

MAGNUSON

SUPERCHARGERS



VF Tuner

Flash Tool Instructions

NOTES

***It is the responsibility of the customers/installer to make sure the vehicle is on the latest stock calibration from Toyota.**

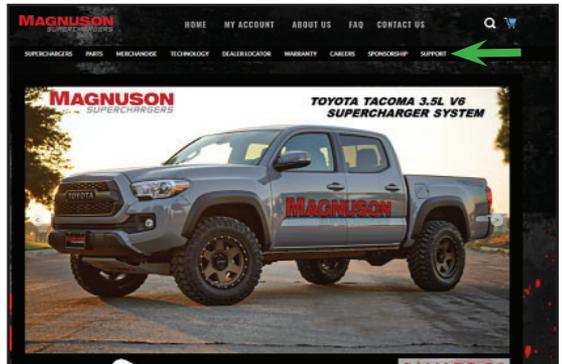
A laptop computer running Windows 7, 8 or 10 with an Internet connection is required.

Go to MagnusonSuperchargers.com

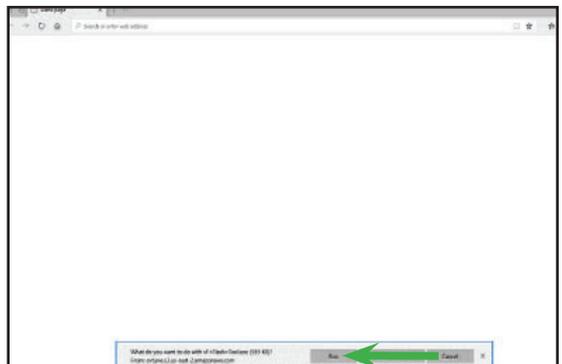
1. Identify the VF Tuner flash tool that you have. The two types this manual deals with are shown here. Each tool has its own software link that will be described in the next step.



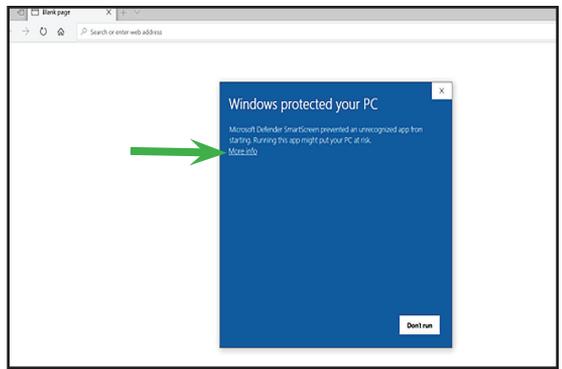
2. Go to <https://www.magnusonsuperchargers.com/> and click on the "Support" tab at the top of the page. Please download the correct link for the tool you have in the kit.



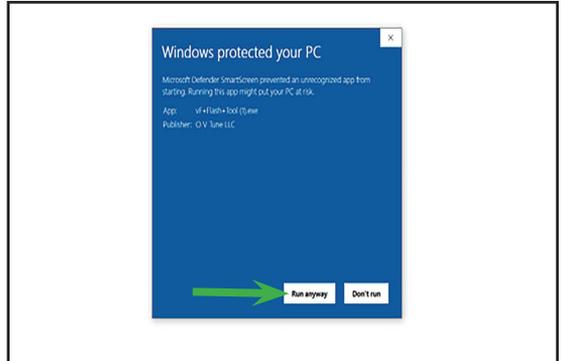
3. Once you have downloaded the correct version of software for the device you have you will Click on "Run".



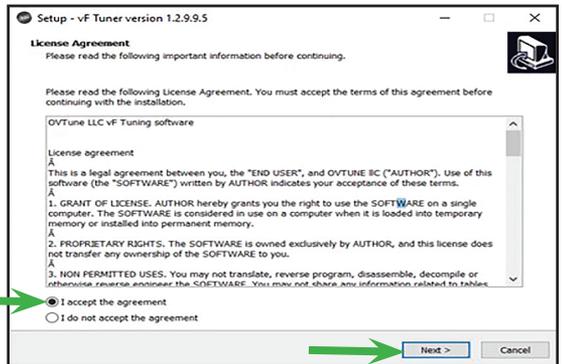
4. If you get a “Windows protected your PC” message, click on more info.



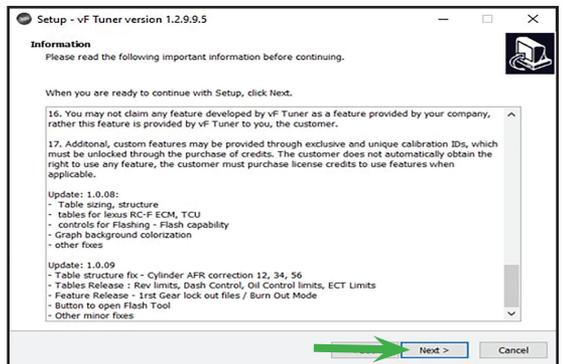
5. Click on “Run Anyway”.



