HP TUNER MPVI-3/4 INSTALLATION MANUAL

FORD 2.3L, 2.7L, 3.0L, 3.5L, 5.0, 5.2L, 5.4, 5.8, 6.2, 7.3L ENGINES

IMPORTANT NOTES

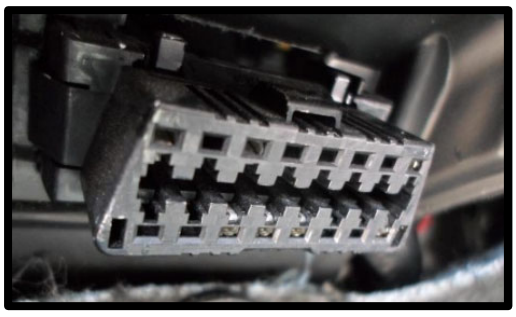
- **Read through instructions prior to installation.**
- **Never** start installing supercharger or performance parts without requesting and receiving your Whipple calibration. Calibrations generally take 24-48 business hours but can be longer if there are updates or support issues.
- **Having the latest OEM PCM and TCM calibration is highly recommended to eliminate potential OEM issues in calibration.**
- **Whipple calibrations are for stock engines, changes such as long tubes, cold air intakes, cams and big throttle bodies are not supported in anyway. Making any changes to the calibration is strictly prohibited. Any change will void all warranties and will make the vehicle non-emissions legal.**
- **IT IS THE RESPONSIBILITY OF THE INSTALLER AND/OR USER OF THIS PRODUCT TO ENSURE THAT IT IS USED IN COMPLIANCE WITH ALL APPLICABLE LAWS AND REGULATIONS.**

1. Go to the HP Tuner website: https://www.hptuners.com/downloads/. Download the latest VCM Suite **BETA**. If you run into any issues installing the software, email **support@hptuners.com** for resolution. Issues with calibration or data logging, please contact us @ support@whipplesuperchargers.com

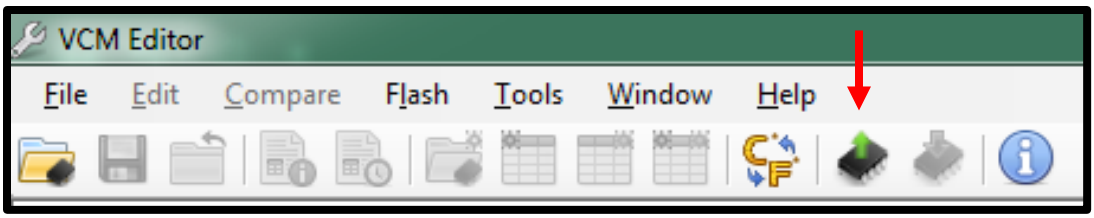
2. Open VCM Editor program by clicking the wrench icon.



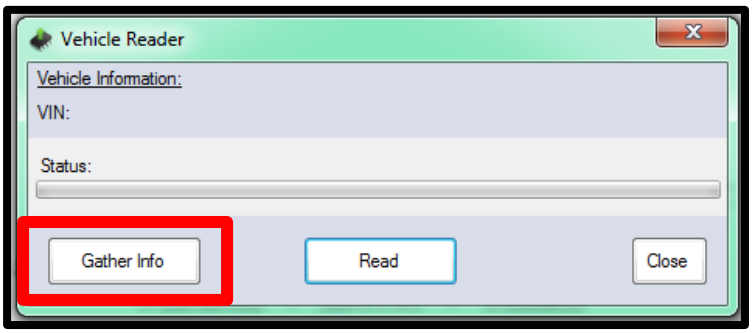
3. Connect to the OBDII port with the MPVI flash tool.



4. With the vehicle ignition in RUN position, engine not running, click the **green arrow** icon to **READ** the file in the PCM.

