

LWN INSTRUCTIONS SIMPLIFIED

Installation Guide

Read the complete guide before beginning. Keep removed hardware organized, follow all safety precautions, and verify all connections before operating the vehicle.



LWN Tuning Procedure When tuning LWN trucks, it's crucial to follow the steps outlined in this guide. Deviating from the prescribed order could lead to stubborn issues that might necessitate the use of specialized OEM tools or replacement components. This process must be started with a stock vehicle without active emissions faults. **DIC Reset Procedure** To successfully reset stored emissions data before tuning, it's important to complete a DPF regeneration cycle, or alternatively, use our DIC Reset procedure. The DIC Reset file will require licensing and programming to the vehicle in the same manner as the tune file. Choose your preferred method of programming (Auto Cal or Pass Through) and follow these steps:

1. Confirm the DEF system is completely connected, and the DEF tank is filled over 60% capacity.
2. Full Flash the DIC reset file onto the ECM.
3. Start the truck but keep it in the park position. Allow it to idle until it either shuts off on its own or for a minimum of 10 minutes, whichever occurs first.
4. When the DIC reset procedure has completed, the ignition can be turned off allowing you to

move to the next step. **Installing the Tune after DIC Reset Auto Cal Option:** 1: Plug in your Auto Cal to your OBD port. 2: Turn the ignition on, with the engine off. 3: On the Auto Cal, select "Tune Tool". 4: Select "Tuning". 5: Select "Program Full". 6: Select your tune file. 7. You will be prompted to license the vehicle. Select Yes. 8. Programming of the ECM will begin. **DO NOT INTERRUPT THE FLASH PROCESS.**

9. When the flash is complete, turn the ignition off and follow the onscreen instructions allowing the countdown to be completed before starting the vehicle. **Pass Through Option:**

1. Download the tune file from your email to your computers desktop or easy to find location.
2. Connect the device to your computer, and the device to the OBD port on the vehicle
3. Open V8 Scan and Tune. Select F3:Tune, then select "Open", and select your tune file.
4. With the tune file open, select F7: Full Flash.
5. Turn the ignition on, with the engine off.
6. Select "Activate License". It will ask if you want to permanently license the controller. Select "Yes". Once licensed, turn the ignition off and follow the on-screen prompts.
7. Turn the ignition on, with the engine off.
8. Select "Full Flash". It will begin the flash process. **DO NOT INTERRUPT THE FLASH Process.**
9. 9. When the flash is complete, turn the ignition off and follow the onscreen instructions allowing the countdown to be completed before starting the vehicle.
10. Repeat steps 3 through 9 for installing transmission tuning. Before proceeding to the disconnects, start, and idle the truck a minimum of 2 key cycles to ensure

there are no active DTCs or DIC warnings present after tuning. If so, please contact support for assistance before proceeding.

Disconnects Ensure the air inlet valve (throttle valve), the EGR system, and DEF system components are disconnected after tuning and only if no DIC warnings are present. Final Checks: Ensure that:

- The DIC reset was performed
- The tuned file has been full-flashed onto the truck
- The DEF system is unplugged
- The throttle valve and EGR are unplugged

Check reference images below for pictures of plugs which must be disconnected.



