

# Install LineageOS on gts4lvwifi

[keyboard\\_arrow\\_left Back to the overview](#)

*warning*

**Warning:** These instructions only work if you follow every section and step precisely.

Do **not** continue after something fails!

## Basic requirements

1. Read through the instructions at least once before actually following them, so as to avoid any problems due to any missed steps!
2. Make sure your computer has `adb` and `fastboot`. Setup instructions can be found [here](#).
3. Enable [USB debugging](#) on your device.
4. Make sure that your model is actually listed in the “Supported models” section [here](#) (exact match required!)
5. Boot your device with the stock OS at least once and check every functionality.
6. LineageOS is provided as-is with no warranty. While we attempt to verify [everything works](#) you are installing this at your own risk!

*warning*

**Warning:** Before following these instructions please ensure that the device is currently using **Android 11** firmware.

If the vendor provided multiple updates for that version, e.g. security updates, make sure you are on the latest!

If your current installation is newer or older than **Android 11**, please upgrade or downgrade to the required version before proceeding (guides can be found on the internet!).

## Pre-Install Instructions

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**Warning:** The following instructions will unlock the bootloader and wipe all userdata on the device.

1. Connect the device to a Wi-Fi network.
2. Enable Developer Options by pressing the “Build Number” option in the “Settings” app within the “About” menu
  - From within the Developer options menu, enable OEM unlock.
3. Download [this](#) VBMeta image `.tar` file.
4. Power off the device, and boot it into download mode:
  - With the device powered off, plug in the device while holding `Volume up + Volume Down + Power`.
  - Now, click the button that the onscreen instructions correlate to “Continue” and/or “Unlock Bootloader”.
  - Device will restart, repeat steps 1 and 2 to enable the Developer Options menu again.
  - Verify that “OEM Unlock” is still enabled and continue to step 5
5. Download and install the necessary drivers.

- Download the newest Samsung drivers from [here](#). You will need to create a Samsung account and login to download them.
  - Install `SAMSUNG_USB_Driver_for_Mobile_Phones.exe`.
6. Download [this](#) version of Odin.
  7. Extract “Odin\_3.13.1.zip”.
  8. Run `Odin3 v3.13.1` found in the newly extracted “Odin\_3.13.1” folder.
  9. Check the box labeled next to the button labeled “AP”, and then click the “AP” button.
    - In the menu that pops up, select the newly downloaded custom VBMeta .tar file.
  10. Check in the top left of the Odin window that you see a valid device, it will show up as something like `COM0`.

*check*

**Tip:** The `COM` port, or the number succeeding `COM`, may be any valid number.

11. Click “Start”. A blue transfer bar will appear on the device showing the recovery image being flashed.
12. Your device will reboot, you may now unplug the USB cable from your device.
13. The device will demand you format userdata, please follow the onscreen instructions to do so.
14. Run through Android Setup skipping everything you can, then connect the device to a Wi-Fi network.
15. Re-enable Development settings by clicking the “Build Number” option 10 times, in the “Settings” app within the “About” menu, and verify that “OEM Unlock” is still enabled in the “Developer options” menu.

## Important Information

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**Note:** The following instructions **require** a machine running Windows 10 build 17063 or newer.

Samsung devices come with a unique boot mode called “Download mode”, which is very similar to “Fastboot mode” on some devices with unlocked bootloaders. Odin is a Samsung-made tool for interfacing with Download mode on Samsung devices. The preferred method of installing a custom recovery is through Download Mode – rooting the stock firmware is neither necessary nor required.

## Installing a custom recovery using `odin`

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**Note:** If this device’s install instructions already had you download Odin/Enable OEM Unlocking earlier in the installation process, you can skip the steps for enabling OEM Unlock, as well as for downloading and extracting the drivers and Odin.

1. Enable Developer Options by pressing the “Build Number” option 10 times, in the “Settings” app within the “About” menu
  - From within the Developer options menu, enable OEM unlock.

2. Download [Lineage Recovery](#). Simply download the latest recovery file, named something like `lineage-20.0-20230101-recovery-gts4lvwifi.img`
3. Rename the downloaded image to “recovery.img”, open a Command Prompt in the folder where the file was downloaded, and TAR the file by running `tar -cvf recovery.tar recovery.img`.

