

What is a CASE relearn?

CASE (Crankshaft Angle Sensor Error relearn) is an advanced way for the car 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 #1).** The check engine light for the CASE relearn is disabled on our loaner PCMs, so that it will not illuminate. This does not hurt performance nor disrupt driving in your car.

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 of NC, INC
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:

Solstice/Sky



Sold to: _____

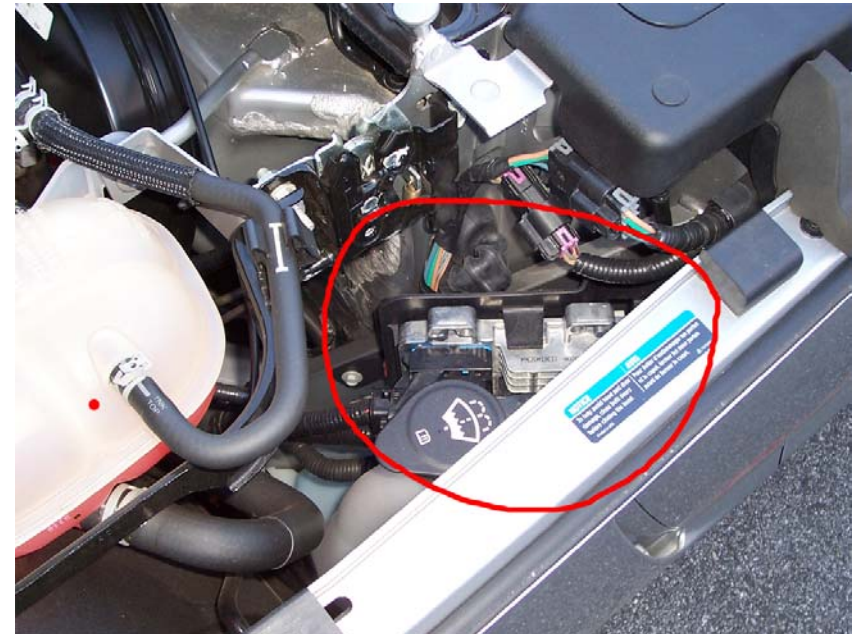
You have chosen:

- 1. Core exchange:** We send to you a new computer, flashed with a tune custom to your vehicle. You install the PCM, send back your stock one, and receive your core charge of \$125 back. You may also opt to keep your stock modules, and we will keep your core charge.
- 2. Send in your PCM:** You send your PCM into us, we tune it and reflash it, and return it to you.
- 3. Dashhawk Loaner program:** We send a tuned PCM and a dashhawk to do your own CASE relearn with. You can then return the dashhawk & cores for a refund.

To receive credit for core/loaner charges, it must be postmarked within 7 days of receiving your custom tuned computer.

Removal and Installation of your PCM:

In the Solstice and Sky, the PCM is located in the driver's side fender well, and is visible upon opening the hood. It is a small silver box, roughly 7"x7" an about an inch thick. We recommend disconnecting your battery during removal and installation to be safe!



To remove the PCM:

1. Disconnect the three connectors that go into the PCM. There may be a safety lock tab that needs to be pulled out first. Across the front of each plug you will see a gray lever. Push down on the black tab beneath it, then pull it all the way to the top of the plug and pull the plug out.
2. Push up on the two black tabs at the top to release the PCM.

To reinstall:

1. Insert PCM back into black plastic holder, snap into place. Reconnect the three connectors.
2. Perform security relearn (instructions on back page) only if vehicle does not start.
3. If using option #1, have CASE relearn performed as soon as it is convenient.