



# L5P TUNING INSTRUCTIONS





Thank you for purchasing a Motor Ops L5P Tuning Package.

The entire process may take a couple of hours; please make sure that you have thoroughly read through the instructions before moving forward.

**YOU WILL NEED INTERNET ACCESS FOR THE ENTIRE PROCESS.**

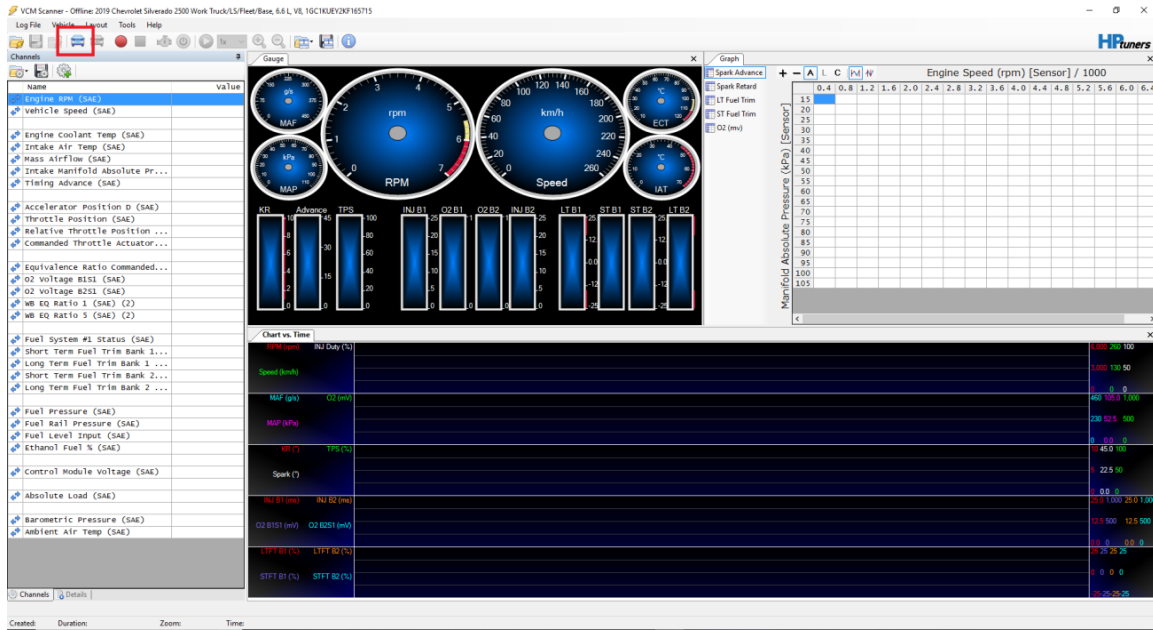
**YOU MUST COMPLETE THE TUNING PROCESS BEFORE PERFORMING ANY MODIFICATIONS TO YOUR VEHICLE**

**Warning:** Failure to disable the Air Filter Life System on 2020+ trucks prior to performing the ECM swap process will cause a warning light that can only be reset by a GM Dealer. Please see the “Disabling the Air Filter Life system” Document for step-by-step instructions