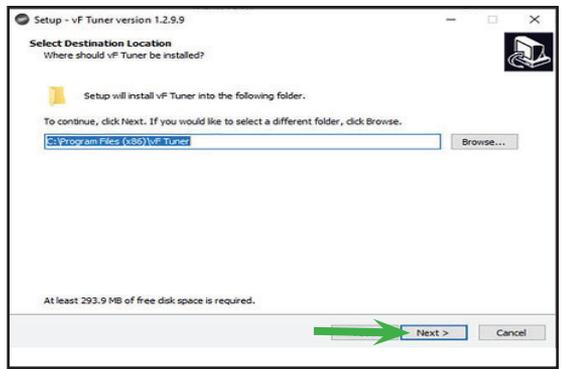
6. Select “I accept the agreement” then click “Next”.



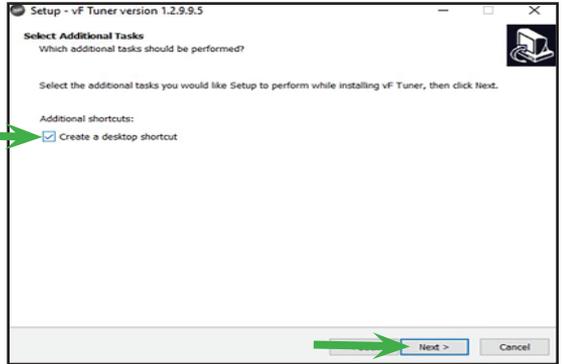
7. Click on “Next”.



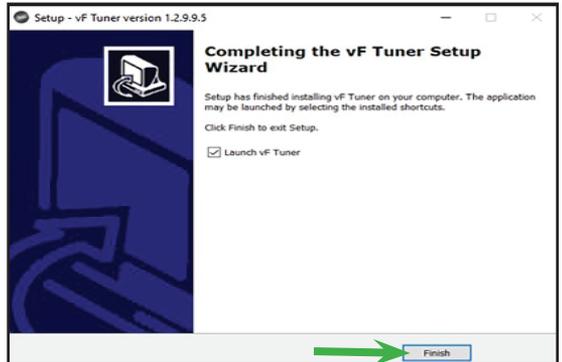
8. Click on "Next".



9. Select "Create a desktop shortcut". Click on "Next".



10. Click on "Finish".



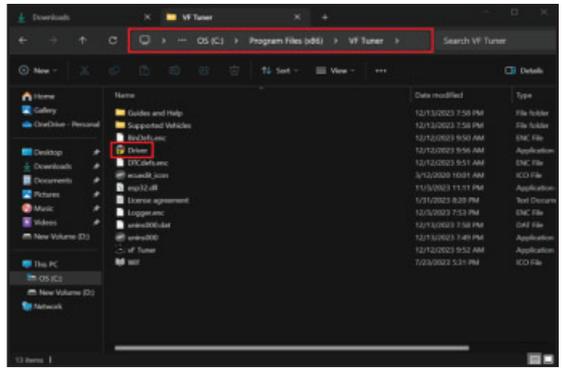
11. The following instructions starting on the next page will have specific steps for the device you have. Before each step it will indicate if the step is for the "WiFlash device" or "Legacy Flash device". Steps without any device identifier need to be followed for either device.

Driver install:

WiFlash device ONLY

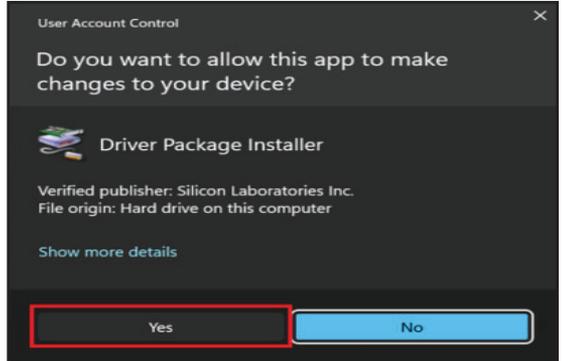
12. Find the installation folder of your VF Tuner. Look for the “Driver” installer and double click on it to run the driver installer.

NOTE: Microsoft may delete the driver and you will need to go to our website and download the wi-flash drivers.



