2017 – 2023 L5P/L5D Duramax ECM Upgrade Instructions

2019 – 2023 trucks do not need to utilize the E41 ECM Upgrade Kit and can skip steps 2 through 6.

1. Download the latest version of the HP Tuners VCM Suite (beta) – MUST BE UPDATED AT THE TIME OF THE UPGRADE AND MUST BE THE BETA VERSION

    a. https://www.hptuners.com/downloads/

    b. If this is your first time downloading the beta or if it has not been updated recently, you MUST download the .NET Desktop Runtime update below the BETA download

2. With the truck turned off, open the hood of the truck and remove the fuse box lid

3. **Remove** the ECM power fuse

    a. 2017 – 2018 | Fuse #57 (15A 3 Blade Fuse)

4. **Plug** the cable fuse plug in to the removed fuse slot (SEE IMAGES BELOW)

    a. 2017 – 2018 | **Red** wire in the middle slot, **White** wire closest slot to the firewall

5. **Feed** the fuse wire through the driver's door and connect to the Upgrade Box.

6. **Connect** the HPTNet Cable (gray OR black cable) to the Upgrade Box and your MPVI3 Device

7. **Plug** the MPVI3 into the OBDII port and turn the truck to the on position

    a. **Key Start** | turn the key to the accessory position

    b. **Button Start** | press the start button with your foot off the brake for 8-10 seconds

8. **Open** the VCM Editor (Beta) – If a Beta message does not appear, return to step 1

9. **Go** to the **HELP** tab and down to **RESYNC INTERFACE**

    a. if credits were added, they will sync to the MPVI3 at this time

10. Once the interface has been resynced, **select** the read vehicle icon

11. Select **READ** in the Vehicle Reader window

    a. **2020-2023 Vehicles** – Make sure to select do not read under the T93 TCM option

12. Select **READ** again to begin the process

13. An UPGRADE REQUIRED window will appear, **select OK**

14. The editor will then proceed to read the ECM, a second message will appear, **select OK**

15. **SAVE** this file to your desktop as STOCK READ

    a. This file will need to be emailed to info@runvse.com to receive your modified tune file

16. Once saved, you will be able to select the Write Vehicle icon

17. A licensing window will appear, **select** Show License Options

18. **Select SPECIFIC** and click **OK**

19. **Select YES** that you are sure you want to license the ECM

20. **BEFORE** selecting write, make sure the drop-down arrow says **WRITE ENTIRE**, then select **WRITE**

21. The initial write process will take about 9 minutes and an UNLOCK COMPLETED message will appear, **select OK**

    a. If it says FAILED, just select WRITE again and all will be fine

22. Another WRITE ENTIRE will then take place

23. When completed a message box will appear and you will then be able to disconnect the Upgrade Cable and replace the fuse. **(2017 – 2018 Trucks ONLY)**

    a. If you received the FAILED message in step 20, the complete message may not appear but will say Write Completed Successfully, you're still good to go!

24. **Stop here and wait until you've received the tune file from VSE before continuing.**

SETUP PHOTOS

Power Tune Flash Instructions

1. Once you receive the tune file back from VSE, **save or download** the file to your computer in a place where you can locate it

2. **Open** the VCM Editor (BETA)

3. **Plug** the MPVI in to the OBDII port and plug the USB cable in

4. Place the truck in the **ON position**

    a. **Key Start** | turn the key to the accessory position

    b. **Button Start** | press the start button with your foot off the brake for 8-10 seconds

5. **Open** the tune file by double clicking the file or going to **FILE, OPEN** and then locating the file

6. Once the file is open, the Write Vehicle will show

7. **Select the icon**, a VEHICLE WRITER window will open

8. Ensure it says WRITE ENTIRE in the drop-down menu, then select **WRITE**

    a. You will not need to license the vehicle again, as we already have during the unlock process

    b. If you receive the licensing menu, ensure the truck starts, if it does not, open the stock read you took during the unlock and write as if it's the power file.

9. This flash process will take 7-9 minutes to complete and say **WRITE COMPLETED**

10. You can now **start** the vehicle