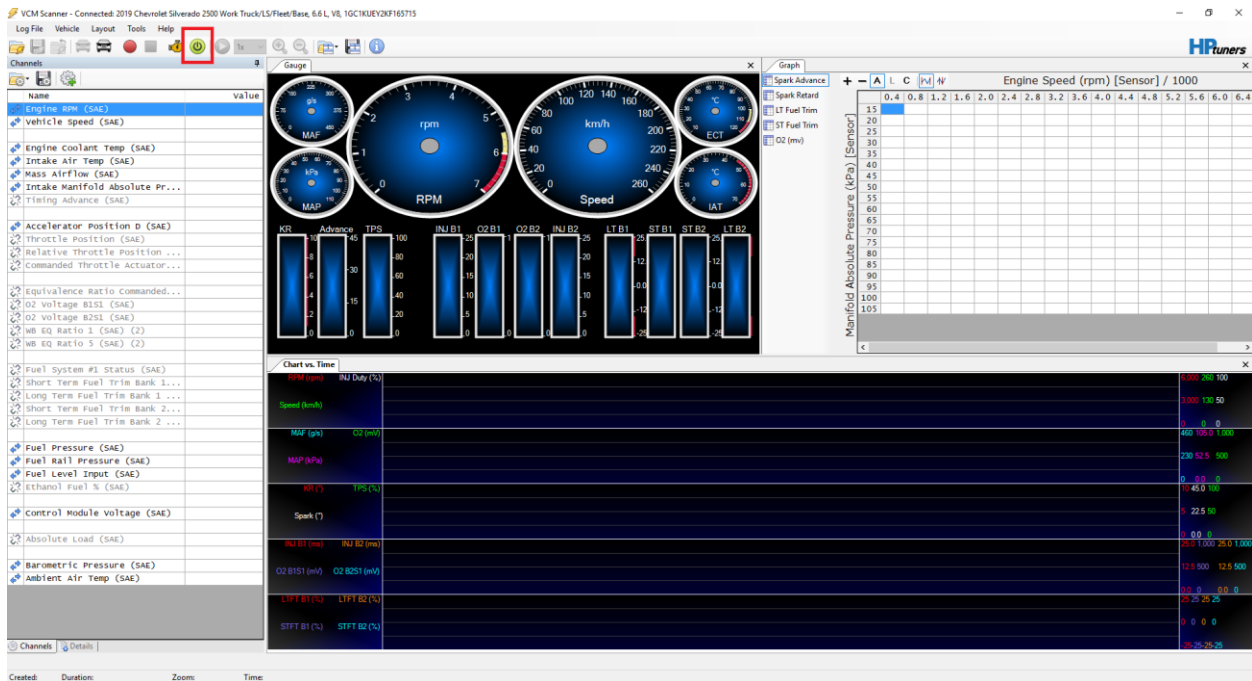
### **BEFORE REMOVING YOUR FACTORY ECM**

1. Download **AND** install the latest **VCM Suite Beta** available at [www.hptuners.com/downloads](http://www.hptuners.com/downloads)
2. Plug your MPVI2 into your laptop and then connect your MPVI2 to the vehicle's OBD2 port with the **STOCK** ECM still installed. Turn truck's key to “ON” position. For models equipped with a push button start, press and HOLD the start button for 10 seconds or until it lights up green. Do not press the brake while doing this!
3. Open VCM Scanner on your laptop
4. Select the icon that says “Connect to Vehicle” on the navigation bar





5. Select the “Controls & Special Functions” button



6. Select the Systems Tab



The screenshot shows the HP Tuners software interface. The 'Controls and Special Functions' dialog box is open, and the 'System' tab is selected. The 'Replace ECM' option is highlighted in red. The background shows various gauges and a data table.

Engine Speed (rpm) [Sensor] / 1000	Spark Advance	Spark Retard	LT Fuel Trim	ST Fuel Trim	O2 (mv)
0.4	0.8	1.2	1.6	2.0	2.4
2.8	3.2	3.6	4.0	4.4	4.8
5.2	5.6	6.0	6.4		
15					
20					
25					
30					
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95					
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105					

