

MAGNUSON

SUPERCHARGERS

HP*tuners*



RTD Flash Tool Instructions

NOTE TO CUSTOMERS WITH MODIFIED VEHICLES:

The Magnuson calibration included with this kit is intended to work on stock vehicle configurations, including stock trim levels and stock OEM vehicle options. Modifications to your stock vehicle including, but not limited to, engine, flywheel, clutch, torque converter, transmission, wheels, tires, axles, gears, driveshafts, induction system, exhaust system and additional weight (ie. bumpers, racks, etc.) can have a significant impact on your vehicle's calibration and may require modifications to our calibration as supplied.

While we attempt to minimize the need for modifications during our development process, it is impossible for our team to account for all possible build variations/combinations, and in some cases it may be necessary for you to supply an additional element of customization for your vehicle—custom calibration—and to work, at your own direction and expense, with a local service facility to address your unique combination of hardware and make calibration adjustments as necessary.

Please be aware that standard product warranties and governmental emissions certifications are predicated on stock vehicle configurations, and vehicle modifications and calibration changes may affect or even void powertrain warranty and emissions certification status (such as CARB emissions certification). It is the sole responsibility of the customer making a warranty claim to prove that any vehicle modifications and calibration changes were within warranty. It also is the sole responsibility of the customer to determine if the modifications and changes comply with all local, state and federal emissions standards.

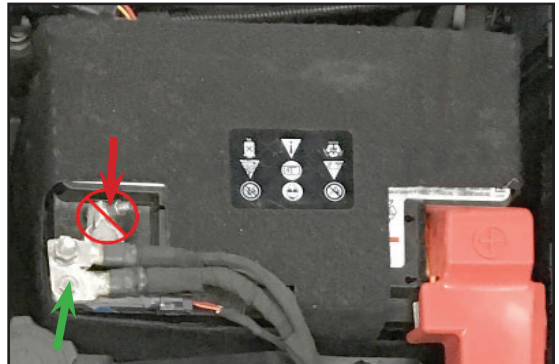
Please take the vehicle to a dealer and verify that the vehicle is on the latest calibration offered from the OEM before proceeding.

2015+ MOPAR vehicles will need the PCM removed and sent to HP Tuners for unlock before following these instructions.

1. Start by connecting a battery charger to the vehicle's battery to ensure that you have at least 12V at all times while following these instructions.



2. For Jeep owners you must attach the battery charger ground wire prior to the IBS unit at the green arrow location. **DO NOT** connect the ground of the charger to the pole clamp shown with the red arrow.



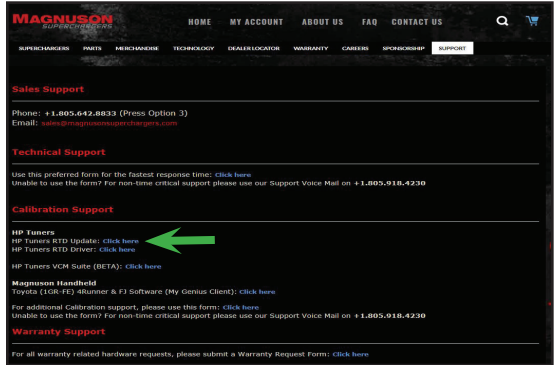
3. Gather the supplied HP Tuners RTD flash tool.



4. Now go to www.magnusonsuperchargers.com and click on the "Support" tab at the top of the page.



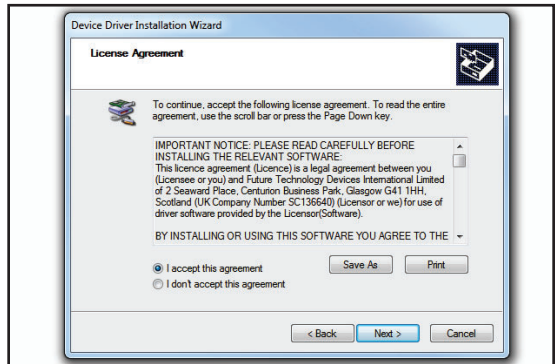
5. Click on the HP Tuners RTD Update link under Calibration Support. Also click on the HP Tuners RTD Driver link.