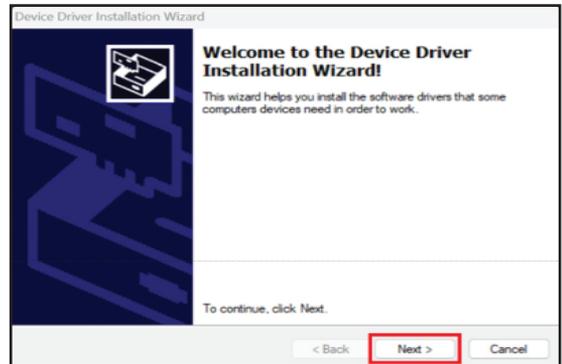
WiFlash device ONLY

13. Click yes.



WiFlash device ONLY

14. Click “Next” and follow the steps.



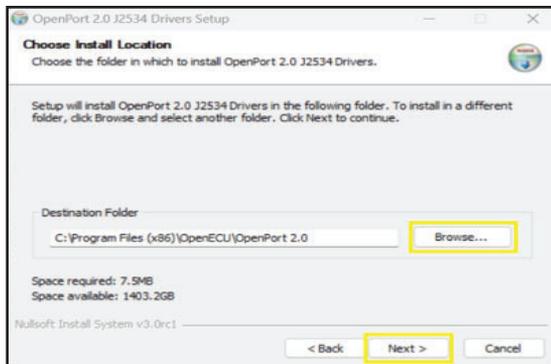
WiFlash device ONLY

15. Click “Finish”



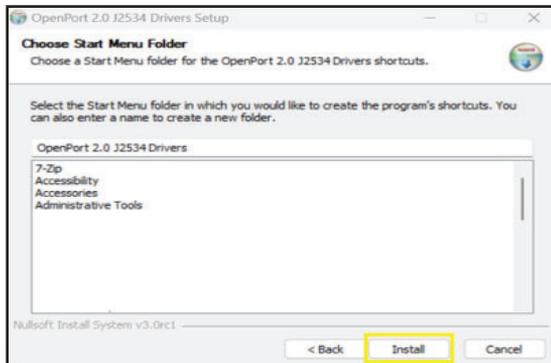
Legacy flash device ONLY

20. Click "Next".



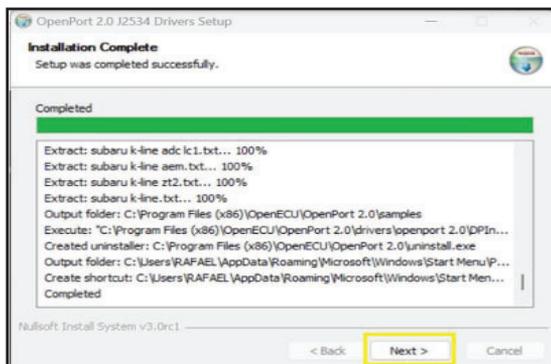
Legacy flash device ONLY

21. Click "install".



Legacy flash device ONLY

22. Let the install finish and then click "Next".



Legacy flash device ONLY

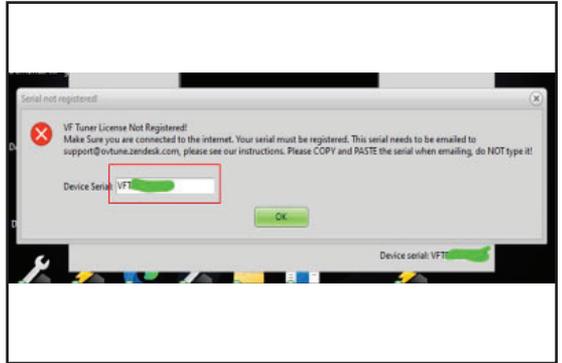
23. Click "Finish".



24. Open the software by double clicking on the software shortcut icon “vF Tuner” on your computer desktop.



25. An error window will appear. Please select the code and right click copy. This code will be pasted into a form.

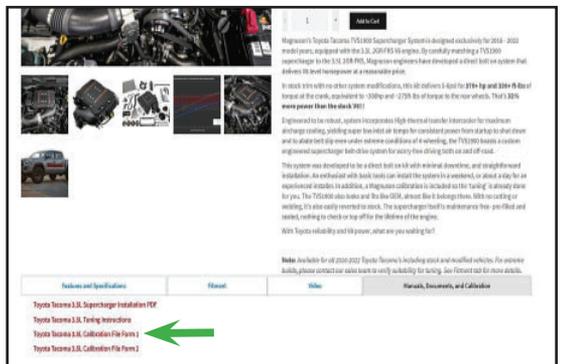


***It is the responsibility of the customers/installer to make sure the vehicle is on the latest stock calibration from Toyota.**

A laptop computer running Windows 7, 8 or 10 with an Internet connection is required.

