Install LineageOS on sargo

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> ⚠️ **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.

> ⚠️ **WARNING:** Before following these instructions please ensure that the device is currently using **Android 12.1.0** 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 12.1.0**, please up- or downgrade to the required version before proceeding (guides can be found on the internet!).

Unlocking the bootloader

> ℹ️ **NOTE:** The steps below only need to be run once per device.

> ⚠️ **WARNING:** Unlocking the bootloader will erase all data on your device! Before proceeding, ensure the data you would like to retain is backed up to your PC and/or your Google account, or equivalent. Please note that OEM backup solutions like Samsung and Motorola backup may not be accessible from LineageOS once installed.

1. Enable OEM unlock in the Developer options under device Settings, if present.

2. Connect the device to your PC via USB.

3. On the computer, open a command prompt (on Windows) or terminal (on Linux or macOS) window, and type:

```
adb reboot bootloader
```

You can also boot into fastboot mode via a key combination:

- With the device powered off, hold `Volume Down` + `Power`.

4. Once the device is in fastboot mode, verify your PC finds it by typing:

```
fastboot devices
```

If you don't get any output or an error:

- on Windows: make sure the device appears in the device manager without a triangle. Try other drivers until the command above works!
- on Linux or macOS: If you see `no permissions fastboot` try running `fastboot` as root. When the output is empty, check your USB cable and port!

5. Now type the following command to unlock the bootloader:

```
fastboot flashing unlock
```

> ℹ️ **NOTE:** At this point the device may display on-screen prompts which will require interaction to continue the process of unlocking the bootloader. Please take whatever actions the device asks you to to proceed.

6. If the device doesn't automatically reboot, reboot it. It should now be unlocked.

Temporarily booting a custom recovery using `fastboot`

1. Download [Lineage Recovery](#). Simply download the latest recovery file, named something like `lineage-19.1-20220520-recovery-sargo.img`.
2. Connect your device to your PC via USB.
3. On the computer, open a command prompt (on Windows) or terminal (on Linux or macOS) window, and type:

```
adb reboot bootloader
```

   You can also boot into fastboot mode via a key combination:
   - With the device powered off, hold `Volume Down` + `Power`.
4. Once the device is in fastboot mode, verify your PC finds it by typing:

```
fastboot devices
```

   If you don't get any output or an error:
   - on Windows: make sure the device appears in the device manager without a triangle. Try other drivers until the command above works!
   - on Linux or macOS: If you see `no permissions fastboot` try running `fastboot` as root. When the output is empty, check your USB cable (preferably use a USB Type-A 2.0 one or a USB hub) and port!

   > ✓ **TIP:** Some devices have buggy USB support while in bootloader mode, if you see `fastboot` hanging with no output when using commands such as `fastboot getvar ...`, `fastboot boot ...`, `fastboot flash ...` you may want to try a different USB port (preferably a USB Type-A 2.0 one) or a USB hub.

5. Temporarily flash a recovery on your device by typing (replace `<recovery_filename>` with the actual filename!):

```
fastboot flash boot <recovery_filename>.img
```

   > ⓘ **NOTE:** Outdated fastboot releases dropped legacy A/B support, so it might attempt to flash to `boot__a` / `boot__b` rather than `boot_a` / `boot_b` if you try to flash `boot`. In this case, you must update `fastboot` to a release newer than or equal to `31.0.2`. Alternatively, you can manually specify which slot to flash to based on what slot fastboot failed to flash to. For example, if fastboot fails to flash to `boot__a`, you must flash to `boot_a`.

6. With the device powered off, hold `Volume Down` + `Power`. Then use the menu to select *Recovery Mode*.

Installing LineageOS from recovery

1. Download the [LineageOS installation package](#) that you would like to install or [build](#) the package yourself.
   - *(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:
   - With the device powered off, hold `Volume Down` + `Power`. Then use the menu to select *Recovery Mode*.
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:
   - On the device, select "Apply Update", then "Apply from ADB" to begin sideload.
   - On the host machine, sideload the package using: `adb sideload filename.zip`.

   > ✓ **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, click `Advanced`, then `Reboot to Recovery`, then when your device reboots, click `Apply Update`, then `Apply from ADB`, then `adb sideload filename.zip` those packages in sequence.

   > **NOTE:** Add-ons aren't signed with LineageOS's official key, and therefore when they are sideloaded, Lineage Recovery will present a screen

ⓘ **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".

ⓘ **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

Get assistance

After you've double checked that you followed the steps precisely, didn't skip any and still have questions or got stuck, feel free to ask on our subreddit or in #LineageOS on Libera.Chat.