6. Once you have downloaded the RTD Flasher software follow the prompts for the setup wizard.



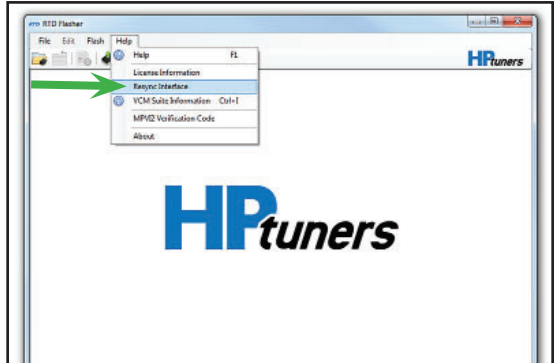
7. Follow the installation Wizard to install the device drivers for the RTD flash tool.



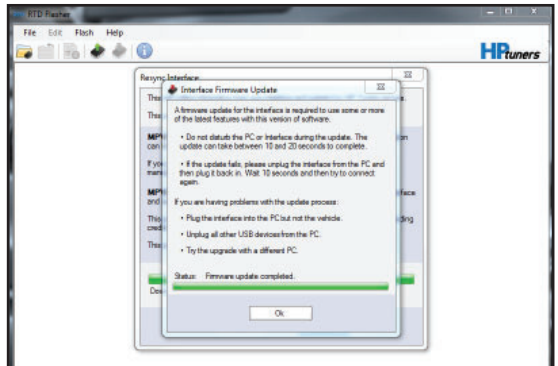
8. Gather the provided RTD flash tool and USB 2.0 connection cable. Connect this to your laptop.



9. Now select “Help” and then Resync Interface. **You must Resync your RTD flash tool before use.**



10. Follow any on screen directions for the Interface Firmware Update. You should see a “Firmware update completed.” statement once the process is done.



11. Once you Resync the RTD flash tool you will need to connect it to the vehicle OBDII Port. (*You must have access to the internet with your computer as the system will communicate directly with the HP Tuners server)



12. Using the RTD Flasher program you will now read the stock file information and the tool will upload the proper supporting file for your vehicle onto your laptop.



13. **Follow the next two steps if you have a start/stop button.** Key the vehicle on. **DO NOT START** the engine.



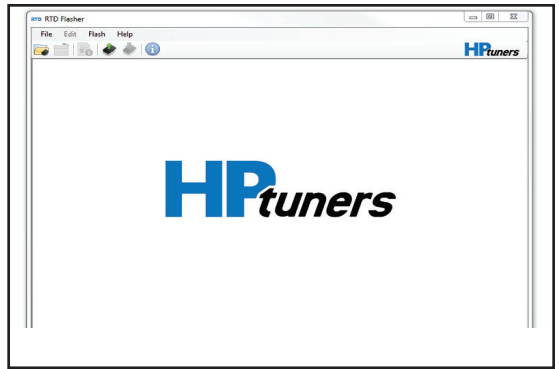
14. On Chrysler / Jeep applications with push start button, **DO NOT** depress the brake (or clutch on manuals) pedal. You must push the button twice in order to completely power up all the vehicle systems. The gauges will sweep and the lights will come on in the dash.



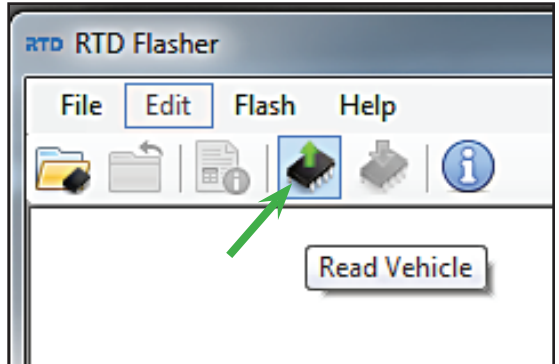
15. On GM Products with a push start button, **DO NOT** depress the brake (or clutch on manuals) pedal. You must push **AND HOLD** the button for 5 – 10 seconds in order to completely power up all the vehicle systems. The start button LED will be green and all gauges will sweep and the lights will come on in the dash.