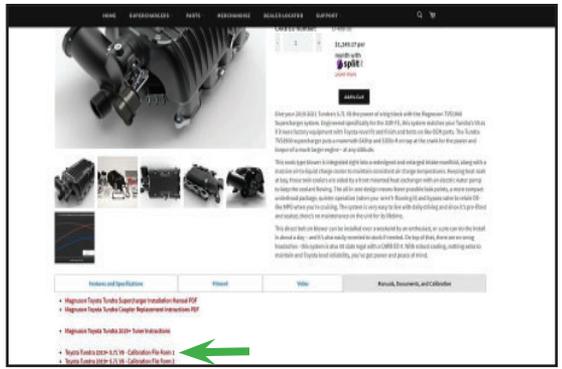
Go to MagnusonSuperchargers.com

26a. **For Tacoma:**
 Under Superchargers
 → Toyota → Tacoma
 → Toyota Tacoma
 2GR-FKS 3.5L V6
 Superchargers System
 → Manuals, Documents
 and Calibration. Click on
**“Toyota Tacoma 3.5L
 Calibration File Form 1”**.



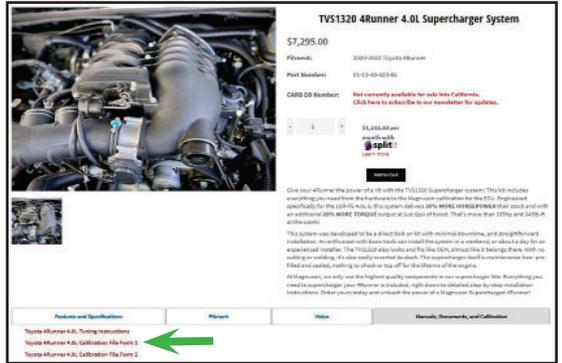
26b. **For Tundra:**

Under Superchargers
→ Toyota → Tundra →
2019 Toyota Tundra
3UR-FE 5.7L V8
Superchargers System
→ Manuals, Documents
and Calibration. Click on
“**Toyota Tundra 2019+
Calibration File Form 1**”.



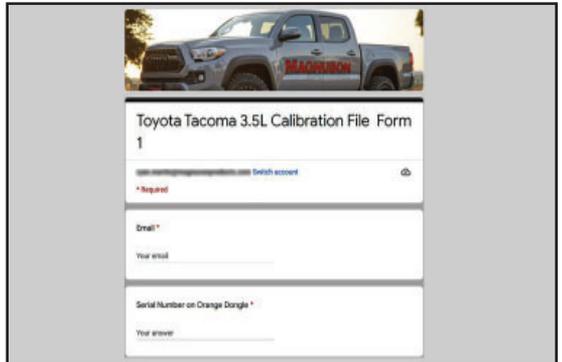
26c. **For 4Runner:**

Under Superchargers
→ Toyota → 4Runner →
TVS1320 4Runner 4.0L
Supercharger System
→ Manuals, Documents
and Calibration. Click on
“**Toyota 4Runner 4.0L
Calibration File Form 1**”.



27. Fill out the Calibration File Form 1. Please use accurate information in order to get a faster response. Tool will be licensed within 24 hours (Monday-Friday excluding holidays). Paste the code in the box that asks for the tool serial number.

NOTE: We will email you back when the tool is registered.



28. **Connect your vehicle's battery to a battery charger to ensure that you have at least 12V at all times while following these instructions.**



29. Gather the supplied VF Tuner flash device.



Identify the ECU

30. The following steps require you to connect your vehicle to a laptop through the OBDII Port using the flash device. You **MUST** also have internet connection on your laptop.



Legacy flash device ONLY

31. If you have the Legacy device, click on the “File” menu, and select “Flash ECU – Legacy Flasher”.

(Continue on Next Page)

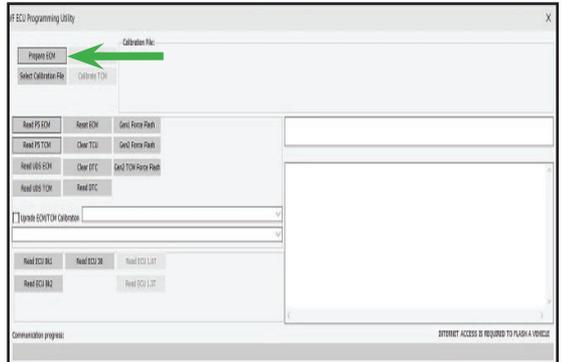


Legacy flash device ONLY

32. Turn on your car's ignition. Make sure that:
 - a. All your electrical loads (like air conditioning, headlights, indoor lights, radio, etc) are completely off (or as much as you can turn off)
 - b. Your ignition must be on, but your engine is OFF/NOT idling.
 - c. Place your car keys as near as you can to the start/stop button.
 - d. Make sure you have at least 12V of power from your battery and can maintain that voltage for the duration of the flash.
 - e. Check the connections of your WiFlash/Legacy device to the laptop and to the OBD2 port.
 - f. Do not move the laptop or the WiFlash/Legacy device to prevent connection loss.
 - g. Wait 15-20 seconds before proceeding to the next step.

