate Proximity Sensor and test.

Press “Proximity Sensor” item in Sensor Calibration to enter the menu of Proximity Sensor Calibration.

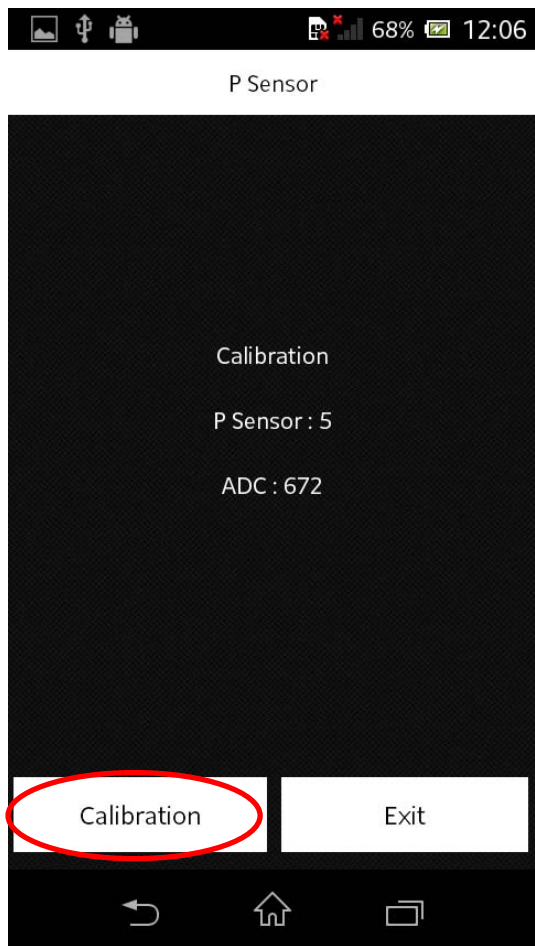


Press "Calibrate" item to enter calibration page with displaying current proximity detection and ADC value.

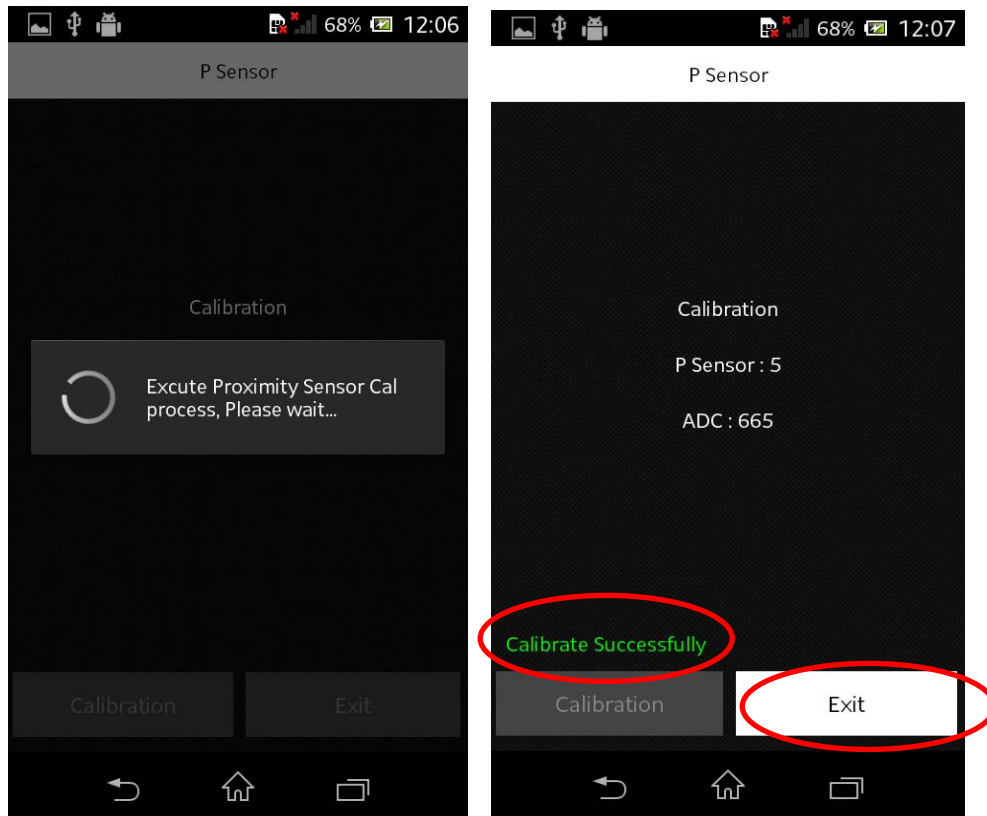




Press button "Calibration" without covering the device.

