

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE PROCEEDING

Before following these instructions, be sure the vehicle's battery is charged, it may be necessary to connect a battery tender. It has been sitting for over 2 weeks. I would prefer the primary method to be used. However, do whichever method you(the mechanic) believe would have the highest probability of success.

1. Unmarry SCT tuner from old PCM

- a. Ensure key is off and removed
- b. Plug SCT x4 tuner into OBD II port
- c. Select **program vehicle**
- d. Press **Return To Stock**
- e. Follow on screen prompts
- f. **Note:** If an error appears, repeat the process, making sure to be diligent and timely with on screen prompts and turning on and off the key.
- g. Unplug SCT tuner

2. Install and Program New PCM

- a. Install new PCM
- b. Program it just like a factory vehicle(vin and security relearn)
- c. **Do Not Perform Crank Relearn or start vehicle**

3. Flash Custom Tune

- a. Ensure key is off and removed
- b. Plug SCT x4 into OBD II port
- c. Select **program vehicle**
- d. Press **continue**
- e. Follow any on screen prompts
- f. Select tune labeled **160525_V@_2008_H2_E2139**
- g. Follow on screen prompts
- h. **Note:** If an error appears, repeat the process, making sure to be diligent and timely with on screen prompts and turning on and off the key.
- i. Unplug SCT tuner (The vehicle may be started at this point)

4. Perform Crank Relearn Process

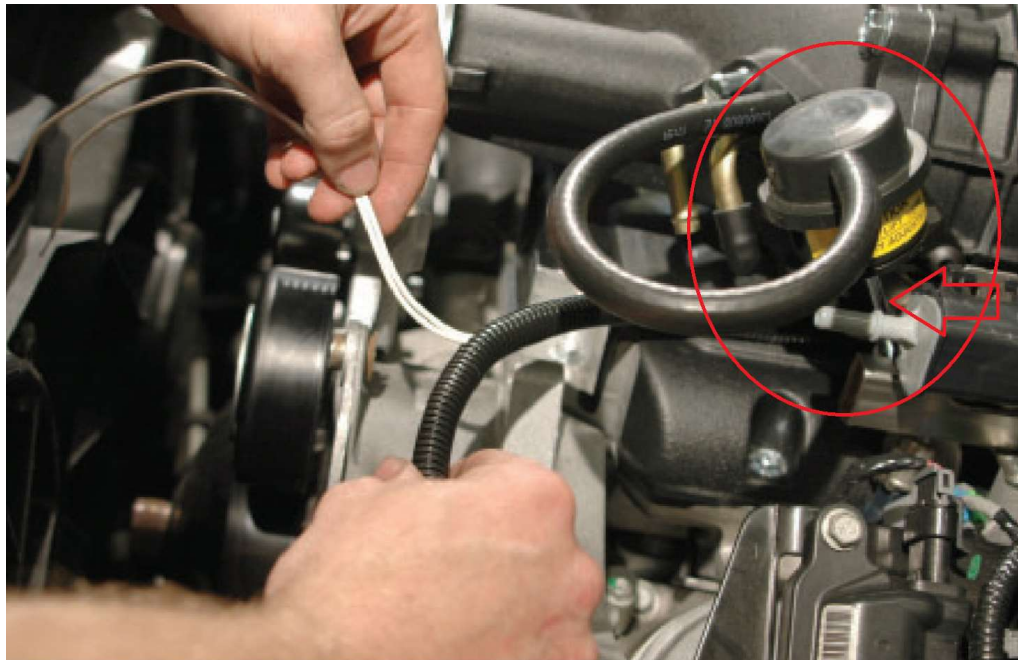
Alternative Method:

1. Unmarry SCT tuner from old PCM

- a. Ensure key is off and removed
- b. Plug SCT x4 tuner into OBD II port
- c. Select **program vehicle**
- d. Press **Return To Stock**
- e. Follow on screen prompts
- f. **Note:** If an error appears, repeat the process, making sure to be diligent and timely with on screen prompts and turning on and off the key. The vehicle should **NOT** be started at this time.
- g. Unplug SCT tuner

2. Bypass Supercharger

- a. The supercharger is equipped with a bypass valve on the drivers side of the supercharger. The valve, when opened, completely bypasses the supercharger rotors, therefore, allowing the engine to operate completely naturally aspirated. I am aware that the vacuum hose routing is different on my engine.



- b. The actuator is circled, and the arrow points to the linkage between the actuator and the valve itself. When the vehicle is idling or under a low throttle condition, engine vacuum operates the actuator and pulls the linkage upward, so the valve is in the open position.
- c. Use a zip tie or some method of securing the linkage in a way that the valve stays securely in the open position.

- d. The vehicle may be driven with the factory tune and programming in this state as this will fully bypass the supercharger, and there are no aftermarket parts in the fuel system.

3. Install and Program the New PCM

- a. Install and program the new PCM as if it was an ordinary, factory 2008 H2.
- b. Do **NOT** remove the zip-tie from the bypass valve. I will pick up the vehicle like this. Again, it can be driven with factory programming as long as the bypass valve is zip-tied open.

Additional information:

- **Do NOT install the new PCM** until the drivers side bank 1 sensor 1 heater ground is properly protected and secured to prevent future electrical issues or shorts.
- The powertrain is completely stock other than the supercharger itself. This includes, cam, fuel pump, injectors, and spark plugs.
- **Do not hesitate to call me with questions, clarifications, or problems. I will stop what I'm doing and drive over immediately if necessary. - Sorry hummerforum im not putting my number here lol.**
- I greatly appreciate your time, patience, and help.

Supercharger Instruction Manual:

<https://drive.google.com/file/d/1i-7EeCQGgFIPP0NOhddz-DdsDDdYevJD/view?usp=sharing>