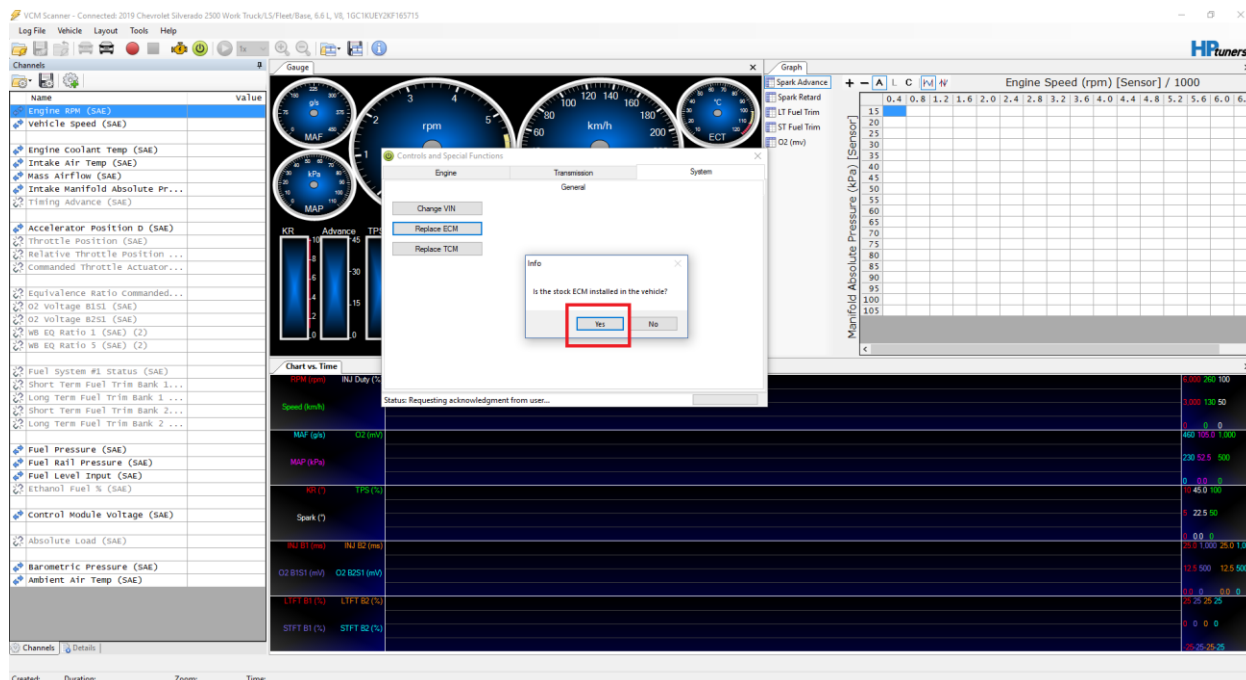
## 7. Click "Replace ECM" To start the function

The screenshot shows the HP Tuners software interface. The 'Controls and Special Functions' dialog box is open, and the 'Replace ECM' option is highlighted in red. The background shows various gauges and a data table.

Engine Speed (rpm) [Sensor] / 1000	Spark Advance	Spark Retard	LT Fuel Trim	ST Fuel Trim	O2 (mv)
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2.8	3.2	3.6	4.0	4.4	4.8
5.2	5.6	6.0	6.4		
15					
20					
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## 8. It will again ask you if the stock ECM is installed. Click Yes.