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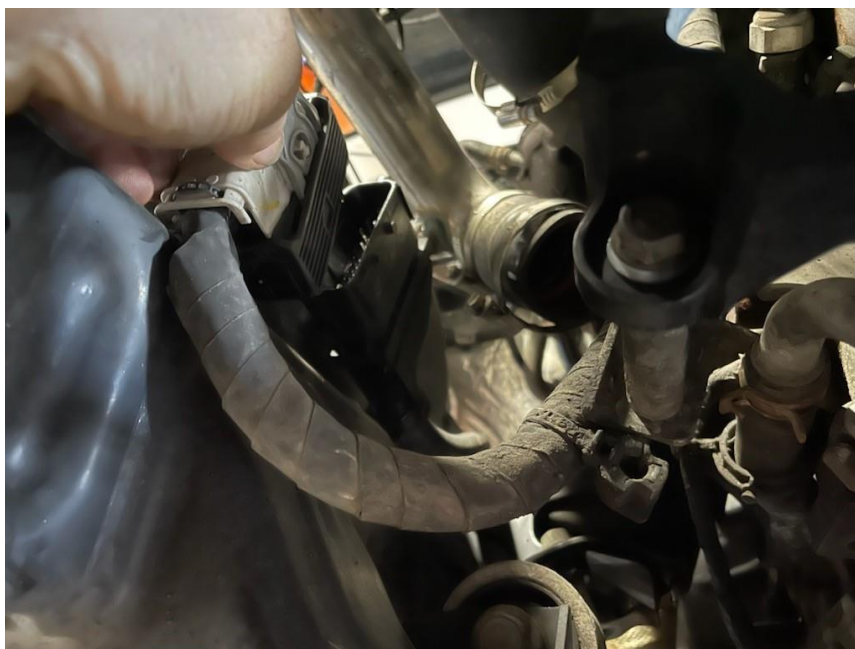
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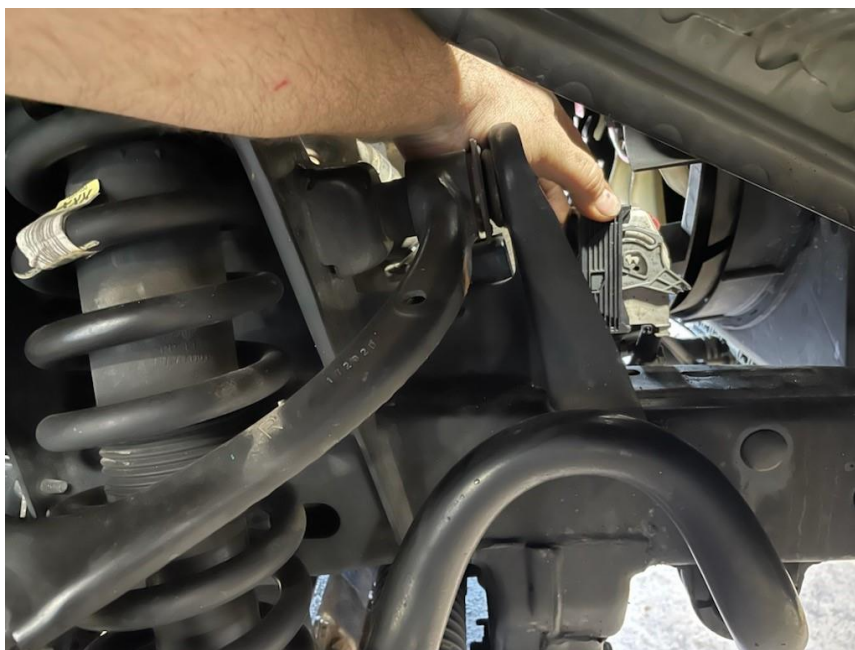
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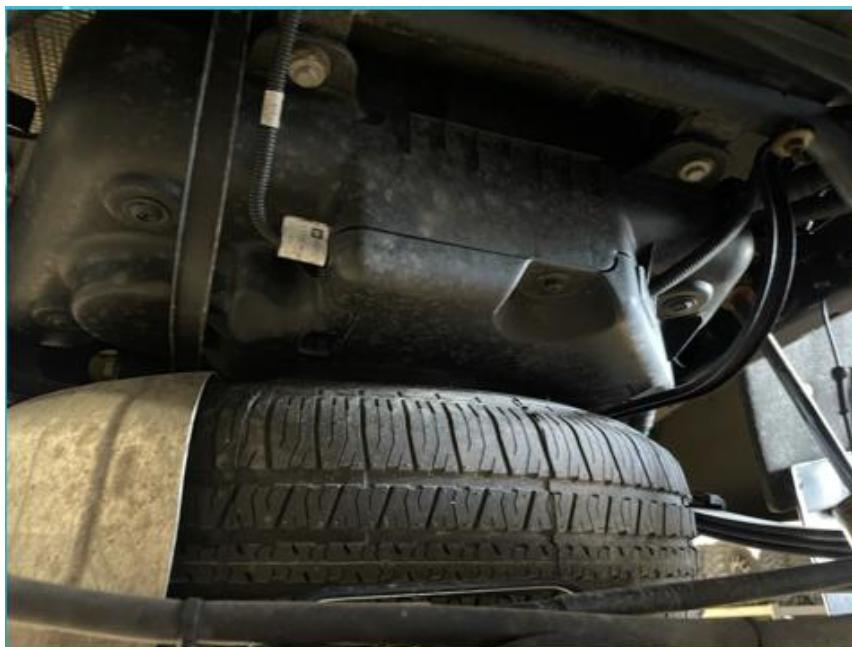
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