



PROFLEX Installation Instructions for Commander and Commander PRO

Thank you for purchasing a PROFLEX adaptive flex fuel system from Advanced Fuel Dynamics. Your system includes the following components:

1. Commander Module
2. Fuel Content Sensor
3. Fuel Lines and/or Connectors
4. Main Injector Harness

Installation of your PROFLEX system is straightforward and should take you about an hour.

1. Unplug the OE injector harness from your injectors.
2. Lay out new harness with Commander plug on battery side of engine bay. Injector leads connect as laid out longest to shortest
3. Install new harness injector leads between injectors and vehicle harness. Once installed the harness leads can be tucked in below the fuel rail for a clean looking installation. Be sure connectors are fully seated. You should hear an audible click when the connectors are fully engaged. **NOTE: Do not pull on wires, this can damage your harness. Only pull or push on connectors.**

For Installations with Standard Sensor (red caps):

4. Find the fuel line that runs from your bulkhead (firewall) to your fuel rail. Disconnect this line. A quick disconnect fuel line tool will make this much easier.

Caution: Your fuel line may be under pressure and may leak or spray some fuel when disconnected. Use eye protection and a rag to protect yourself and your engine components from stray fuel.

Using the supplied fuel line(s), install the fuel content sensor. Connections are quick connect and simply click together. Be sure connectors are fully seated!

Plug fuel sensor harness lead into the fuel sensor.

Special NOTE for some BMWs: If you Commander system includes a fuel line conversion adapter fitting, disconnect the fuel hose at the bulkhead fitting, insert the conversion adapter into the BMW fuel line and insert the fuel sensor into the adapter fitting. Use the supplied hose to connect the other side of the fuel sensor to the bulkhead fitting.

For installations with billet ESENSE sensor:

The ESENSE sensor is installed directly in-between your OE fuel line and your fuel rail, so you don't need extra fuel lines. Release your OE fuel line from the primary fuel rail, connect the female fitting on the ESENSE to your fuel rail fitting and connect the OE fuel line to the male fitting on the other side of the sensor. Attach the short wiring harness into the connector on the ESENSE sensor and plug the other end into the sensor connector on the main wiring harness.

For BMW and 3.6 V6 Mopars only, detach the fuel line at the firewall and attach the female fitting on the sensor to your bulkhead fitting then attach the OE fuel line to the other side of the sensor.

5. Locate the main ground under your hood. The ground is very important, so be sure to clean area well before grounding wire. Install the ground wire (eyelet end) on the main ground bolt and replace bolt. Makes sure your existing ground wires remain installed.
6. Once the harness and fuel sensor are fully installed, start the vehicle. Vehicle should start and operate normally. Repeat 2 - 3 times to verify everything is plugged in properly. Any issues with idle or a check engine light indicate a loose connection. Recheck your connections and start again.
7. When you are sure all connections are made correctly install PROFLEX Commander module away from heat and weather as much as possible. We recommend mounting the PROFLEX Commander with the plug facing down to resist moisture intrusion. The Commander can be affixed with the 3M 2-sided adhesive strip or the zip tie anchor included in your kit.
8. Plug harness into PROFLEX Commander unit and start your vehicle.
9. Installation is complete. Fill up with E85 and enjoy!

To ensure the highest quality, all PROFLEX Commanders and components are tested before packaging. If you experience any issues with your system, please contact us at info@afd-usa.com or 866-902-FUEL (3835).

Thank you for your purchase and we always appreciate pictures/videos of our customer's cars!