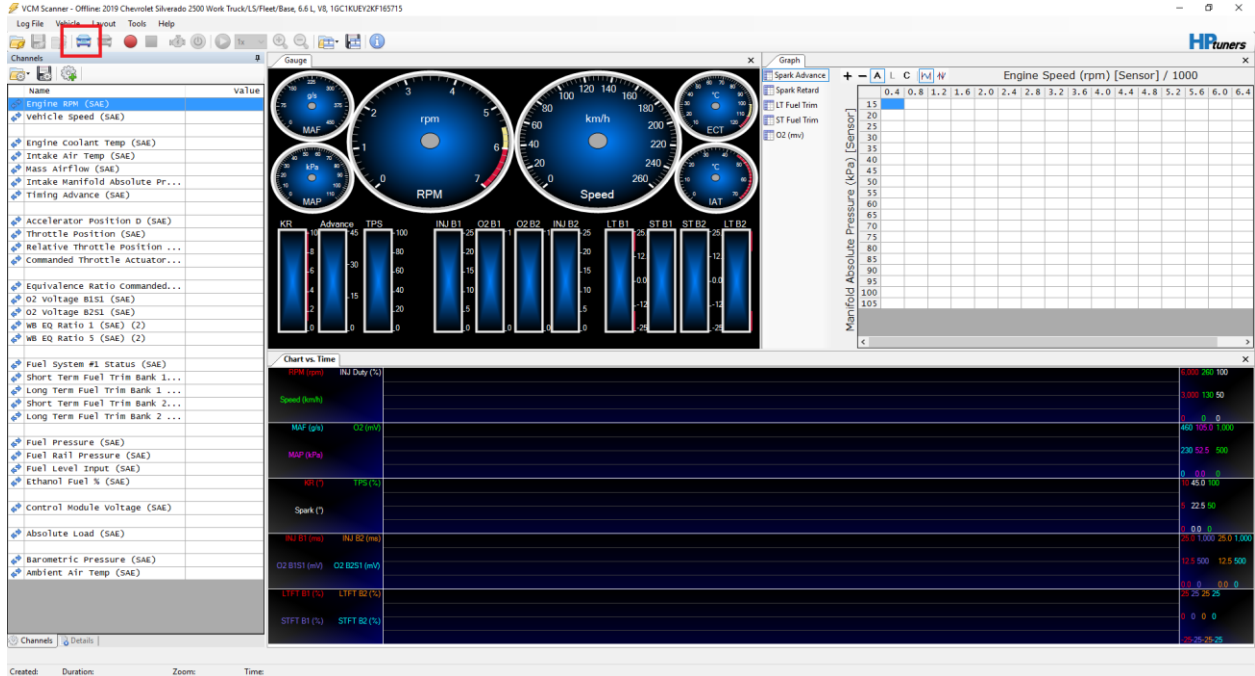


9. ECM Data Read Successfully. Click okay. You may now replace the stock ECM with your provided unlocked ECM. **DO NOT CLOSE THE VCM SCANNER PROGRAM AND DO NOT DISCONNECT THE MPVI2 FROM YOUR COMPUTER OR FROM THE VEHICLE.** Turn your Key to the off position prior to disconnecting your factory ECM.

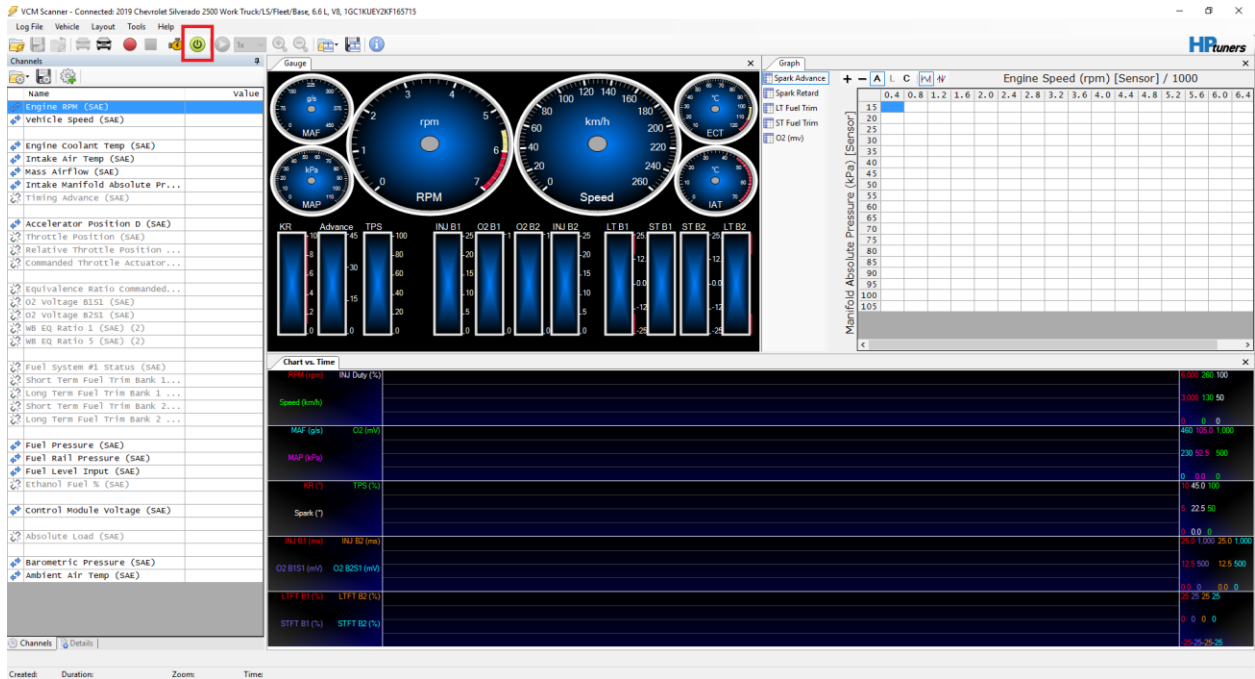
10. Your ECM is located on the driver-side of the vehicle next to your battery. There are three ECM harnesses that will need to be disconnected. There is also a 10 mm bolt that secures the ECM to the tray that it is held in. That 10 mm bolt will need to be removed. Once you have swapped the ECM you can proceed to step 11.

