Big shout-out to Kyle (kr250) for putting this guide together.

Getting Started

Refer to the getting started guide for prerequisites first, in short:

Download Simos Tools: https://play.google.com/store/apps/details?id=com.app.simostools
To get beta versions, request to sign up as a Beta Tester in the Google Play app.

Need a compatible OBD2 dongle.

Main Screen

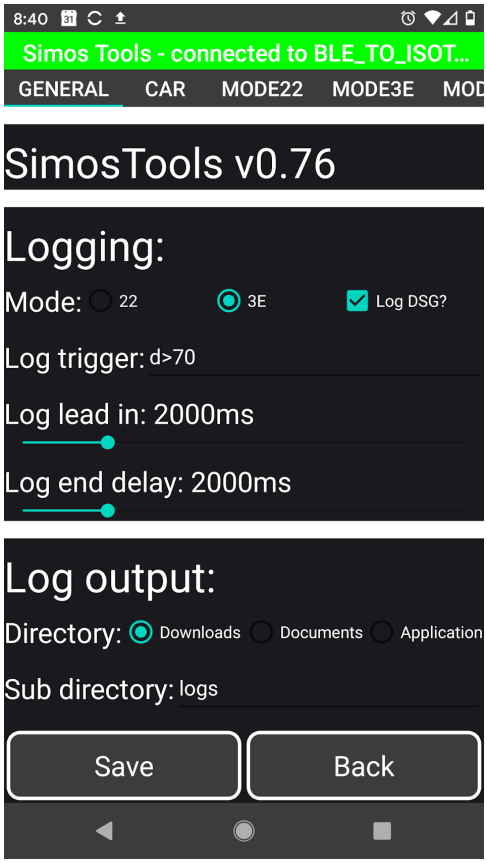
Once you open SimosTools it should look like this:

Red ribbon means not connected. Once it connects to your dongle it will turn green:

Let's head into settings first and get everything set up.

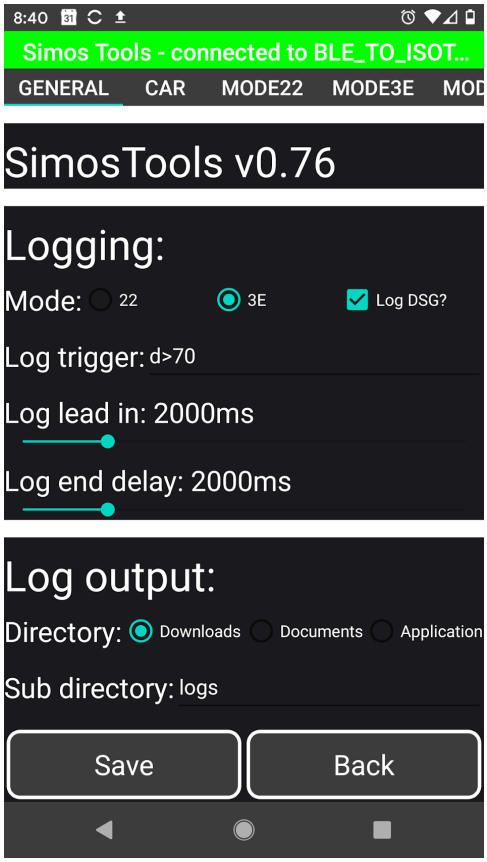
SETTINGS

Tapping on Settings will bring up the following tab:



Logging modes:

There are several logging modes, you can select Mode22, or high speed logging Mode3E that enables additional logging parameters (PID's). You can also enable DSG logging by selecting the checkbox for LogDSG.



Log trigger

Logging can be triggered by single or multiple variables in the “assign to” field in the desired log PID list settings (up top where it says GENERAL, CAR, MODE22, etc…) Select the logging mode you will be using and it will display the list of PIDs from your CSV. Just scroll down to find the one you want. Where it says “Assign To:” type in a letter. In the above example “d” has been assigned to Pedal Pos, so that anything over 70% pedal will trigger a log. Once pedal falls below 70% the logger will stop. You can set any trigger you may desire from your logging list (i.e. you want to only log when boost is >20, then find boost and set a variable to it (we’ll pick “a” as an example). Now go back to the General tab and change Log trigger to a>20. Boom, Done. Make sure you don’t have 2 PIDs with the same variable. Cruise control stalk can also be added for manually triggering and is one of the most common setups. c>1 will set cruise control on as your trigger. You can tell when your car is logging because the green bar up top will turn blue and state “Logging”. Log Lead in and end delay are exactly as you’d assume they are, how quickly it starts and stops logging.