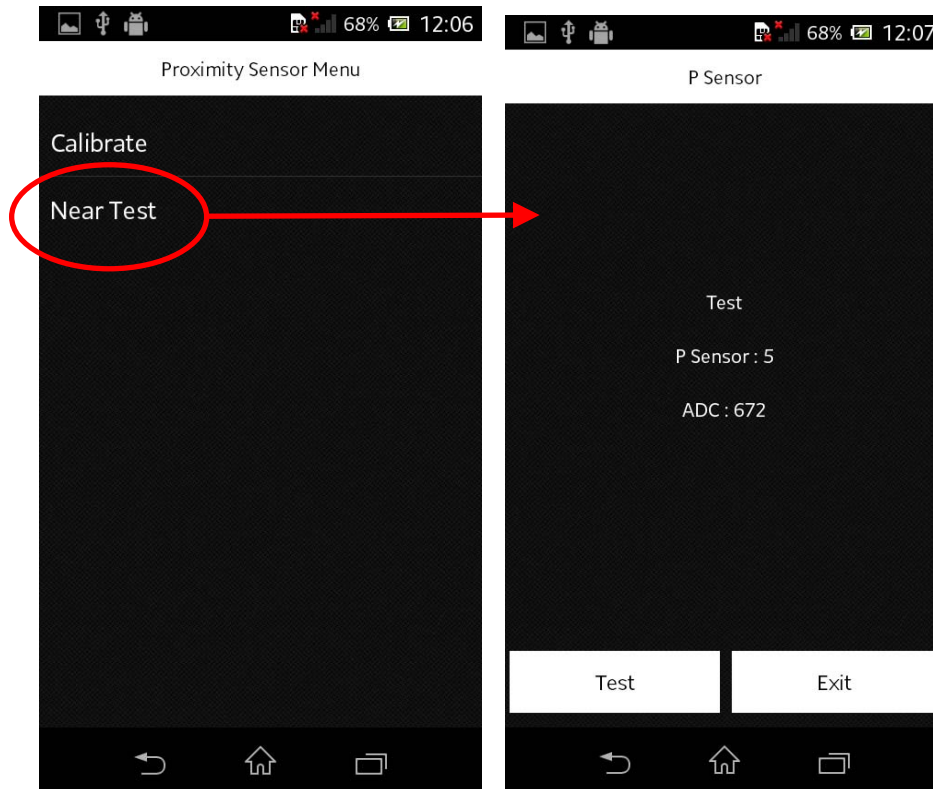


After a progress dialog showing for a while, the result will be displayed at the bottom of the page, with "Calibrate Successfully" in green.

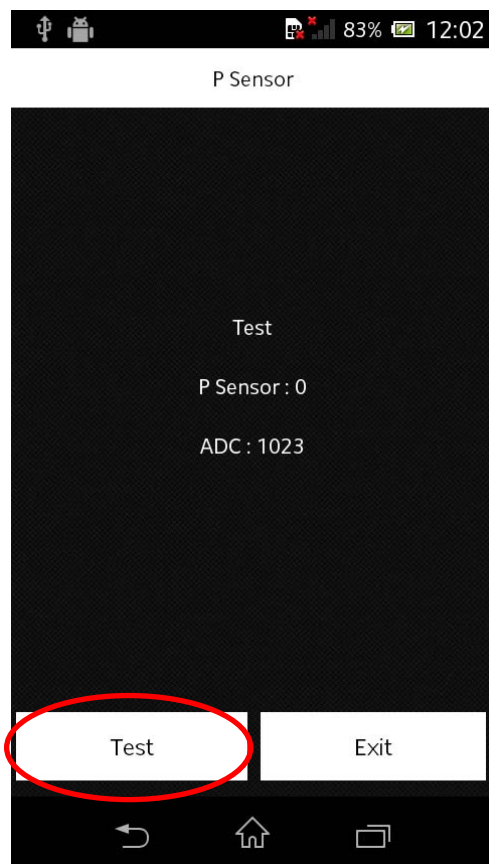
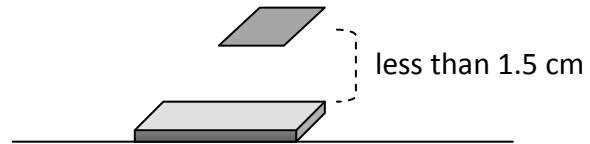


