ANDROID HIDDEN TREASURES



FAST BOOT MODE

This mode is used to flash the phone firmware using command line tools

What is Fast Boot?

In Android, Fast Boot is a special diagnostic and engineering protocol that you can boot your Android device into.

While in Fast Boot , you can modify the file system images from a computer over a USB connection. Step 1. Power off your phone.
Step 2. Press and
hold OK/Home and End
Call/Power keys.
Step 3. Or press and hold Volume
Up, Volume Down and End
Call/Power keys.

Fast Boot is three different things with the same name:

1. A protocol for communication between your phone hardware and a computer,

2. Software that runs on the phone when in FastBoot mode

3. Executable file on the computer you use to make them talk to each other.

DOWNLOAD MODE

This mode is used to flash the phone firmware using command line tools

What is Download/Odin Mode?

Used to flash the firmware or root your Samsung

This mode is a default feature so far only available on Samsung devices like Samsung Galaxy S5/S6/S7/S8. Step 1. Power off
Step 2. Press and hold down "Volume
Down", "Home" and "Power" keys at the same time until you see the
Samsung Logo screen shows up.
Step 3. Immediately let go of the buttons and press "Volume Up" to enter Download Mode.

As the name implies, it aims to **download some packages or firmware** especially when the device is acting up.

Also, it works with Odin tool if you want to flash the firmware or root your Samsung.

RECOVERY MODE

This mode is used for recovery purposes like to reset the phone firmware.

What is Recovery Mode?

Android devices have a feature called <u>Android Recovery Mode</u>

It allows users to fix some problems in their phones or tablets.

Refers to a special bootable partition, which contains a recovery application installed in it. Step 1. Power off your phone.
Step 2. Press and hold Volume
Up, OK/Home and End
Call/Power keys.
Step 3. Once the alert triangle is shown on screen, press "Menu" key to reset the firmware or press "OK/Home" and "End Call/Power" keys to show recovery menu.

In Android devices, Recovery is an Android-based, lightweight runtime environment which is separate from and parallel to the main Android operating system.

There are mainly two kinds of recoveries:

stock recovery and **custom recovery**. In recovery mode, you will get some advanced options.

SAFE MODE

Safe mode used to start your device with only the original software that came with it.

What is Safe Mode?

Builds a clean and secure environment, where only original apps that came with your device can be seen or run.

You can boot into safe mode and see whether the problem still exists. If not, the problem is likely caused by third-party apps and you can try uninstalling the suspicious apps that may cause the problem in App manager. Step1. Press and hold your device's power button.
Step2. On your screen, touch and hold Power off .
Step 3. If needed, tap OK.
Your device starts in safe mode. You'll see "Safe mode" at the bottom of your screen.

This mode will tell you if your SmartPhone's problems, like restarting itself, lagging, freezing, battery issues, or data disappearing, are caused by third-party applications or not.

Hidden in the settings on your phone, (they are hidden by default) are settings used for debugging and application development. * 🖀 🛛 📶 74% 🗎 11:10 * ? 2 4 74% 11:10 How to enable Developer Eveloper options Settings **Options Menu**? On Accessibility Step 1. Open Settings Step 2 : Select About Device Accounts or Device Info ***** Deskton hackun nassword Backup and reset Use development settings Step 3. Scroll to the bottom System and select About phone. These settings are intended for Language and input development use only. They can cause Step 4. Scroll to the bottom errors in your device and its Battery applications. and tap Build number 7 Storage CANCEL times. Step 5. Return to the previous Date and time screen to find **Developer** User manual Debugging options near the bottom. Developer options About device

Revoke USB debugging authorization



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Transition animation scale	•Sets the speed for transition animation playback. Again, lower is faster.
Simulate secondary displays	This setting allows developers to simulate different screen sizes. It's pretty wonky.
Force GPU rendering	Forces applications to use hardware 2D rendering if they were written to <i>not</i> use it by default.
Show GPU view updates	With this setting, any view that is drawn with the GPU hardware gets a red overlay
Show hardware layer updates	• show the updates to the hardware layers rendered by GPU in a green light for the duration of the frame for the update occurs. Developers can optimize the performance of the app by ensuring the hardware layer updates are not abnormal.
Debug GPU overdraw	• Overdraw happens every time the application asks the system to draw something on top of something else. This setting lets you see when and where this is happening so you know if it is a problem