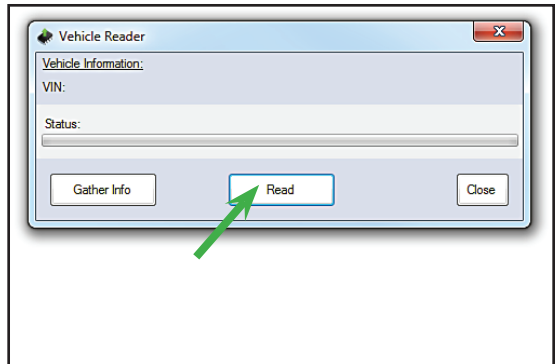
16. Open the RTD Flasher software.



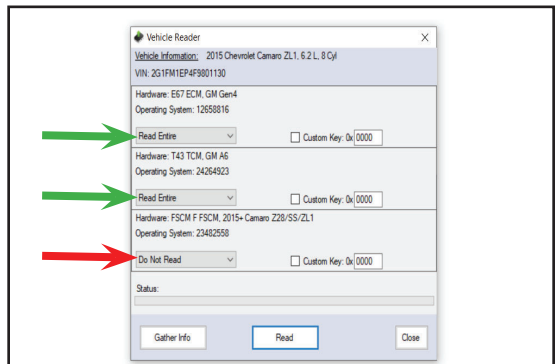
17. On the RTD Flasher Screen select the icon shown with the arrow to start reading the vehicle.



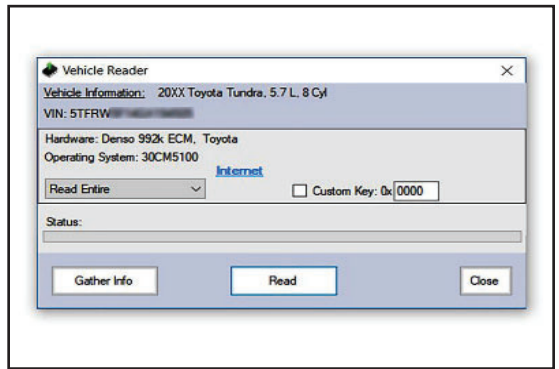
18. Select the read button to begin the process.



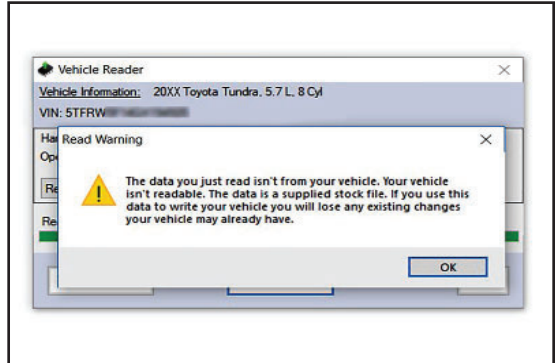
19. Choose "Read Entire" from the drop down menu for the ECM, and TCM shown with green arrows. **"DO NOT read" the Fuel Control Module (FSCM) shown at the red arrow location.** *Note: On newer vehicles that do not allow you to upload the transmission because the module is not supported or needs an additional unlocking process, please also deselect the TCM.