Press button "Exit" to return to previous page.

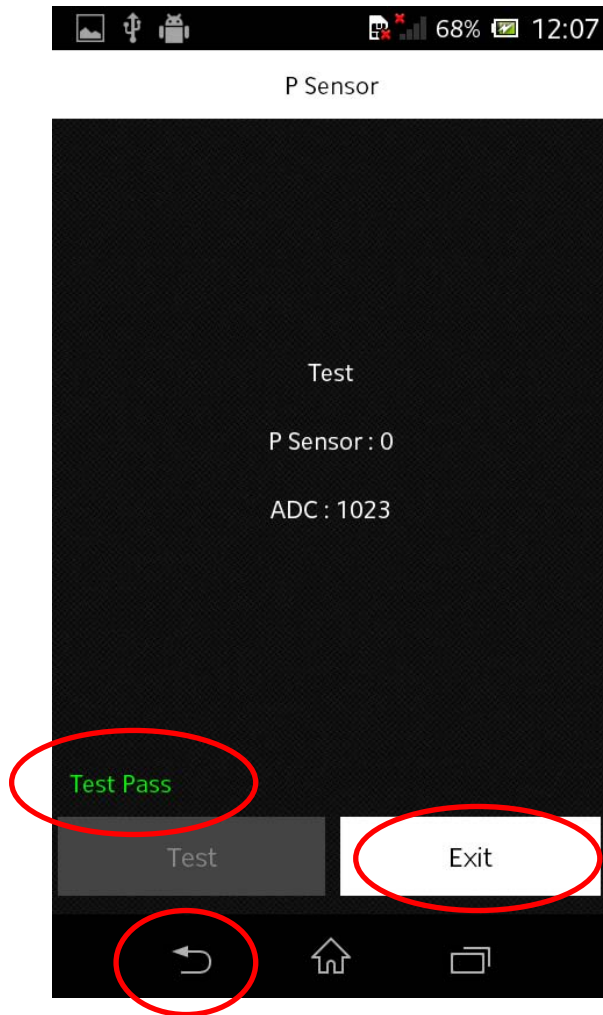
Press "Near test" to enter testing page with displaying current proximity detection and ADC value.



Cover the device with an object (e.g. gray card or hand) in 1.5 cm, and press button "test".



The result will be displayed at the bottom of the page, showing "Test Pass" in green



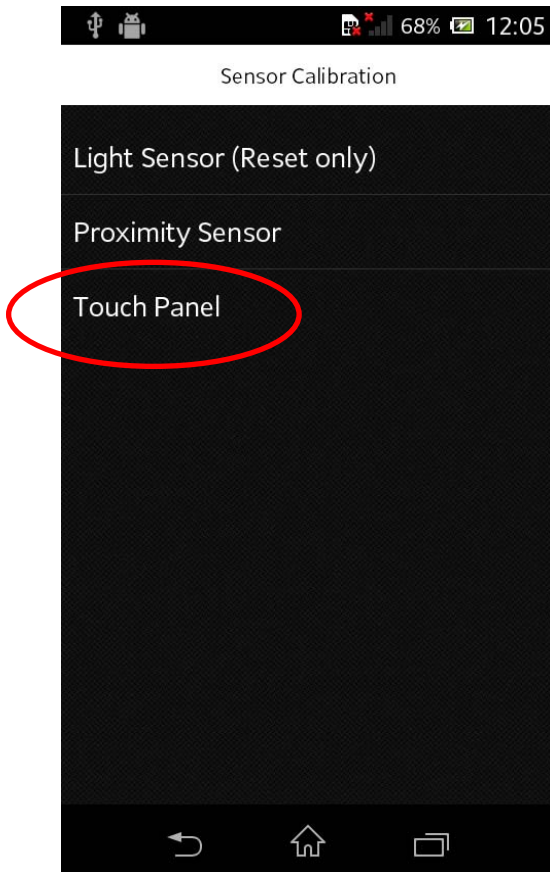
Press button "Exit" and button "Return" to enter Sensor Calibration.