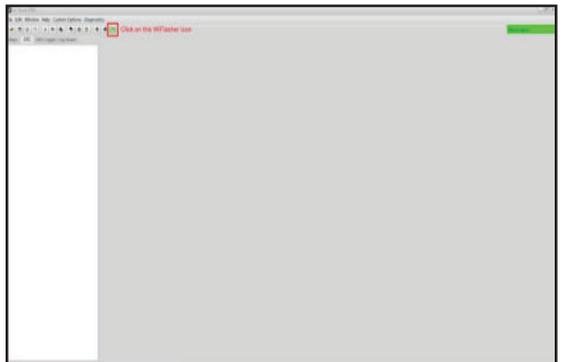
Legacy flash device ONLY

33. Click on "Prepare ECM" the ID number is your calibration ID. Do not license the vehicle at this point yet. **Calibration ID should look something like ex: 8966304B3100**



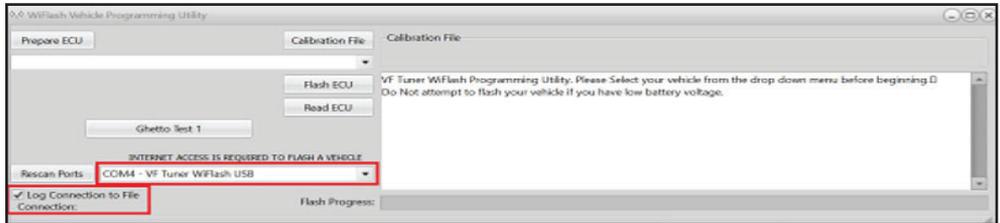
WiFlash device ONLY

34. Click on the WiFlash icon.



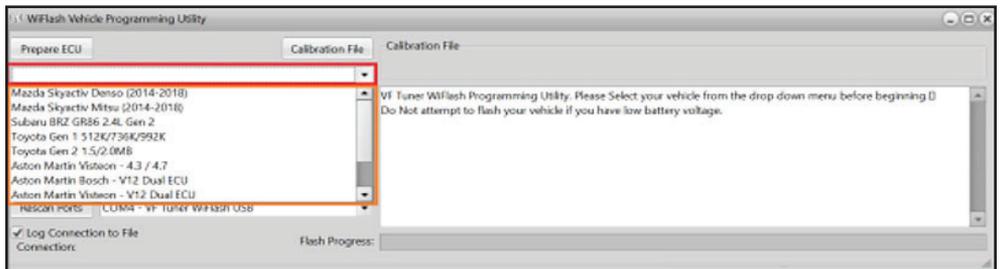
WiFlash device ONLY

35. The WiFlash Vehicle Programming Utility window will pop up. Make sure that the “Log Connection to File” is **NOT checked**. Verify that there is a text on the “Device” dropdown. > if the dropdown is empty, then the WiFlash device cannot be detected.



WiFlash device ONLY

36. Click on the dropdown menu and select the Toyota Gen 2 1.5/2.0MB.



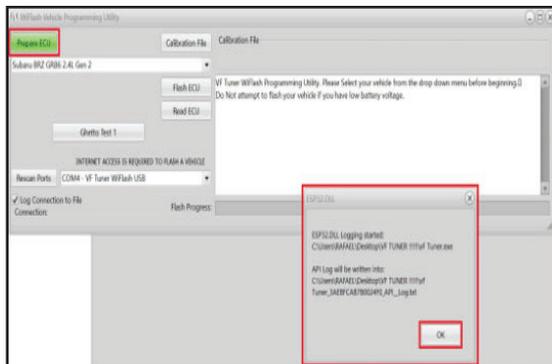
WiFlash device ONLY

37. Turn on your car's ignition. Make sure that:

- All your electrical loads (like air conditioning, headlights, indoor lights, radio, etc) are completely off (or as much as you can turn off)
- Your ignition must be on, but your engine is OFF/NOT idling.
- Place your car keys as near as you can to the start/stop button.
- Make sure you have at least 12V of power from your battery and can maintain that voltage for the duration of the flash.
- Check the connections of your WiFlash/Legacy device to the laptop and to the OBD2 port.
- Do not move the laptop or the WiFlash/Legacy device to prevent connection loss.
- Wait 15-20 seconds before proceeding to the next step.

