Unlocking ECU with Simos Tools

1 Set up dongle & download Simos Tools

a) go to google drive Simos tools google drive

  b) download and follow the "How to update dongle firmware guide"

    (Link to drivers SL1 driver link)

  c) download Simos Tools from play store onto your phone or tablet

2 Connect dongle to obd port

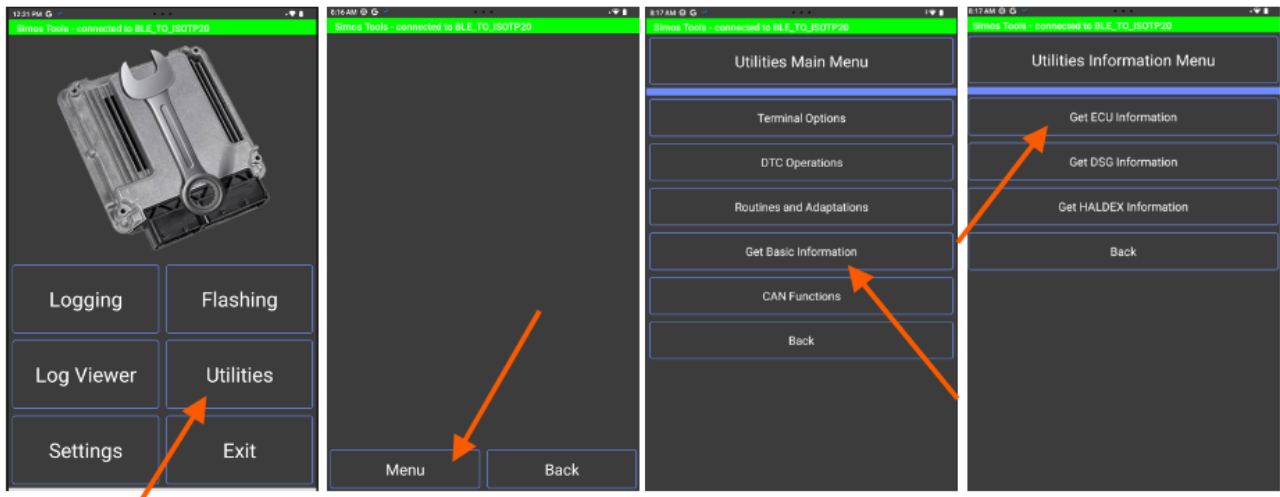a) ensure battery charger is hooked up
   to the vehicle and flashing device has
   full charge or is connected to a charger

b) set car to on but engine not running

c) start Simos Tools app on your device
   (wait for banner to turn green
   indicating you are connected)
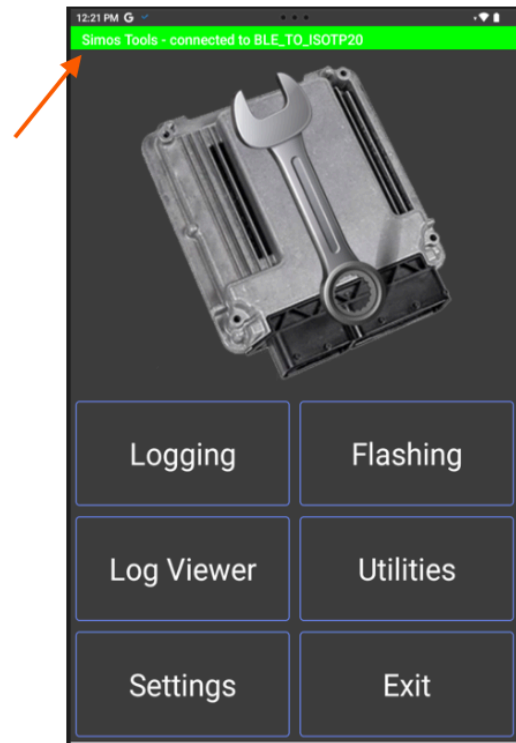
3 Check ecu file

a) click [Utilities]

b) click [Menu]

c) click [Get Basic Information]

d) click [Get ECU Information]

4 Verify you have correct bin file for ecu (should match vw spare part # on "Get ECU Info" screen/log

a) once you have verified you have
correct bin file for your ECU download
it to your phone/device
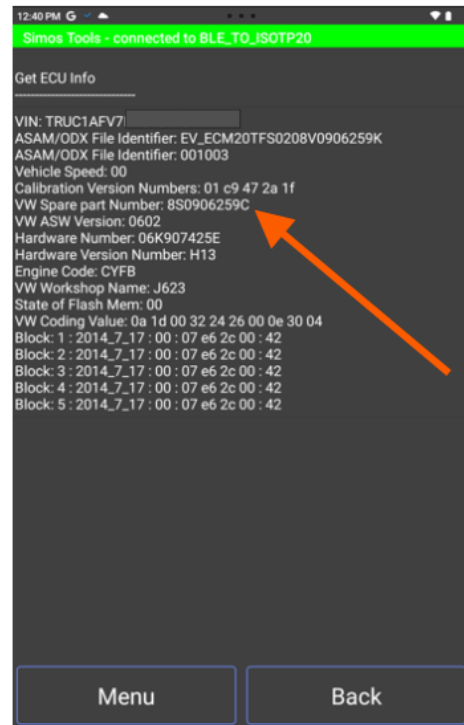
5 Unlock ECU