5. How to calibrate Touch Panel and test.

Press “Touch Panel” item in Sensor Calibration to enter the page of Touch Panel Calibration.

Warning pop up **Not Touch**

A spinner waiting dialog will present with red background.



After 10 to 20 seconds as the calibration process completed, the waiting dialog will disappear and the result "Calibrate Successfully" in green will display in the center of the page.

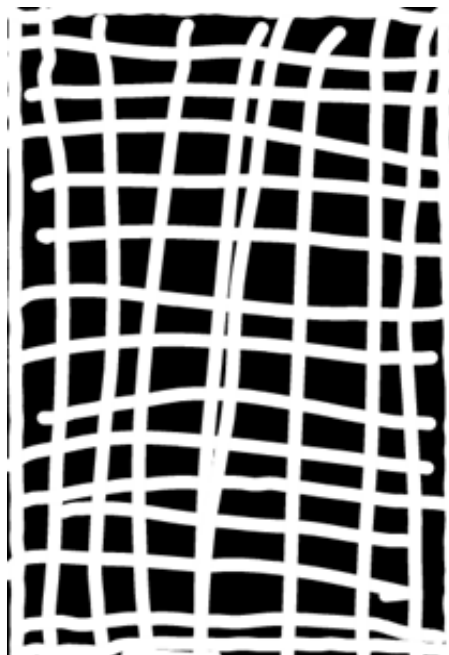
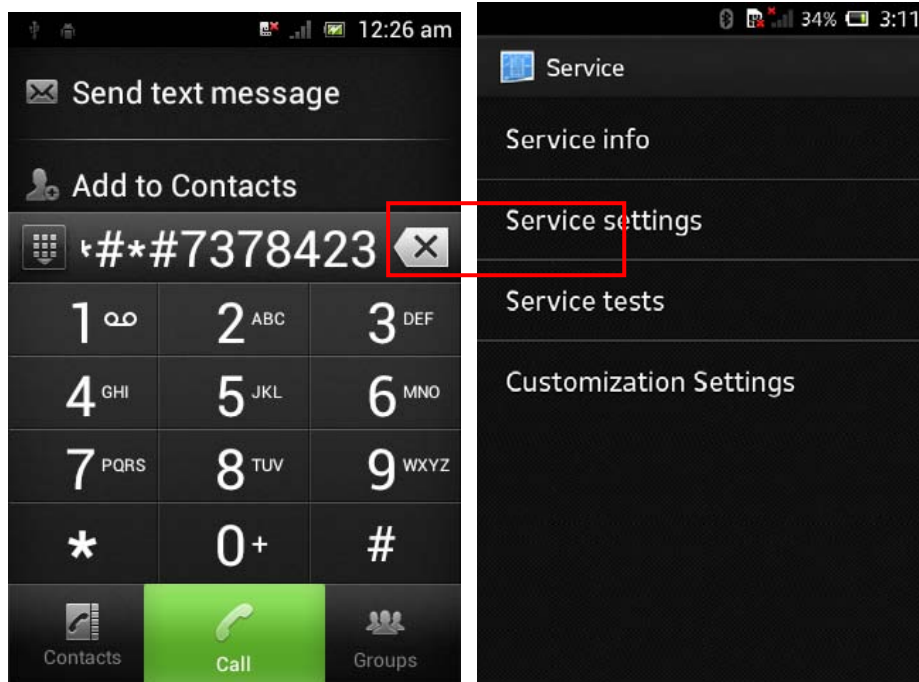


Press button "Exit" to enter Sensor Calibration.

