

What is a CASE relearn?

CASE (Crankshaft Angle Sensor Error relearn) is an advanced way for the truck to detect misfires, using the crankshaft and camshaft position sensors. When a computer is completely rewritten with the latest GM calibration, the CASE information is lost. To relearn that information, a dealership or a shop with a Tech II scan tool must perform the procedure, which takes around 5-10 minutes. **The only time you need a CASE relearn is when using our core program (option #2).** The check engine light for the CASE relearn is disabled on our send-out PCMs, so that it will not illuminate. You will still need to perform the relearn.

Security relearn procedure:

After installing the PCM, most of the time you will need to perform a Security Relearn Procedure. This can be done at your home and requires no tools. **If your vehicle starts after installing the PCM, you do NOT need to do it.**

1. Attempt to start the truck by turning the key to the Start/Run position. Try to crank the vehicle.
2. Observe that the vehicle fails to start and the security light is illuminated.
3. Release key to the ON/RUN position (not the ACC position or OFF)
4. Allow the vehicle to sit with key in the ON/RUN position for no less than 11 minutes. Security light will turn off after this.
5. When the light goes off, turn key to OFF position and allow the vehicle to remain in the OFF position for no less than 30 seconds.
6. Repeat #1-#5 for four cycles or until vehicle starts.

NOTE: Since this is a fairly long procedure (35 minutes) I would limit all electrical sources, such as shutting off headlights and AC fans to prevent discharge of battery. It is safe to wait longer than the allotted times above, but it is not safe to wait less.

Got questions?

Call us at 704-307-4227 or email: Alvin@pcmforless.com

Address for sending in PCMs/loaners/cores:

PCMforless
106 Performance Rd
Mooresville, NC 28115

We accept Paypal, credit cards over the phone, and checks/money orders made out to Alvin Anderson.



Customized programming for your:

Trailblazer SS + 5.3L



Sold to: _____

Current tuning options:

- 1. Send in your PCM and TCM for reflashing, then reinstall. (No CASE relearn or security relearn needed).**
- 2. Dashhawk Loaner program – We send a set of tuned PCM & TCMs and a dashhawk to do your own CASE relearn with. You can then return the dashhawk & cores for a refund.**
- 3. Core program – purchase a tuned set of cores from us. CASE relearn is necessary. You have the option of sending in your stock PCM/TCM for your core refund.**

Removal and Installation of your PCM/TCM:

In the Trailblazer SS and 5.3L, the PCM is located on the driver's side of the engine, on the left side of the battery. It is a good safety precaution to disconnect your battery first. There is a rectangular black cover, depress the tabs on either side of it and pull up to remove it. Underneath, the PCM and TCM share one bracket.



After removing the black cover, remove the TCM (left hand side of bracket) by pressing the tab on the connector in, and pulling the handle towards the front of the connector. It then snaps out of the bracket. To remove the PCM (right hand side of bracket), pull the red locking tabs forward, depress the tab, and pull the handle towards the front of the connector. It then snaps out of the bracket as well.