Log output

This is where your device saves your logs. Make sure permissions are enabled for the app to access your phone or tablets storage device so that you can save the log files into the appropriate folder.

Import PID CSV

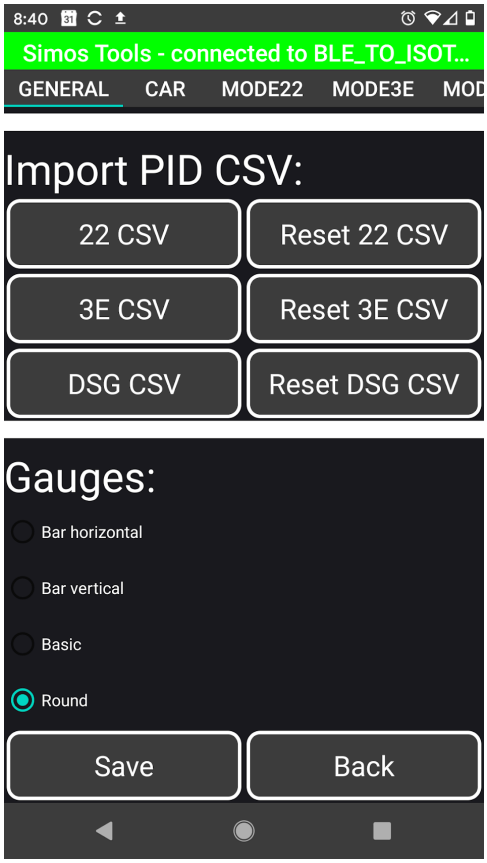
There are several ways you can configure how you view the real time logging function, either by configuring parameters within each logging mode via the GUI, or by editing/importing a CSV file containing all of the desired settings. (Reference the PID Lists)

From either method, you can configure the units, equation, format, max/min, warning parameters, smoothing, and assign them to the available tabs (Default, Airflow, Fuel, etc). This can be done with or without being connected to the OBD dongle.

If your bin has been patched with High Speed Logging (HSL) you can import a HSL.CSV in this section. SimosTools comes with a mode22 PID list pre-installed so you can start logging right out of the box.

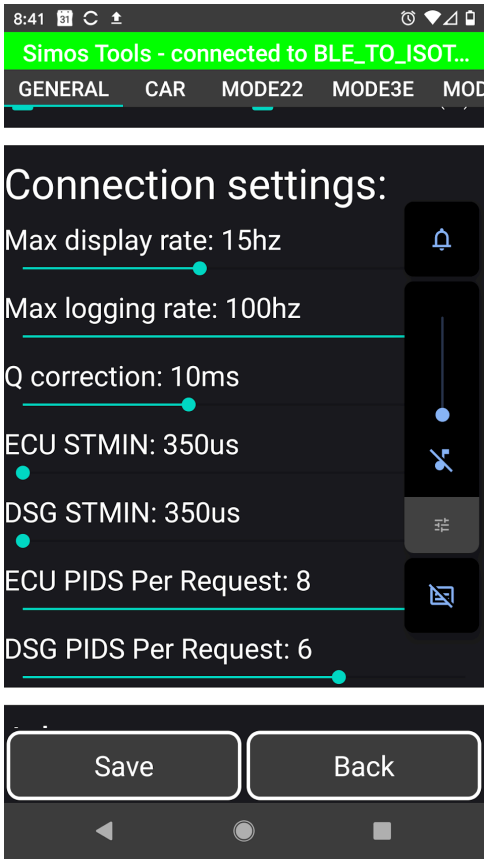
Gauges

Gauge layout for real time viewing is configurable, round, bar, or basic. These will set global settings, but can be overridden within the individual parameters by inserting either “|BAR_V” or “|Round”



Connection Settings (for Advanced users)

Some older devices might need some adjusting to get log sampling rates up so the logs don't look jiggy/jaggy. It is unlikely you need to touch these settings for any newish device (i.e. FireTab HD8plus)



Options

Here you can set all of the color options for Simos Tools, and gauges. Go wild!