Force 4x MSAA	• This setting forces multi-sample anti-aliasing (MSAA). Like any other computer graphics hardware, more AA makes things look better, but performance takes a hit.
Strict mode enabled	This setting flashes the screen when an application uses the main thread to perform long, intensive operations
Show CPU usage	Places a tiny window in the upper right of your screen with information about the CPU and how it is being used.
Profile GPU rendering	• This setting can either draw a graph on the screen, or write it to a file. The graph is a visual rendering of how hard the GPU is working. This is another really neat one to try.
Enable OpenGL traces	• This setting watches for OpenGL errors, and places them in the log file you chose when you started it up.
Don't keep activities	• This setting destroys (as in, forces everything closed) any and every application as soon as you leave the main view. Nothing good can come of this, regardless of what you might have heard on the Internet



Secret CODES: INFO

Please Note !

The following presentation slide's Secret Codes might not work on all Android Devices.

Some Android Devices might have their own unique key codes combination.

Please use Google Search to find out information about your own Device. You may use the keywords : "Model # (your Phone) Secret Key Codes "

Secret CODES: IMEI and MEID

WHAT is IMEI ?

The *IMEI* (International Mobile Equipment Identity) is a unique number to identify GSM, WCDMA, and iDEN mobile phones, as well as some satellite phones.

Mostly phone have **one IMEI** number, but in **dual SIM phones are two**.

The **IMEI** is only used for identifying the device and has no permanent or semipermanent relation to the subscriber.

Number is used by the GSM network to identify valid devices and therefore can be used for stopping a stolen phone from accessing the network in that country.

Open Phone APP

Display your IMEI/MEID: *#06#

WHAT is MEID ?

MEID stands for Mobile Equipment Identifier. Similar to an ESN, a phone has a different MEID, just like every human has a different fingerprint.

Phone carriers use your MEID to monitor whether your account has any past due bills or has been reported as lost or stolen.

The MEID system was introduced to replace the ESN system for CDMA <u>MOBILE</u> phones in the United States.

IMEI

How To Find

IMEI Number

Of Any Phone

Secret CODES: Call Forwarding

This code allows you to check which number your phone is currently forwarding calls to when you're busy or reject a call.



Get Even More Info on Call Forwarding: ***#61#**

This code prompts a pop-up that let you know how long until a call is forwarded to the message center.

On the iPhone, regardless of carrier, this code might show the same info as *#67# .



Secret CODES: Hide/Show Caller ID



Secret CODES: Quick Test Menu (Samsung Galaxy Only)

40%

02

- 1. Melody
- 2. Vibration
- 3. Speaker
- 4. Dimming
- 5. Camera
- 6. VT Camera
- 7. Bluetooth
- 8. TSP Dot Mode
- 9. TSP Grid Mode
- 10. Accelerometer Sensor
- 11. Proximity Sensor
- 12. Light Sensor

Open Phone APP Samsung Gaalaxy only

Enter:*#7353#

This code only works on Samsung Galaxy models This is similar to the General Test mode .

Brings up a menu with a number of one-tap test prompts.

This is another useful code which helps you in testing various things of your mobile phone such as sound, vibration, camera, bluetooth and many sensors.

##4636#*#*	• Display information about Phone, Battery and Usage statistics
##7780#*#*	• Resting your phone to factory state-Only deletes application data and applications
*2767*3855#	• It's a complete wiping of your mobile also it reinstalls the phones firmware
##34971539#*#*	• Shows completes information about the camera
##7594#*#*	• Changing the power button behavior- Enables direct Power Off once the code enabled
##273283*255*663282*#*#*	• For a quick backup to all your media files
##197328640#*#*	• Enabling test mode for service activity
##232339#*#* OR *#*#526#*#*	• Wireless LAN Tests

##232338#*#*	• Displays Wi-Fi Mac-address
##1472365#*#*	• Quick GPS test
##1575#*#*	• A Different type GPS test
##0283#*#*	 Packet Loopback test
##0*#*#*	• LCD display test
##0673#*#* OR *#*#0289#*#*	• Audio test
##0842#*#*	• Vibration and Backlight test
##2663#*#*	• Displays touch-screen version
##2664#*#*	• Touch-Screen test