11. On VCM Scanner reconnect to the Vehicle





## 12. Select the “Controls & Special Functions”



## 13. Select the “Systems” Tab



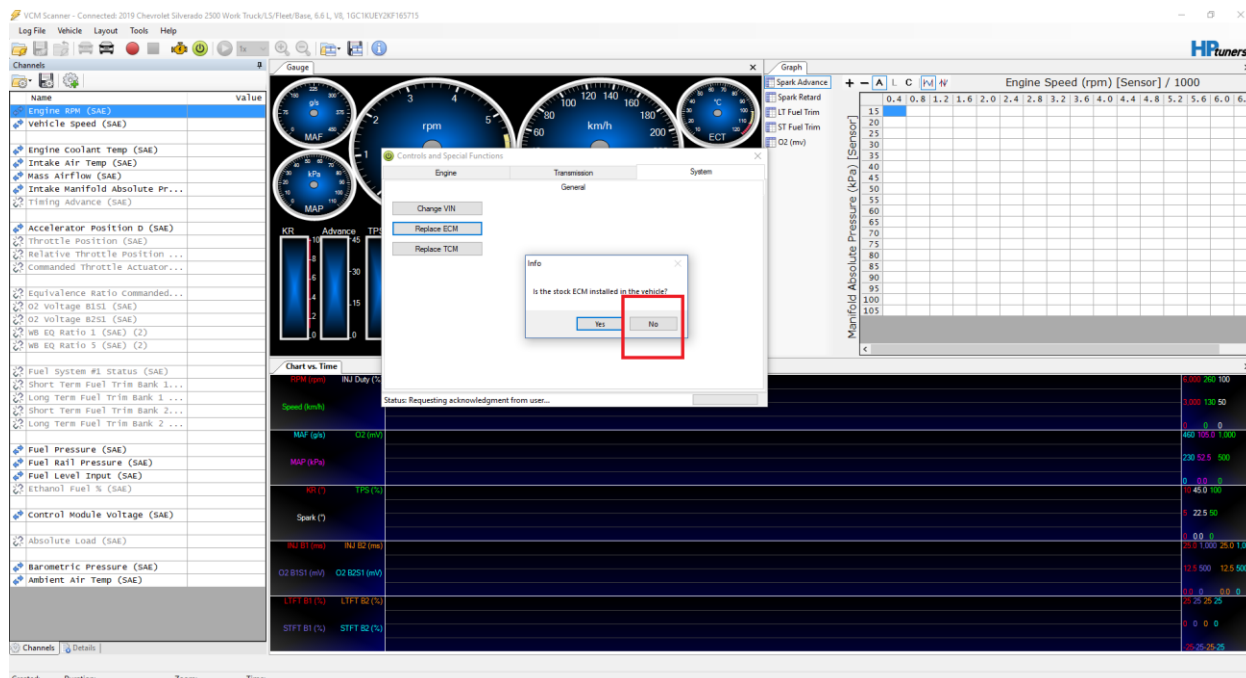
The screenshot shows the HR Tuners software interface. The main window displays various gauges and data tables. A dialog box titled "Controls and Special Functions" is open, with the "System" tab selected. The "Replace ECM" button is highlighted with a red box. The background shows a list of channels on the left, a gauge display in the center, and a data table on the right.