WiFlash device ONLY

38. Click the “Prepare ECU” button. A small window will pop-up, please click “Ok”.

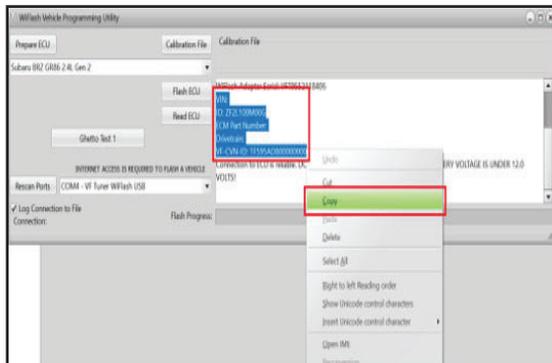


WiFlash device ONLY

39. Locate your ID number that is number required for form2. Example: 8966304C2100.

Both Devices need to follow the instructions below.

Go to back to MagnusonSuperchargers.com



40a. **For Tacoma:**

Under Superchargers

→ Toyota → Tacoma

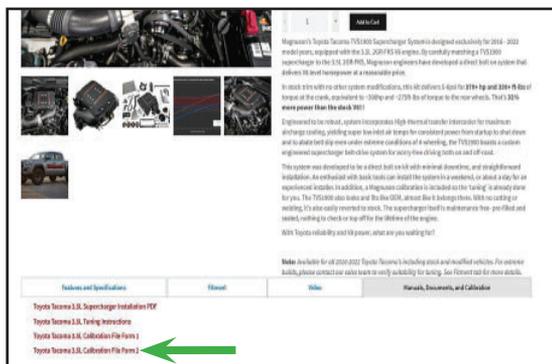
→ Toyota Tacoma

2GR-FKS 3.5L V6

Superchargers System

→ Manuals, Documents and Calibration. Click on

“**Toyota Tacoma 3.5L Calibration File Form 2**”.



40b. **For Tundra:**

Under Superchargers

→ Toyota → Tundra →

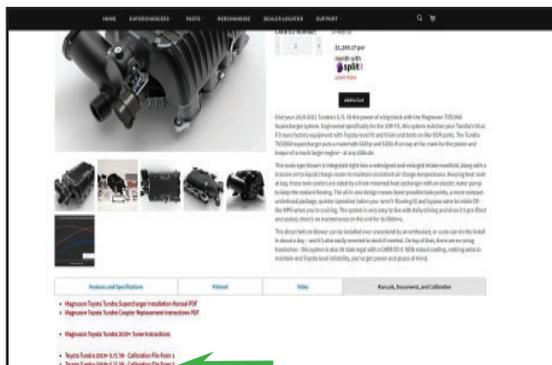
2019 Toyota Tundra

3UR-FE 5.7L V8

Superchargers System

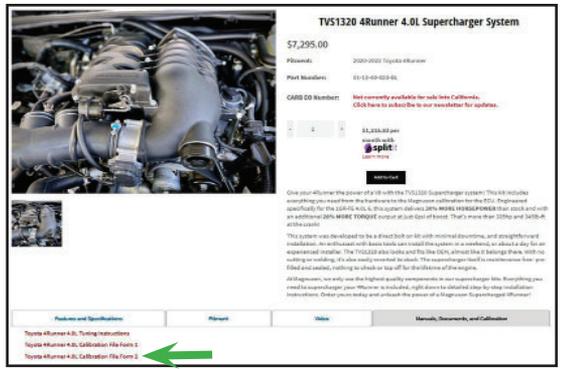
→ Manuals, Documents and Calibration. Click on

“**Toyota Tundra 2019+ Calibration File Form 2**”.



40c. **For 4Runner:**

Under Superchargers
→ Toyota → 4Runner →
TVS1320 4Runner 4.0L
Supercharger System
→ Manuals, Documents
and Calibration. Click on
“**Toyota 4Runner 4.0L
Calibration File Form 2**”.



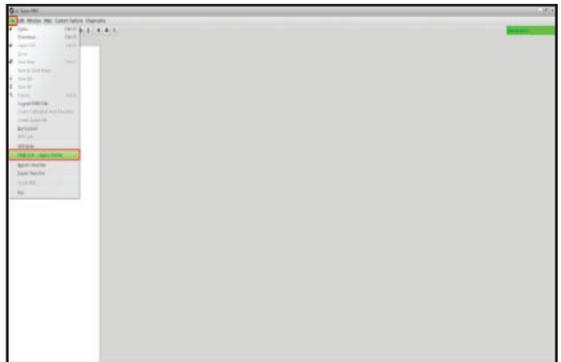
41. Fill out the Calibration File Form 2. Please use accurate information in order to get a faster response.*Magnuson Superchargers will send back a calibration file within 24 hours (Monday-Friday excluding holidays).



Magnuson Superchargers will send you an email that contains the calibration file. Please save the file in a location you can find.