##0588#*#*	Proximity sensor test
##3264#*#*	• Ram version
##232331#*#*	• Bluetooth test
##7262626#*#*	• Field test
##232337#*#	• Displays bluetooth device address
##8255#*#*	• For Google Talk service monitoring
##4986*2650468#*#*	• PDA, Phone, Hardware, RF Call Date firmware info
##1234#*#*	• PDA and Phone firmware info
##1111#*#*	• FTA Software version
##2222#*#*	• FTA Hardware version
##44336#*#*	• Displays Build time and change list number
##8351#*#*	• Enables voice dialing logging mode
##8350#*#*	• Disables voice dialing logging mode

Description	From Phone APP dial
Testing Menu	*#*#4636#*#*
Display Info about device	*#*#4636#*#*
Factory Restore	*#*#7780#*#*
Camera Information	*#*#34971539#*#*
Completely Wipe device, install stock firmware	*2767*3855#
Backup all media files	*#*#273283*255*663282*#*#*
Wireless LAN Test	*#*#232339#*#* OR *#*#526#*#*
Change Power button behavior	*#*#7594#*#*
Quick GPS Test	*#*#1472365#*#*

Description	From Phone APP dial
Test mode for service activity	*#*#197328640#*#*
Wi-Fi Mac Address	*#*#232338#*#*
Another GPS test	*#*#1575#*#*
Packet Loopback Test	*#*#0283#*#*,*#*#0673#*#* OR *#*#0289#*#*



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Description	From Phone APP dial
Vibration and Backlight test	*#*#0842#*#*
Check touch screen version	*#*#2663#*#*
LCD test	*#*#0*#*#*
Touch Screen test	*#*#2664#*#*
Proximity sensor test	*#*#0588#*#*
RAM version	*#*#3264#*#*
Bluetooth test	*#*#232331#*#*
Field Test	*#*#7262626#*#*
Check Bluetooth device address	*#*#232337#*#

Description	From Phone APP dial
Google Talk service monitoring	*#*#8255#*#*
PDA, Hardware, Phone and RF Call Date info	*#*#4986*2650468#*#*
PDA and Phone firmware check	*#*#1234#*#*
FTA hardware version	*#*#2222#*#*
FTA software version	*#*#1111#*#*
Displays IMEI number	*#06#
Enables voice dialing logging mode	*#*#8351#*#*
Disables voice dialing logging mode	*#*#8350#*#*
Brings up Epst menu	##778 +call
Displays Build time and change list number	*#*#44336#*#*

Description	From Phone APP dial
Remove Google account setting	*#*#7780#*#*
Reinstall the firmware	*2767*3855#
Used to enter into Service mode	*#*#197328640#*#*
Battery Status	*#0228#
Data create menu	*#273283*255*3282*#
Data usage status	*#3282*727336*#
OTA update menu	*#8736364#
RF band selection	*#2263#
Diagnostic configuration	*#9090#
USB 12C mode control	*#7284#

Description	From Phone APP dial
Display IMEI number	*#06#
Display current firmware	*#1234#
Diagnostic and general settings mode	#*#4636#*#*
Factory soft reset	*#*#7780#*#*
To display product code	*2767*4387264636#
GPS test settings	*#*#1472365#*#*
Service mode main menu	*#*#197328640#*#*
SW & HW Info	*#12580*369#
Bluetooth Address	*#232337#
ADC Reading	*#0228#

Description	From Phone APP dial
RF Band Selection	*#2263#
Ciphering Info	*#32489#
Bluetooth Test Mode	*#232331#
Diagnostic Configuration	*#9090#
WLAN Test Mode	*#232339#
Vibration motor test	*#0842#
WLAN MAC Address	*#232338#
USB I2C Mode Control	*#7284#
Audio Test Mode	*#0673#
General Test Mode	*#0*#

Description	From Phone APP dial
USB Logging Control	*#872564#
GCF Configuration	*#4238378#
Real Time Clock Test	*#0782#
Audio Loopback Control	*#0283#
LBS Test Mode	*#3214789650#
GPS Control Menu	*#1575#
RIL Dump Menu	*#745#
Data Create Menu	*#273283*255*3282*#
Proximity Sensor Test Mode	*#0588#
Camera Firmware Update	*#34971539#