a) click [Back]

b) click [Flashing]

c) click [Unlock/Lock]

d) message pops up "would you like to proceed…" click [Unlock}

e) warning pops up, click [YES]

f) folder opens on screen, navigate to where you saved your bin file and click on it
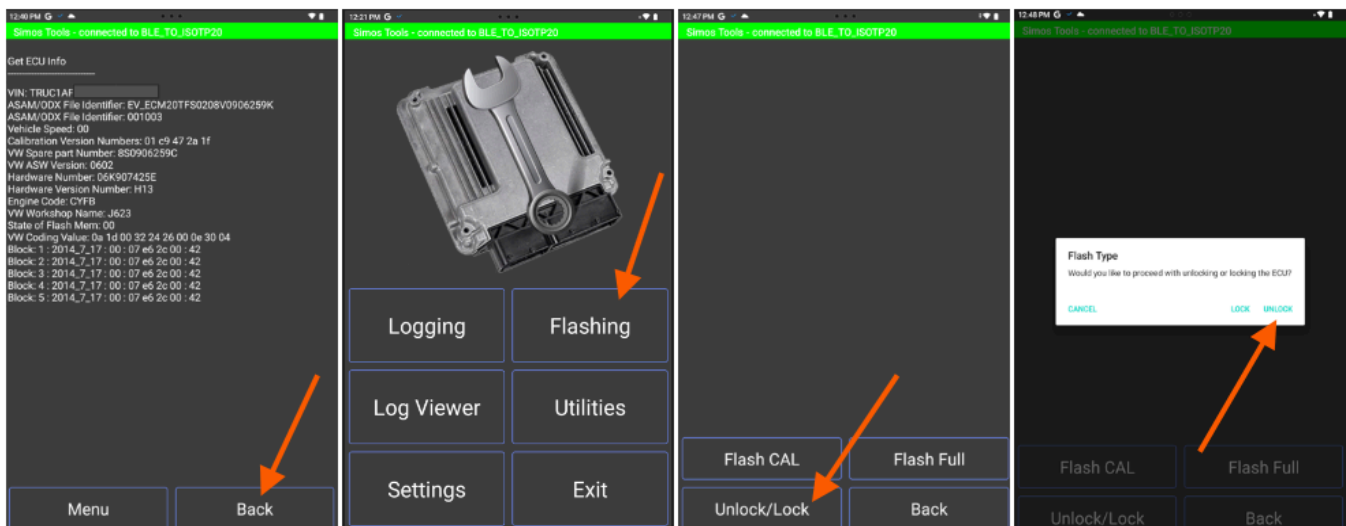

CAUTION — **Ensure Car and Device are Connected to Charger Loss of Power Could Brick Your ECU**
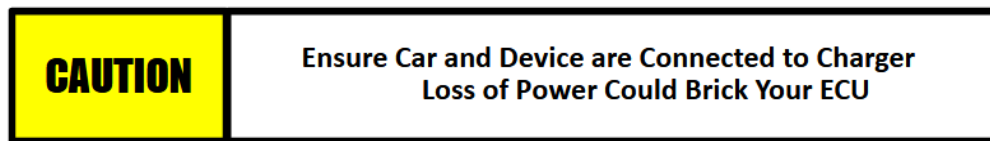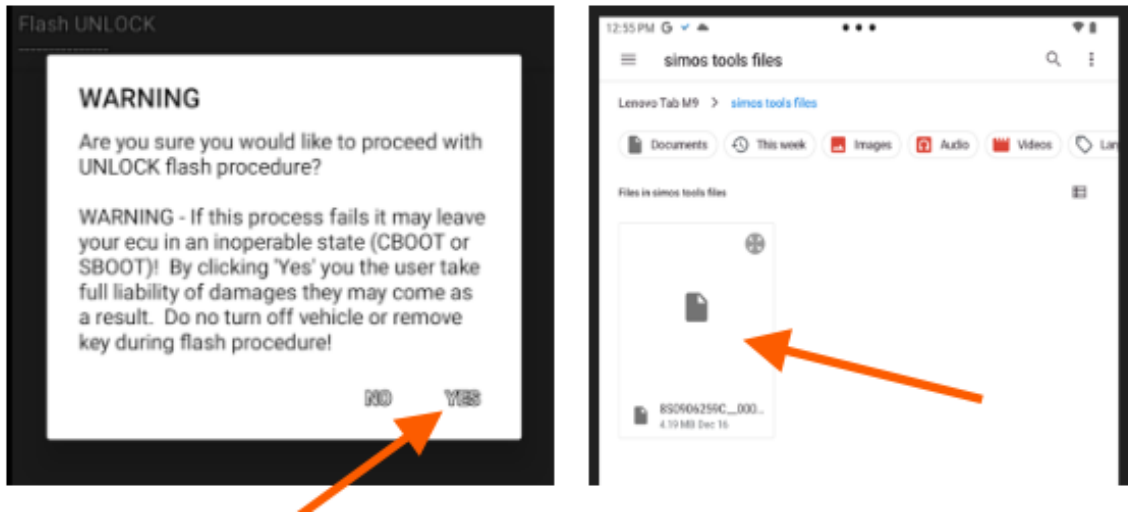
g) message pops up "would you like to unlock flash xxxxxx" verify bin id and click [YES]