Legacy flash device ONLY

42. If you have the Legacy device, click on the “File” menu, and select “Flash ECU – Legacy Flasher”.



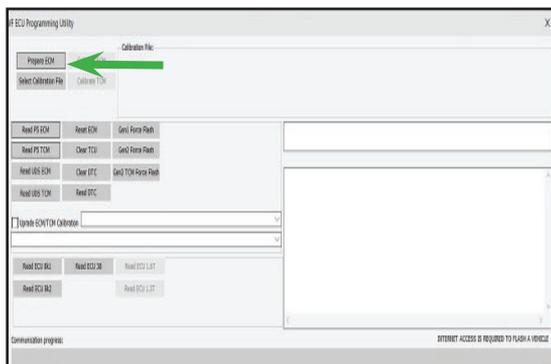
Legacy flash device ONLY

43. Turn on your car's ignition. Make sure that:

- All your electrical loads (like air conditioning, headlights, indoor lights, radio, etc) are completely off (or as much as you can turn off)
- Your ignition must be on, but your engine is OFF/NOT idling.
- Place your car keys as near as you can to the start/stop button.
- Make sure you have at least 12V of power from your battery and can maintain that voltage for the duration of the flash.
- Check the connections of your WiFlash/Legacy device to the laptop and to the OBD2 port.
- Do not move the laptop or the WiFlash/Legacy device to prevent connection loss.
- Wait 15-20 seconds before proceeding to the next step.

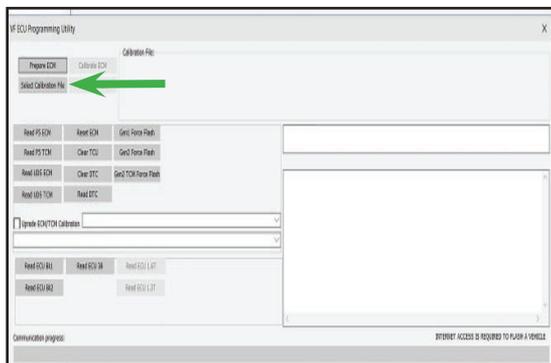
Legacy flash device ONLY

44. **Make sure you have a battery charger connected.** Click on “Prepare ECM” Follow on screen prompts.



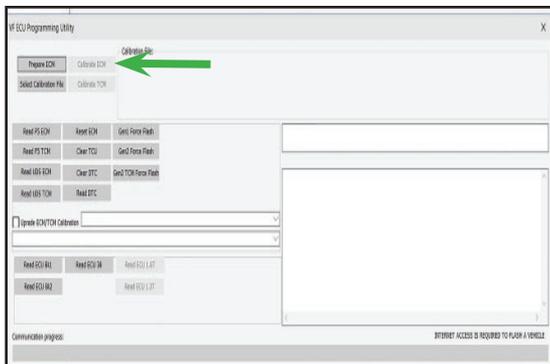
Legacy flash device ONLY

45. Follow the prompt on screen and click “Select Calibration File”.



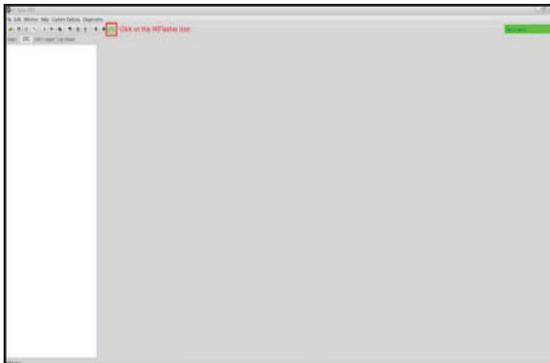
Legacy flash device ONLY

46. Click on calibrate ECM and follow the prompts on the screen. Progress bar will be completely green when it is complete.