Light Sensor Test Mode	*#0589#
WLAN Engineering Mode	*#526#
Debug Dump Menu	*#746#
NAND Flash S/N	*#03#
Software Version Info	*#44336#
System Dump Mode	*#9900#
Data Create SD Card	*#273283*255*663282*#
Data Usage Status	*#3282*727336*#
TSP / TSK firmware update	*#2663#
Remap Shutdown to End Call TSK	*#7594#

Description	From Phone APP dial
Camera Firmware Menu	*#7412365# and *#*#34971539#*#*
WLAN Engineering Mode	*#528#
Melody Test Mode	*#0289#
OTA Update Menu	*#8736364#
Test History	*#07#
HSDPA/HSUPA Control Menu	*#301279#
Quick Test Menu	*#7353#
View Phone Lock Status	*#7465625#
Auto Answer Selection	*#272886#
Light Sensor Test Mode	*#0589#

Secret CODES: Most Commonly used HTC Phone

Description	From Phone APP dial
Device information program	#*#4636#*#*
Field Test	*#*#7262626#*#*
HTC Function Test Program	*#*#3424#*#*
Display Software version	*#*#1111#*#*
Display hardware version	*#*#2222#*#*
Wi-Fi Mac Address	*#*#232338#*#*
Bluetooth Mac Address	*#*#232337#*#
GPS Test	*#*#1472365#*#*
GPS Test 2	*#*#1575#*#*
Bluetooth test	*#*#232331#*#*

Secret CODES: Most Commonly used HTC Phone

Description	From Phone APP dial
Display test	*#*#O*#*#*
Touch Screen version	*#*#2663#*#*
Touch Screen Test	*#*#2664#*#*
Debug UI	#*#759#*#*
Factory format	*2767*3855#



Secret CODES: Most Commonly used WiFi, GPS, and Bluetooth Test

Description	From Phone APP dial
WLAN Test	*#*#526#*#*n or *#*#528#*#*n* or #*#232339#*#*n
Displays/Shows WiFi MAC address	*#*#232338#*#*
For quick GPS test	*#*#1472365#*#*
Different type GPS test	*#*#1575#*#*
Bluetooth test	*#*#232331#*#*
Displays Bluetooth device address	*#*#232337#*#



Secret CODES: Most Commonly used Firmware version information

Description	From Phone APP dial
Let you know about FTA SW Version.	*#*#1111#*#*
FTA Hardware Version.	*#*#2222#*#*
Firmware Info PDA, Phone, H/W, RFCallDate.	*#*#4986*2650468#*#*
PDA and Phone firmware info.	*#*#1234#*#*
RF band selection	*#2263#
Diagnostic configuration.	*#9090#
USB 12C mode control.	*#7284#
USB logging control.	*#872564#
RIL dump menu.	*#745#

Secret CODES: Most Commonly used Firmware version information

Description	From Phone APP dial
Debug dump menu	*#746#
System dump mode	*#9900#
Shows Build time change list number.n- PDA, Phone, CSC, Build Time, ChangeList number	*#*#44336#*#*
NAND flashes serial number	*#03#
GCF mode status	*#3214789#tn
RICHARD Secret Codes	

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Secret CODES: Most Commonly used Factory tests

Description	From Phone APP dial
Packet Loopback test	*#*#0283#*#*
LCD test	*#*#O*#*#*
Audio/Melody test	*#*#0673#*#*n*#*#0289#*#*n
Vibration test and BackLight test Device test	*#*#0842#*#*
Displays Touch screen version	*#*#2663#*#*
Touch-Screen test	*#*#2664#*#*tn
Proximity sensor test	*#*#0588#*#*tn
RAM version	*#*#3264#*#*
Real time clock test	*#0782#
Light sensor test	*#0589#
Quick test menu	*#7353#

Description	From Phone APP dial
Galaxy S3 service menu	*#0*#
Motorola DROID hidden service menu.n- The default SPC password is six zeroes(000000)	##7764726
LG Optimus 2x hidden service menu.n- When prompted for a code enter six zeroes(000000)	1809#*990#
Lg Optimus 3D hidden service menu.n- When prompted for a code enter six zeroes(000000)	3845#*920#