6 Wait as Simos Tools unlocks/flashes the ECU. (this initial flash can take up to 15 minutes)

a) wait patiently and don't touch anything ignore all the flashing lights and beeps from your dash

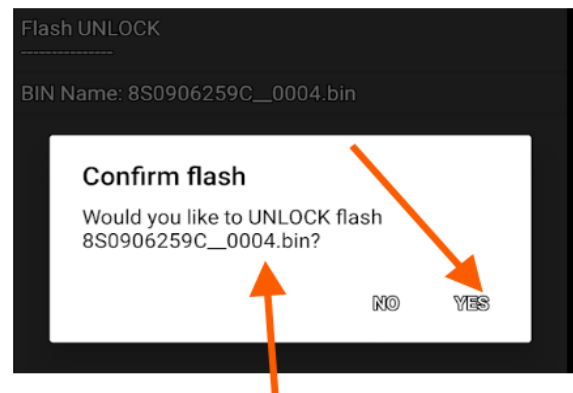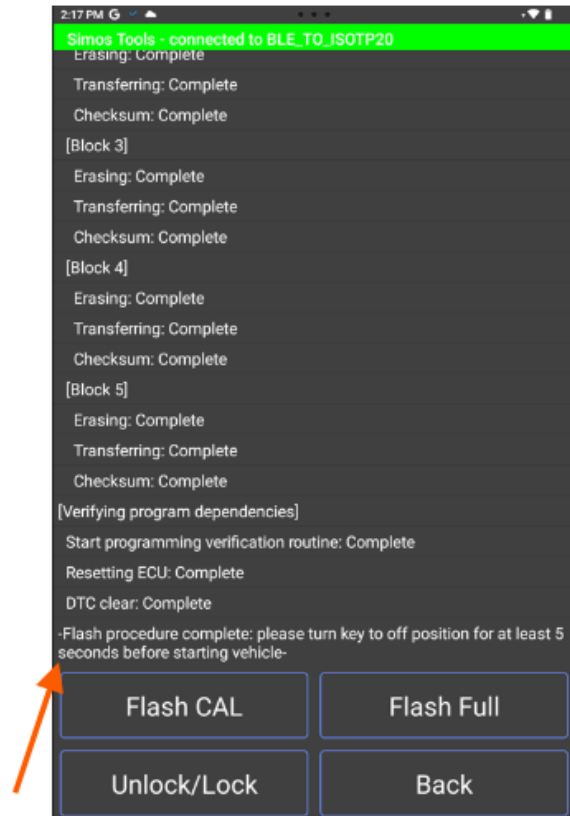*(for fun you can watch the progress bar on your device and pretend you are waiting for your TRS-80 phone modem to connect at the lighting speed of 150 baud)*

b) when complete you should see a message to cycle ignition off

c) cycle ignition off for at least 5 seconds then start your vehicle

Congratulations you have successfully unlocked/flashed the ECU and are now ready to flash your first rod throwing tune.

NOTE: **If the flash failed and you did not receive the message to cycle your ignition or the car will not start after the flash, some of the below steps may help:**

- **Re-attempt unlock procedure**
- **Settings -> Adapter -> ECU STMIN -> increase to 500-1000us value or higher, if required, then re-attempt unlock procedure again**
- **If you need to flash back to 100% stock tune configuration, select "Unlock/Lock -> Lock" and pick a stock bin file to flash**
- **Capture debug logs and post to Simos Tools Users group. To enable debug logging, go to Settings -> Debug Mode and select all 4 checkboxes (Warnings, Exceptions, Debug, Communication), then proceed to Unlock/flash the ECU again. Once the process fails or times out, go back to Settings and click "save debug log" to save the log file.**