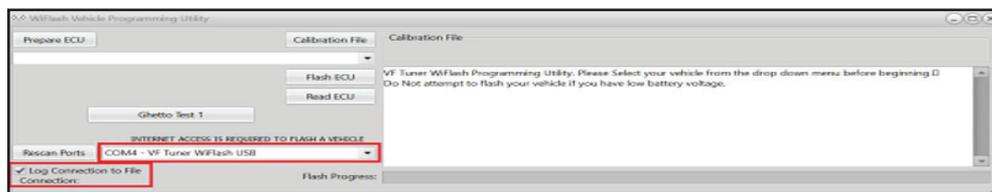
WiFlash device ONLY

47. Click on the WiFlash Icon.



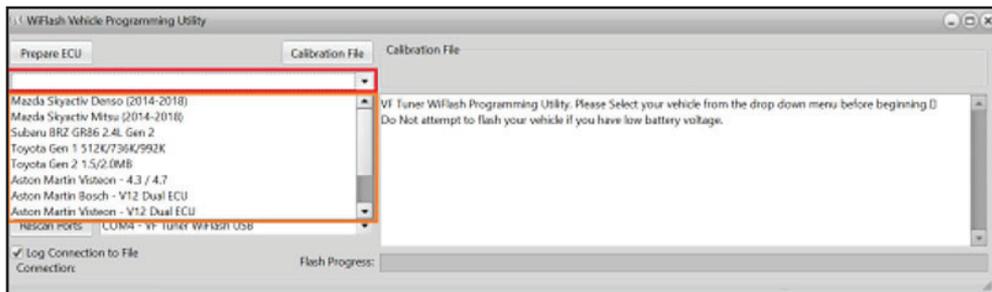
WiFlash device ONLY

48. The WiFlash Vehicle Programming Utility window will pop up. Make sure that the “Log Connection to File” is **NOT checked**. Verify that there is a text on the “Device” dropdown. > if the dropdown is empty, then the WiFlash device cannot be detected.



WiFlash device ONLY

49. Click on the dropdown menu and select the Toyota Gen 2 1.5/2.0MB .



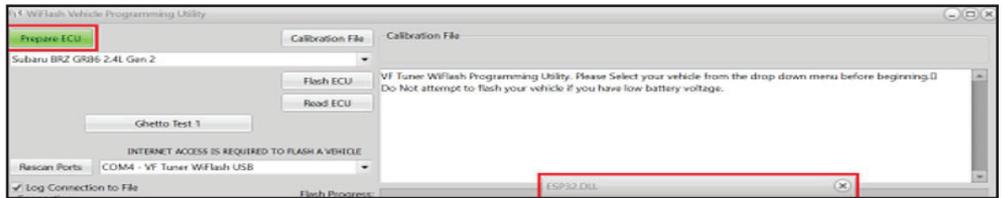
WiFlash device ONLY

50. Turn on your car's ignition. Make sure that:

- All your electrical loads (like air conditioning, headlights, indoor lights, radio, etc) are completely off (or as much as you can turn off)
- Your ignition must be on, but your engine is OFF/NOT idling.
- Place your car keys as near as you can to the start/stop button.
- Make sure you have at least 12V of power from your battery and can maintain that voltage for the duration of the flash.
- Check the connections of your WiFlash/Legacy device to the laptop and to the OBD2 port.
- Do not move the laptop or the WiFlash/Legacy device to prevent connection loss.
- Wait 15-20 seconds before proceeding to the next step.

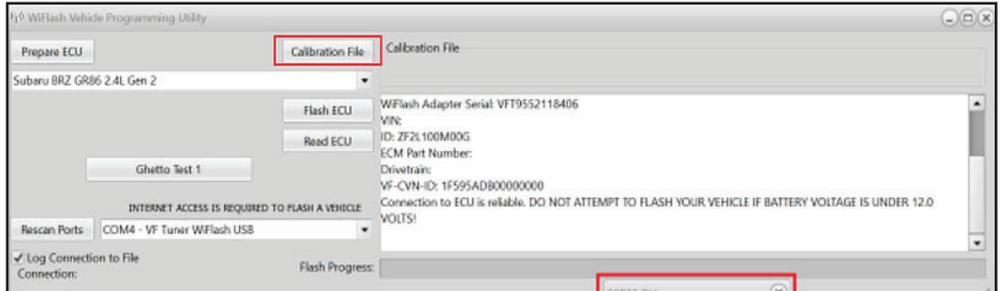
WiFlash device ONLY

51. Click the "Prepare ECU" button."



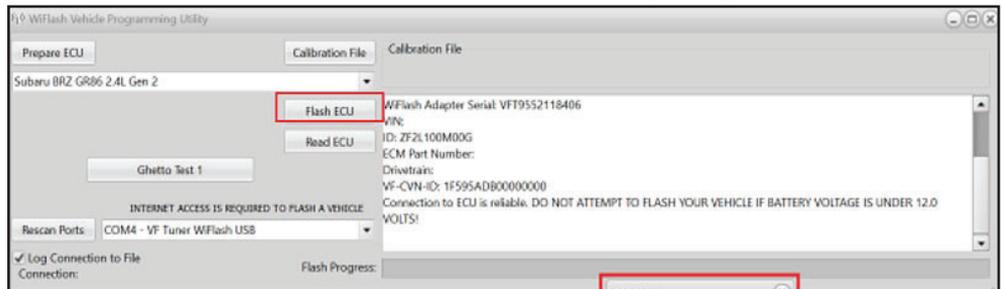
WiFlash device ONLY

52. Click on calibration file. Select the file that was sent to you.



WiFlash device ONLY

53. Click on Flash ECU. Follow the onscreen prompts.



NOTES

If you have any troubles with this process contact our technical support at support@magnusonsuperchargers.com or call 1-805-642-8833 (Press Option 3).



MAGNUSON
SUPERCHARGERS

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Ventura, CA, 93003
www.magnusonsuperchargers.com
1.805.642.8833