*check*

**Tip:** Make sure to not accidentally name the file `recovery.img.img` when file name extensions are hidden.

*check*

**Tip:** You can open a command prompt in any folder by right-clicking on empty space while holding Shift and selecting “Open Command Prompt here” or “Open PowerShell window here” from the context menu.

*warning*

**Important:** Other recoveries may not work for installation or updates. We strongly recommend to use the one linked above!

4. Power off the device, and boot it into download mode:
  - o With the device powered off, plug in the device while holding `Volume up + Volume Down + Power`.
  - o Now, click the button that the onscreen instructions correlate to “Continue”, and insert the USB cable into the device.
5. Download and install the necessary drivers.
  - o Download the newest Samsung drivers from [here](#). You will need to create a Samsung account and login to download them.
  - o Install `SAMSUNG_USB_Driver_for_Mobile_Phones.exe`.
6. Download [this](#) version of Odin.
7. Extract “Odin\_3.13.1.zip”.
8. Run `Odin3 v3.13.1` found in the newly extracted “Odin\_3.13.1” folder.
9. Check in the top left of the Odin window that you see a valid device, it will show up as something like `COM0`.

*check*

**Tip:** The `COM` port, or the number succeeding `COM`, may be any valid number.

10. In the left side of the Odin window, you will see an “Options” tab, click it, and then un-check the “Auto Reboot” option.
11. Check the box labeled next to the button labeled “AP”, and then click the “AP” button.
  - o In the menu that pops up, select the newly downloaded custom recovery `.tar` or `.tar.md5`.

*check*

**Tip:** The filename may vary depending on your device, and the version of your custom recovery.

12. Click “Start”. A blue transfer bar will appear on the device showing the recovery image being flashed.

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**Note:** The device will continue to display `Downloading...` Do not turn off target!! even after the process is complete. When the status message in the top left of the devices’s display reports that the process is complete, you may proceed.

13. Unplug the USB cable from your device.
14. Manually reboot into recovery, this may require pulling the device’s battery out and putting it back in, or if you have a non-removable battery, press the Volume Down + Power buttons for 8~10 seconds until the screen turns black & release the buttons *immediately* when it does, then boot to recovery:
  - o With the device powered off, hold `Volume Up + Power`.

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**Note:** Be sure to reboot into recovery immediately after installing the custom recovery. If you don’t the custom recovery will be overwritten on boot.

## Installing LineageOS from recovery

1. Download the [LineageOS installation package](#) that you would like to install or [build](#) the package yourself.
  - o (*Optionally*): If you want to install an application package add-on such as [Google Apps](#) (use the `arm64` architecture), please read and follow the instructions on [Google Apps page](#)
2. If you are not in recovery, reboot into recovery:
  - o With the device powered off, hold `Volume Up + Power`.
3. Now tap **Factory Reset**, then **Format data / factory reset** and continue with the formatting process. This will remove encryption and delete all files stored in the internal storage, as well as format your cache partition (if you have one).
4. Return to the main menu.
5. Sideload the LineageOS `.zip` package:
  - o On the device, select “Apply Update”, then “Apply from ADB” to begin sideload.
  - o On the host machine, sideload the package using: `adb sideload filename.zip`.

*check*

**Tip:** Normally, adb will report `Total xfer: 1.00x`, but in some cases, even if the process succeeds the output will stop at 47% and report `adb: failed to read command: Success`. In some cases it will report `adb: failed to read command: No error` or `adb: failed to read command: Undefined error: 0` which is also fine.

6. (*Optionally*): If you want to install any add-ons, repeat the sideload steps above for those packages in sequence.

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**Note:** Add-ons aren't signed with LineageOS's official key, and therefore when they are sideloaded, Lineage Recovery will present a screen that says `Signature verification failed, this is expected, please click Continue`.

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**Note:** If you want the Google Apps add-on on your device, you must follow this step **before** booting into LineageOS for the first time!

7. Once you have installed everything successfully, click the back arrow in the top left of the screen, then "Reboot system now".

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**Note:** The first boot usually takes no longer than 15 minutes, depending on the device. If it takes longer, you may have missed a step, otherwise feel free to [get assistance](#).