After calibration, please press Home key and go to Dialer page.

Dial ***##7378423##** to enter Service Menu.

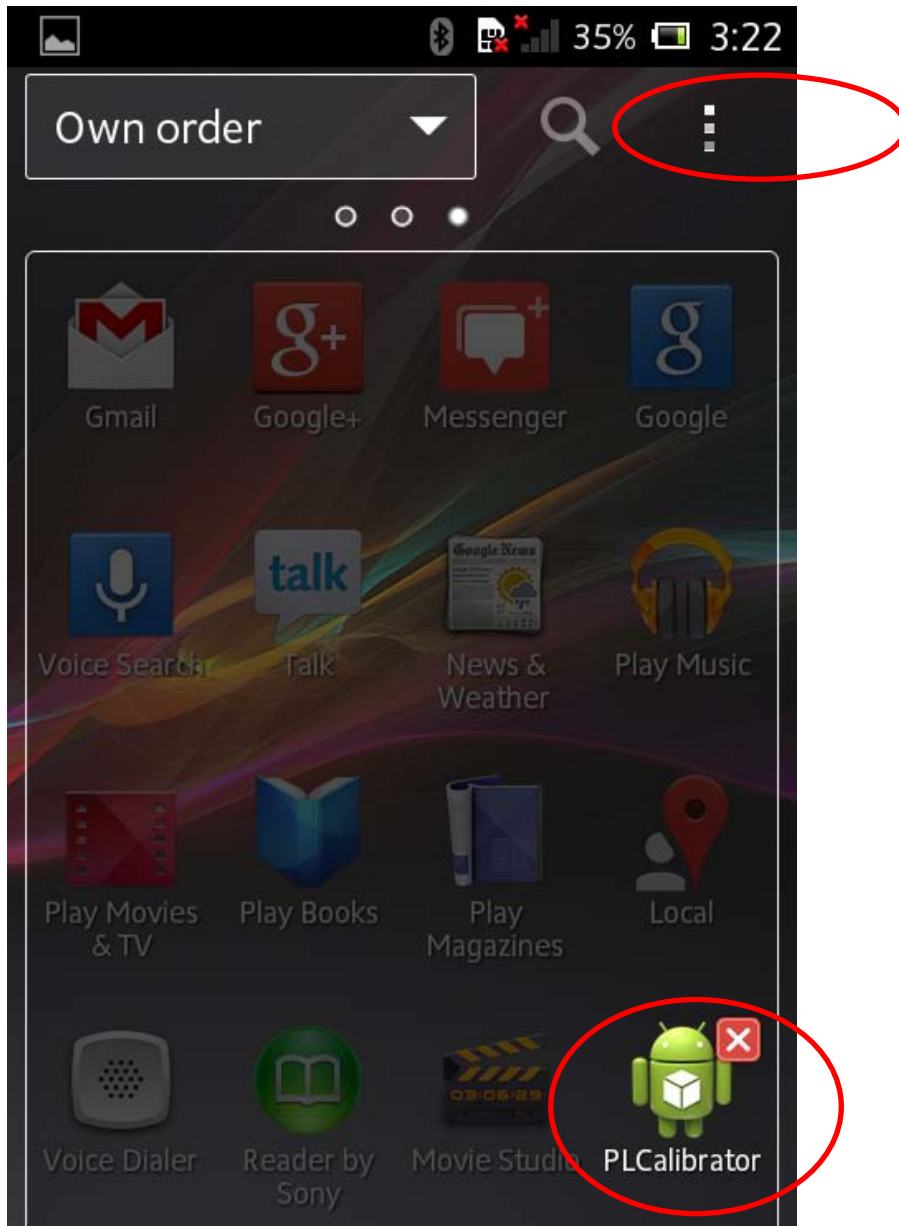
Press “**Service Tests**” → “**Touch screen**” then draw the line to verify touch panel.



If Touch test fail then do Touch Panel calibration again.

6. How to remove the APK and disable USB debugging.

Press Uninstall.



Then uninstall page will be shown up. Press "Uninstall".

Please go to device and press menu key → “Settings” → “Developer options” to disable “USB debugging”