20. You will see the vehicle information shown.

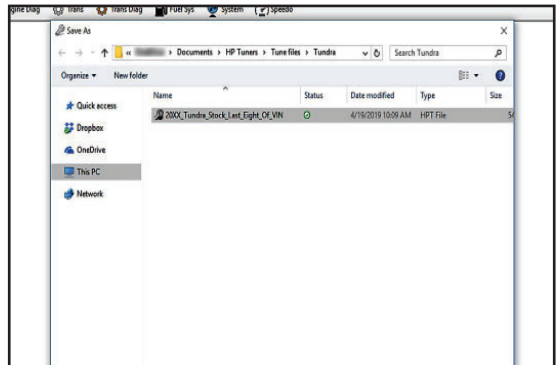


21. **Some vehicles will not show this warning.** When the Vehicle Reader is done you will see a "Read Warning". Select "OK" after reading the statement.

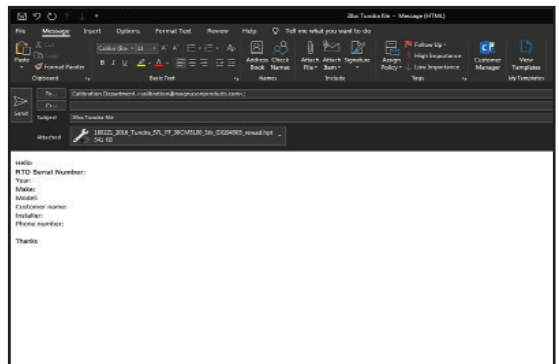


22. Save the file with the following format:
20XX_Model_Stock_Last_Eight_Of_VIN

The "XX" area will have the model year and the "VIN" area will have your vehicle identification number.



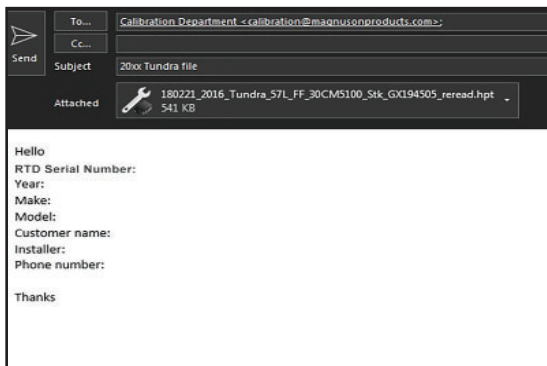
23. Once the upload is complete you can disconnect from the vehicle and email the file to: **calibration@magnusonproducts.com**. Please include the information shown in the next step with the email containing the file.



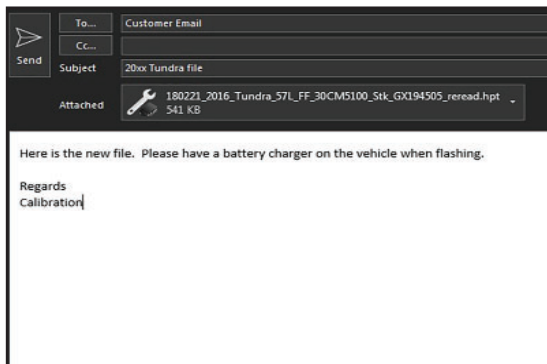
24. Information to include in email:

- a. **Serial # of RTD Flashing tool**
- b. Customer Name/ Install shop
- c. Contact information including phone number
- d. Year/Make/Model of the Vehicle.
- e. Magnuson Kit part number.

Failure to include all the proper information in the email will add to further delays.



25. Once the new file is completed it will be emailed back to you. Please allow at least 24 hours Monday-Friday for the new file to be created.



26. **Once again ensure that a Battery Charger is connected to the vehicle with at least 12V.**



27. **Check the next two steps if you have a start/stop button.** Key the vehicle on. **DO NOT START** the engine.



28. On Chrysler / Jeep applications with push start button, **DO NOT** depress the brake (or clutch on manuals) pedal. You must push the button twice in order to completely power up all the vehicle systems. The gauges will sweep and the lights will come on in the dash.