Car Settings

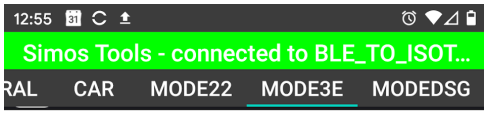
Enter car details for calculating speed, HP and torque. You can also set units for imperial or metric.

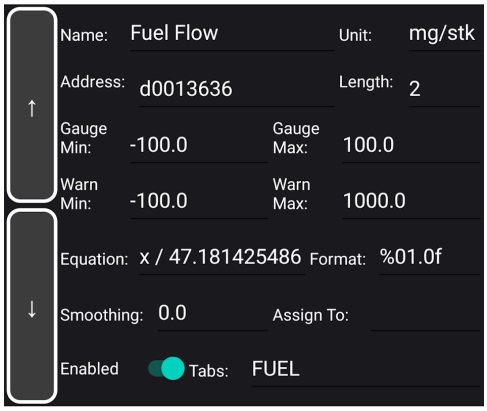
MODE22/MODE3E/MODEDSG

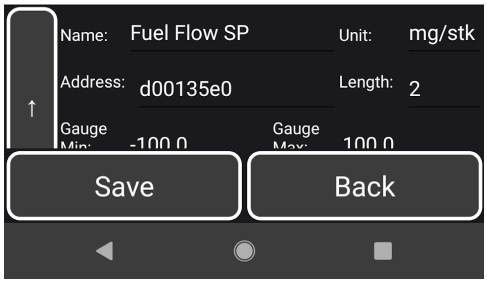
You can configure the PID’s within each of the logging modes listed:

- MODE22
- MODE3E
- MODEDSG

Each mode is customizable, and can be added or removed from the live viewing tabs. Assignment allows options for triggering the logs. Set your min/max levels, and min/max warning lights here as well.





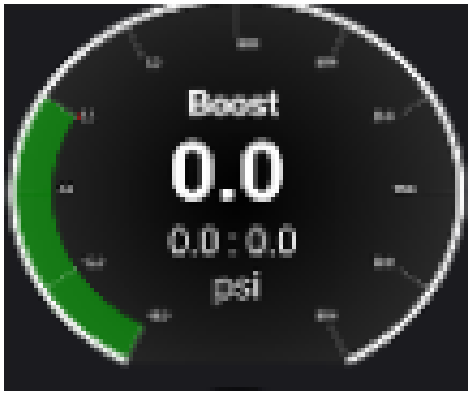


LOGGING

Let's go back to the main tab and select LOGGING. You should see gauges for all your PIDs.

Example of configurable live dashboard (car is off).

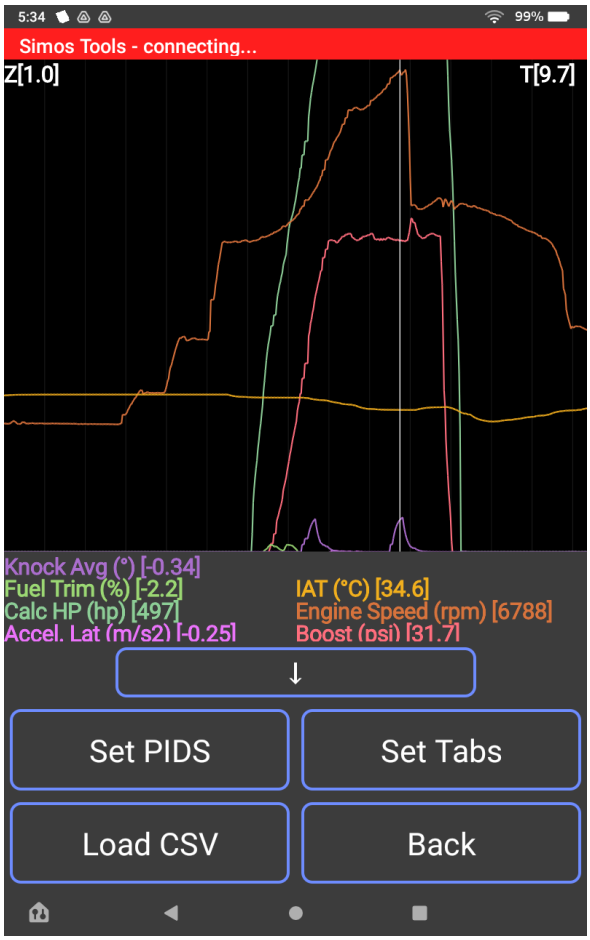
As you drive around your car will show live data for all your PIDs. Depending on how your CSV is setup, along the top will be multiple tabs with relevant PIDs. Tap on any one of them to see gauges for each section. Within each gauge will be 3 values.