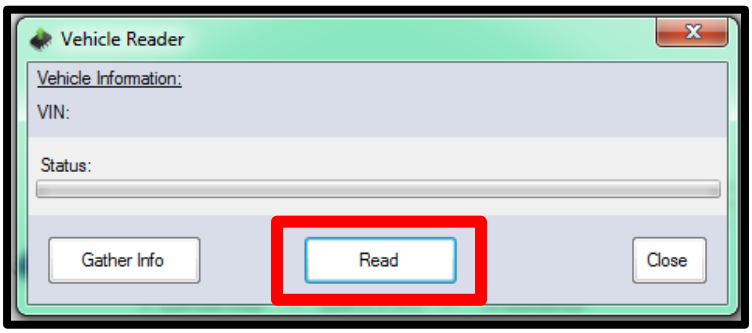


5. Click the "Gather Info" icon to populate the PCM data. If it doesn't auto recognize the **PCM** and **TCM (when applicable)**, scroll down the list.



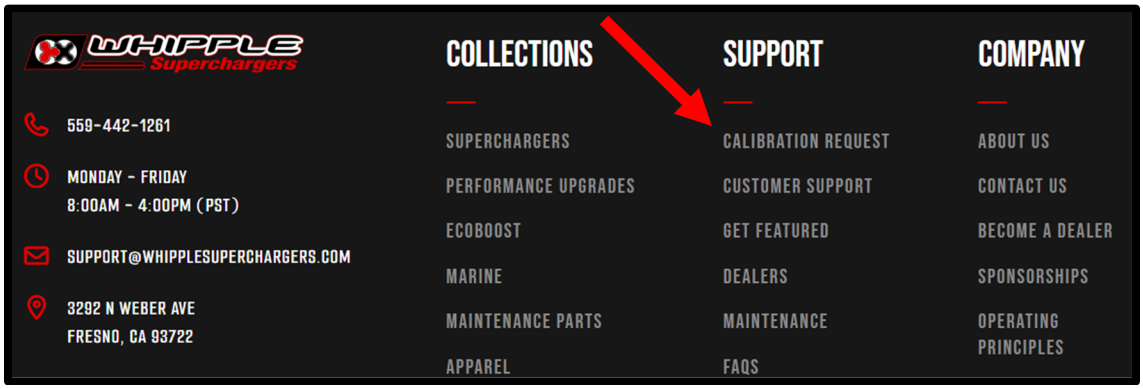
Vehicle	Model Year	Engine	Engine	TCM	PCM #	TCM #
Bronco	2021-2025	2.3L/2.7L	READ	N/A	MG1CS055	N/A
Bronco Raptor	2022-2025	3.0L	READ	N/A	MG1CS055	N/A
Expedition	2018-2021	3.5L	READ	N/A	TC-277	TC-277 D
Expedition	2022-2026	3.5L	READ	N/A	MG1CS055	N/A
Explorer	2020-2024	3.0L	READ	N/A	TC-298 B	N/A
Explorer	2025-2026	3.0L	READ	N/A	MG1CS055	N/A
F150	2015-2016	2.7L/3.5L	READ	N/A	TC-1797	N/A
F150	2015-2017	5.0L	READ	N/A	TC-1791	N/A
F150	2018-2020	5.0L	READ	N/A	TC-298	N/A
F150	2021-2023	5.0L	READ	N/A	MG1CS036	N/A
F150	2024-2026	5.0L	READ	N/A	MG1CS055	N/A
F150/Raptor	2017	2.7L/3.5L	READ	READ	TC-277	TC-277 B
F150/Raptor	2018-2020	2.7L/3.5L	READ	READ	TC-277	TC-277 D
F150/Raptor	2021-2026	2.7L/3.5L	READ	N/A	MG1CS055	N/A
F150 Raptor R	2023-2027	5.2L	READ	N/A	MG1CS055	N/A
F250/F350	2020-2022	7.3L	READ	N/A	TC-298 B	N/A
F250/F350	2023-2026	7.3L	READ	N/A	MG1CS060	N/A
Mustang	2011-2014	5.0L	READ	N/A	Copperhead 2048K	N/A
Mustang	2015-2017	5.0L	READ	N/A	TC-1791	N/A
Mustang	2018-2023/2018-2020	2.3L/5.0L	READ	N/A	TC-298	N/A
Mustang	2024-2026	5.0L	READ	N/A	MG1CS055	N/A
Navigator	2018-2021	3.5L	READ	READ	TC-277	TC-277 D
Navigator	2022-2026	3.5L	READ	N/A	MG1CS055	N/A
Ranger	2019-2023	2.3L	READ	N/A	TC-298 B	N/A