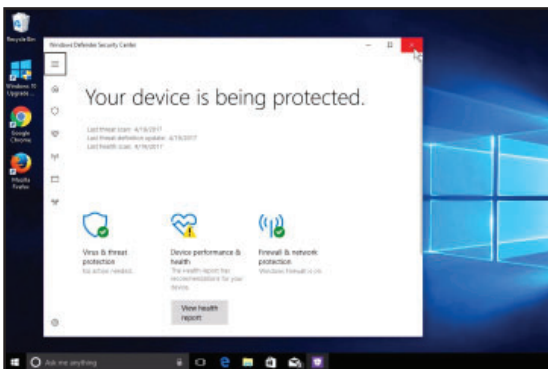
29. On GM Products with a push start button, **DO NOT** depress the brake (or clutch on manuals) pedal. You must push **AND HOLD** the button for 5 – 10 seconds in order to completely power up all the vehicle systems. The start button LED will be green and all gauges will sweep and the lights will come on in the dash.



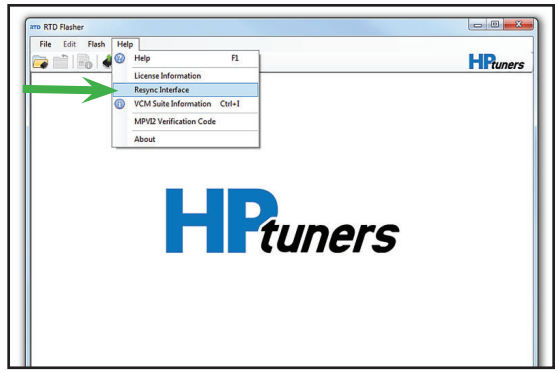
30. Reconnect to the vehicle (again needing internet access) and open the RTD Flasher program.



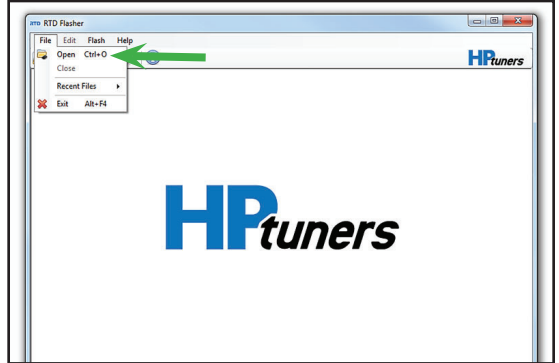
31. If you have a newer version of Microsoft Windows, you must “Disable” Windows defender or any other firewall in order to be able to write to the vehicle using HP Tuners.



32. Now select “Help” and then Resync Interface once again. **You must Resync your RTD flash tool before you can write the new file to your vehicle.**



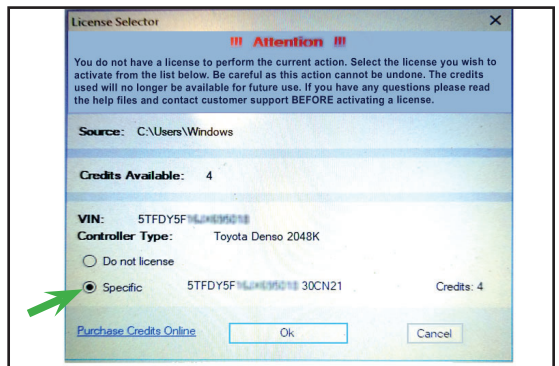
33. Open the new tune file that was emailed to you in the RTD Flasher software.



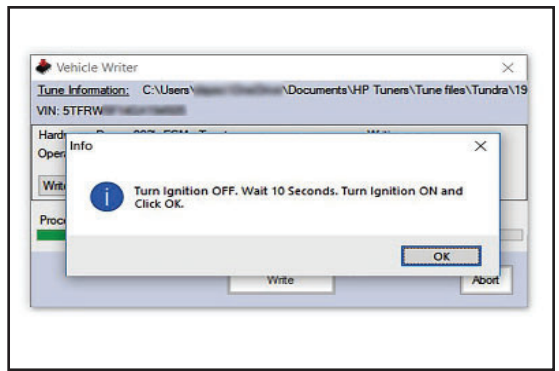
34. Select the “Write Vehicle” icon to download the program to the PCM. **DO NOT disconnect, try to stop or panic during the download. If there is a problem the program will abort the download.** (This process takes about 10 Minutes)