14. Click “Replace ECM” To start the function.

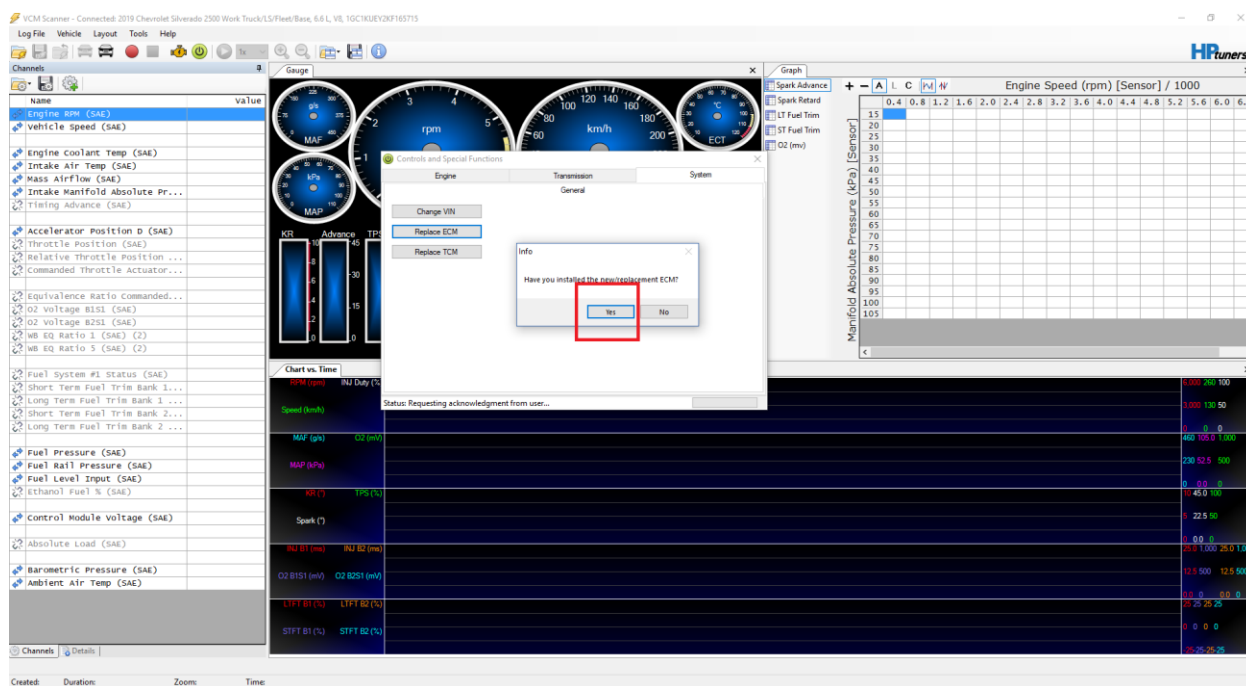
The screenshot shows the HR Tuners software interface after the "Replace ECM" function has been completed. The "Controls and Special Functions" dialog box is now empty, and the "Replace ECM" button is no longer visible. The background shows the same list of channels, gauge display, and data table as in the previous screenshot.

15. It will again ask you if the stock ECM is installed. This time select “NO”





16. It will ask you if you have installed the new/replacement ECM; select “Yes”.



17. The ECM Replacement is now Complete.

18. If you have not yet installed your unlocked TCM, now is a good time to do so. The new unlocked TCM will require a driving relearn process after flashing. **DO NOT** tow or drive the vehicle erratically before doing the TCM relearn process. The complete TCM relearn process can be found on the last step of these instructions.