6. Once the info is gathered by HP Tuners, click the "Read" icon.

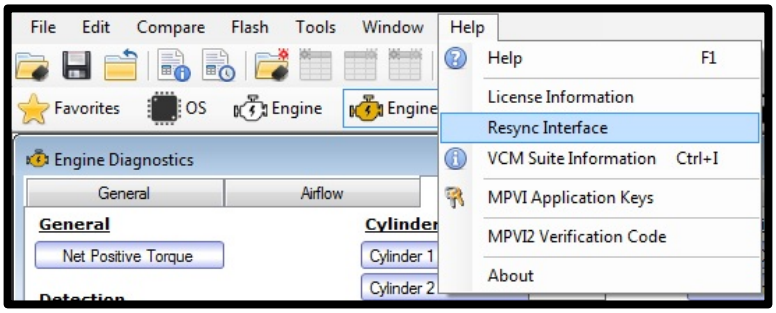


7. Once the file is uploaded, save this file in an easy to find location (example: mydocuments/HP Tuners/cals and logs). Create a file name with VIN number, Customer name and engine size. Example: **2C3CDXCT1FH737913_John Smith_5.2L_Stock**. If you want to keep the file name shorter, use only the last 4 digits of the VIN but keep the same information. We will supply a similar name but with SC in the file to help distinguish between them. NOTE: Always keep the stock file. If you are a dealer/installer, email the file to the customer for future access. Whipple does not store stock files.

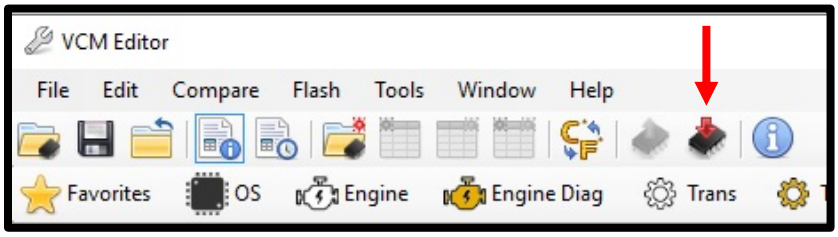
8. Go to the Whipple Superchargers website and go to **CALIBRATION REQUEST** tab, or follow the link: [Whipple Superchargers Calibration Request.]() Calibrations may take 1-2 business days to build your unique calibration so this is important to do **BEFORE** you start the supercharger installation. Each calibration is locked to the supplied HP Tuner serial #. **NOTE: Whipple builds the files and locks them to the supplied HP Tuner tool. If you are using a different tool, you must notify Whipple, if not, your calibration will not open in your software.**



9. Once calibration is supplied, resync HP MPVI tool to get your credits. Open VCM Editor. Go to the help tab, with internet access and the MPVI connected to PC, click **RESYNC INTERFACE** which will add credits to the tool.



10. Once calibration is supplied, save to your PC in the same location as the stock file. Open **VCM Editor**. Open the calibration by clicking **File** and locating your file, connect to OBD2 port and PC, turn ignition to engine run (do not start engine). Click the **RED ARROW** icon (**WRITE VEHICLE**) to write the new calibration to the vehicle. Follow on screen commands to flash vehicle.