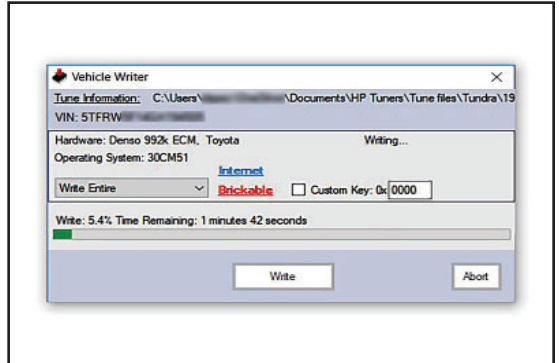
35. Select the “Specific” license that matches your vehicle. Then select “OK”.



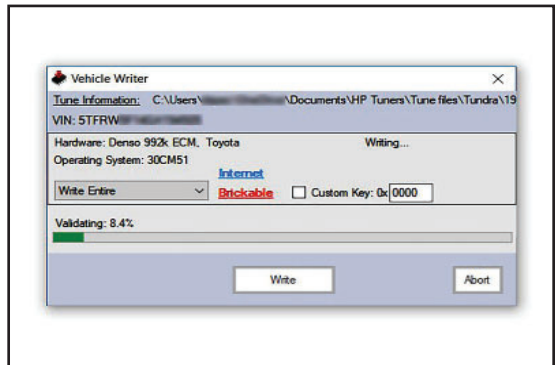
36. **Some vehicles will not show this “Info” window. Skip this step if you do not see this information on the screen.** You will be prompted to “Turn the ignition OFF. Wait 10 Seconds. Turn the Ignition ON and click OK.”



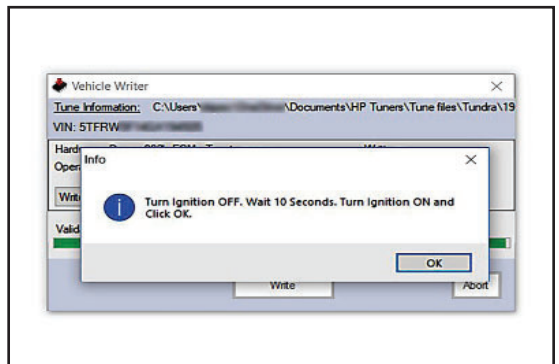
37. The writing process will begin.



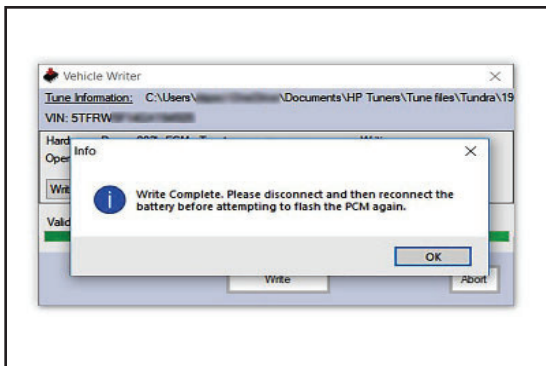
38. Validation will start after the write procedure.
*Note: Not all applications will show the validation process. You may only see a “Write Complete” message.



39. **Some vehicles will not show this “Info” window. Skip this step if you do not see this information on the screen.** Once again you will be prompted to “Turn the ignition OFF. Wait 10 Seconds. Turn the Ignition ON and click OK.”



40. **Some vehicles will not show this “Info” window. Skip this step if you do not see this information on the screen.** At the end of the download process you will see a “Write Complete” Info window. Select “OK” and exit the RTD Flasher.



41. After closing the RTD Flasher, cycle the key OFF. **Your vehicle is now ready for the installation of the Supercharger System.**



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).

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