The big number is the current value. Below is will be Min (left) and Max (right) recorded since SimosTools started receiving data. If you want to reset any gauge simply hold your finger on it and after a few seconds it will reset.

Log Viewer

The log viewer will allow you to review logs without needing a computer.



It's pretty self explanatory. Load CSV to load the log. Set PIDS to select the data you want to view on the chart. Set Tabs will select just the data from the tabs in your log list.

Flashing

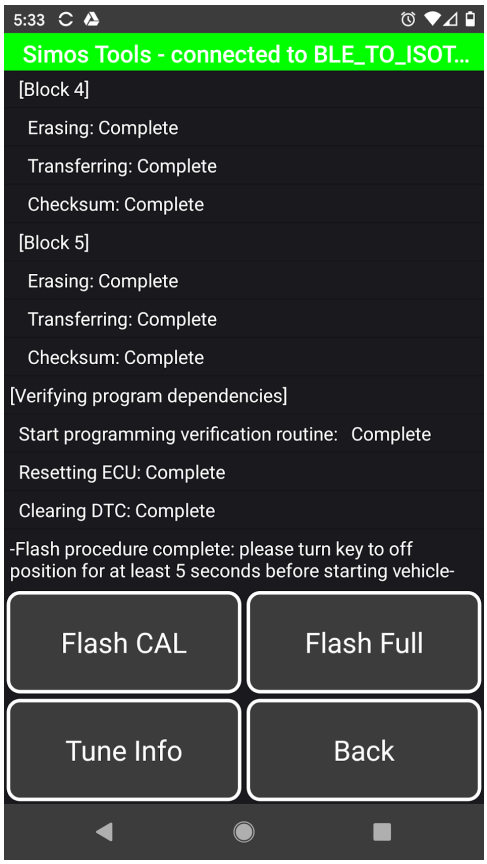
Flash Full

The first flash will need to be a full BIN flash and may take up to 7 minutes. Make sure the battery is on a charger when doing the first flash.

Select unlock on first flash.

Flash CAL

Future flashes can be done with your full BIN, but just doing the CAL flash. As an example, say you made some changes to boost and timing. You don't need to do a full flash of your bin, just do a CAL flash. This takes less than a minute and will overwrite just Block 5 of the ECU.



If you patch your bin for ANY REASON (MPI, SWG, etc…) you need to do a full flash.

Tune Info

Display the tune file name to verify which file is currently loaded.

Utilities

DTC

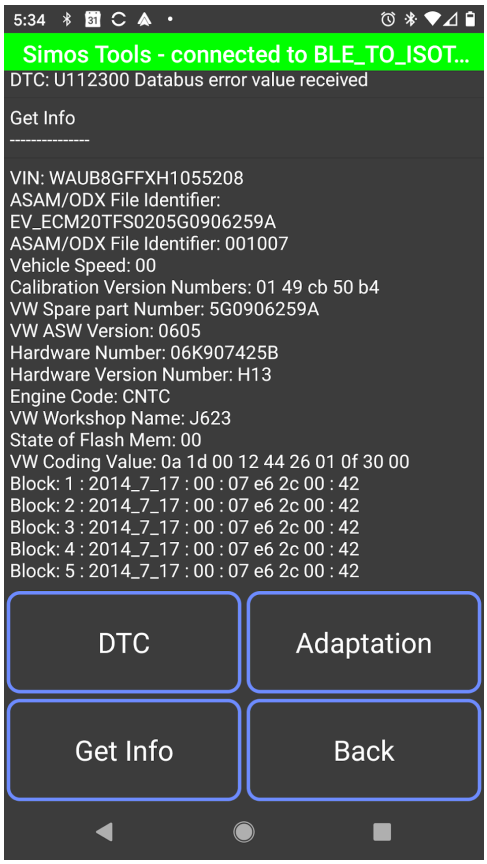
Gather DTC info (AKA, read codes).

Adaptation

More info needed.

Get Info

Short press: ECU/Engine info



Long press: DSG info