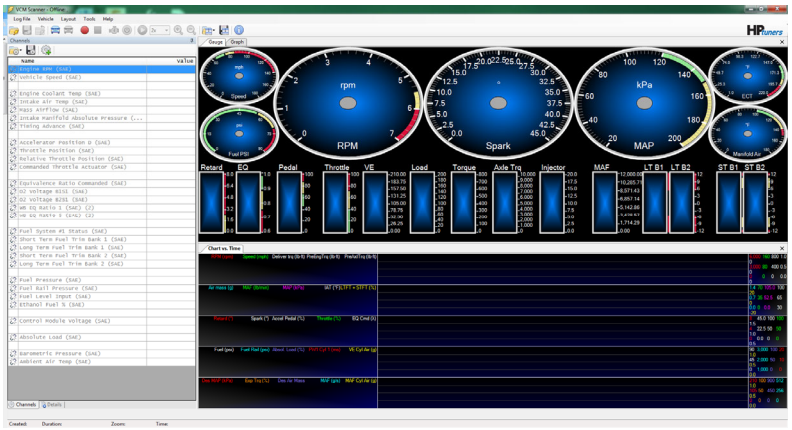


11. Once the vehicle is flashed, turnkey off (follow on screen instructions). The vehicle is now ready to start.

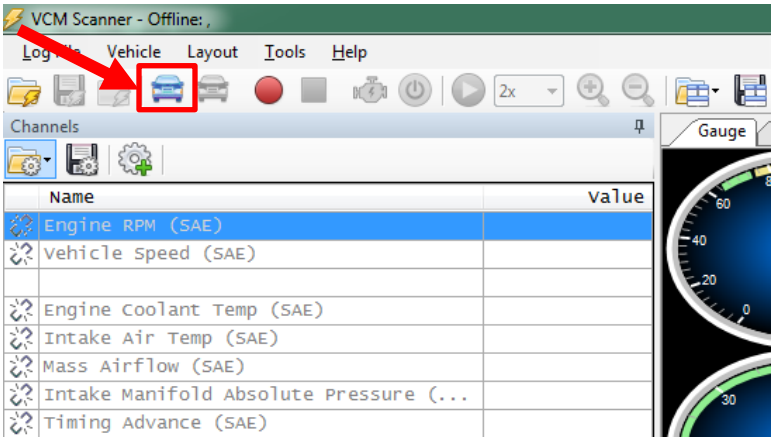
12. HP Tuners supplies a free data logging program, VCM Scanner **BETA**. With foot off brake, hold the push button ignition for 10 seconds until the green light turns on, this is Diagnostic mode. Using VCM scanner, click the check engine icon, then "**READ CODES**". Once it populates, click **CLEAR CODES**. Once done, turnkey off, open door to power vehicle off, from here you're ready to run.

13. If required, you may use this for diagnostic purposes. Whipple has pre-made channel list for proper data logging. If logging, please request a data log channel list from support@whipplesuperchargers.com.

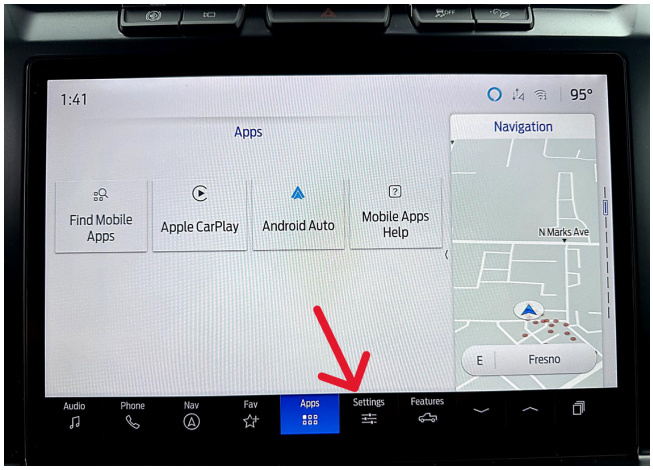
14. Vehicles that require Tire/Axle changes for speedometer correction. Open VCM Scanner program.



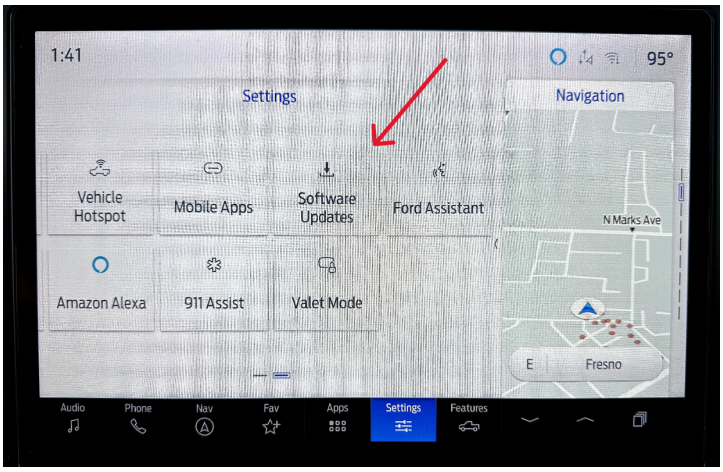
15. With the ignition on, engine not running, click the Blue Car Icon on VCM Scanner to connect to the vehicle.



