

Pressure Sensor Option (PSO) for the Gen-II (SAIS) Bypass Kit

Installation Instructions - Rev. 1



Figure 1 – Pressure Sensor Option (PSO) - Purchased Separately

When installing a Gen-II kit, the factory air switching valve pressure sensors or the PSOs are the only remaining part of the secondary air injection system that are still required by the ECM. In the case of damaged pressure sensors in the air switching valves the PSO(s) will take their place without having remove the intake manifold and replace the air switching valves. The PSOs are also used if wanting to remove the air switching valves entirely from the vehicle.

The sensors that come with the PSOs are the same sensors that are built into the factory air switching valves (ASVs) but are in a different package. The PSO does not have its own mounting location and will be secured with zip-ties or can be placed under a non-critical mounting bolt. A bolt like one that holds down a vacuum line or brake line bracket on the top or back of the intake manifold works well. Ideally the PSO sensor will be secured with the vacuum nipple pointing downward. The vacuum nipple of the pressure sensor needs to remain open to the atmosphere. However, a small piece of vacuum line can be placed on the nipple if left open to help keep water and debris out of the sensor.

If you contacted us before ordering, we will pre-configure your PSOs by plugging them into the appropriate Gen-II ASV harness connector. If you have PSO(s) that were not preconfigured then connect them according to a), b) or c) below.

- a) For codes (P2431, P2432, P2433, P2440, P2441, P2444, P2445) that cannot be cleared or come back on after being cleared plug the PSO into the female Bank 1 – driver side connector of the Gen-II ASV harness. There will now be no connection made to the Bank 1 air switching valve.
- b) For codes (P2436, P2437, P2438, P2442, P2443, P2446, P247) that cannot be cleared or come back on after being cleared plug the PSO into the female Bank 2 – driver side connector of the Gen-II ASV harness. There will now be no connection made to the Bank 2 air switching valve.
- c) If you purchased two PSOs simply connect one to each side of the Gen-II ASV harness and there will be no connections to either of the air switching valves.