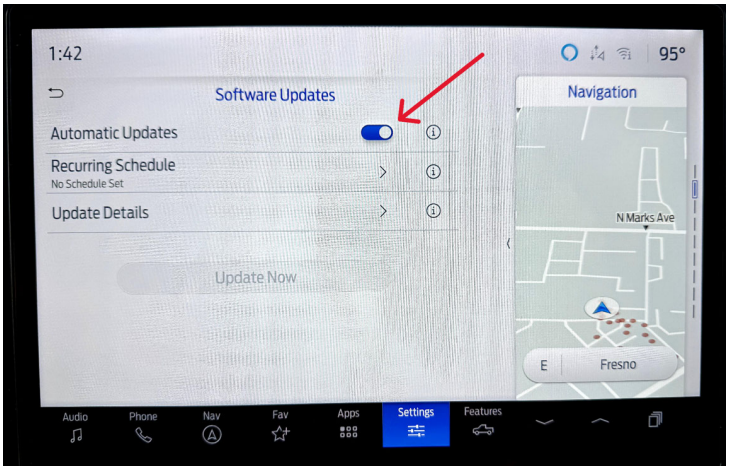
16. On 2024 and newer models with Over The Air update capacity (**OTA**), you will need to toggle this option to OFF. With key in ON position, on your SYNC infotainment screen, select **Settings** from the main menu.



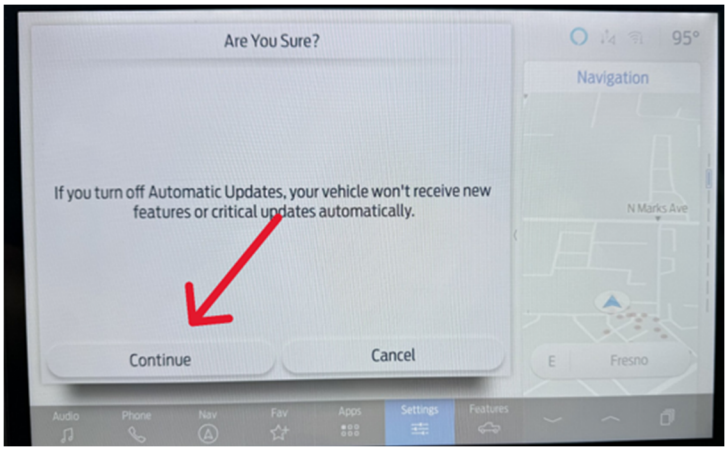
17. Scroll through the menu and choose **Software Updates**.



18. Disable **Automatic Updates** by toggling switch to **OFF**.



19. Select **Continue** on the following menu.



20. If the vehicle **Power Train Control Module** (not other modules) gets updated after its been modified, you will need to re-read the file, send it in and get an updated file built. NOTE: Non modified modules can always get updates, example, SYNC, ABS, Trailer Module, etc.

21. The vehicle is now ready to start and operate.

22. HP Tuners supplies a free data logging program, VCM Scanner. If required, you may use this for diagnostic purposes. Whipple has pre-made channel list for proper data logging. If logging, please request a data log channel list so you can gather the proper data.

23. **NEVER MAKE CHANGES TO THE CALIBRATION**. The calibration is designed and tested by Whipple Superchargers. Any change will void any and all warranties, along with emissions compatibility.

24. All HP Tuner files are locked and do not allow customer adjustment due to emission regulations.

25. Whipple does not offer custom calibrations due to emission regulations.

For questions in regards to the software and installation, please visit HP Tuners FAQ section of their online forum as almost all answers are here: https://www.hptuners.com/forum/forumdisplay.php?35-VCM-Suite-FAQ