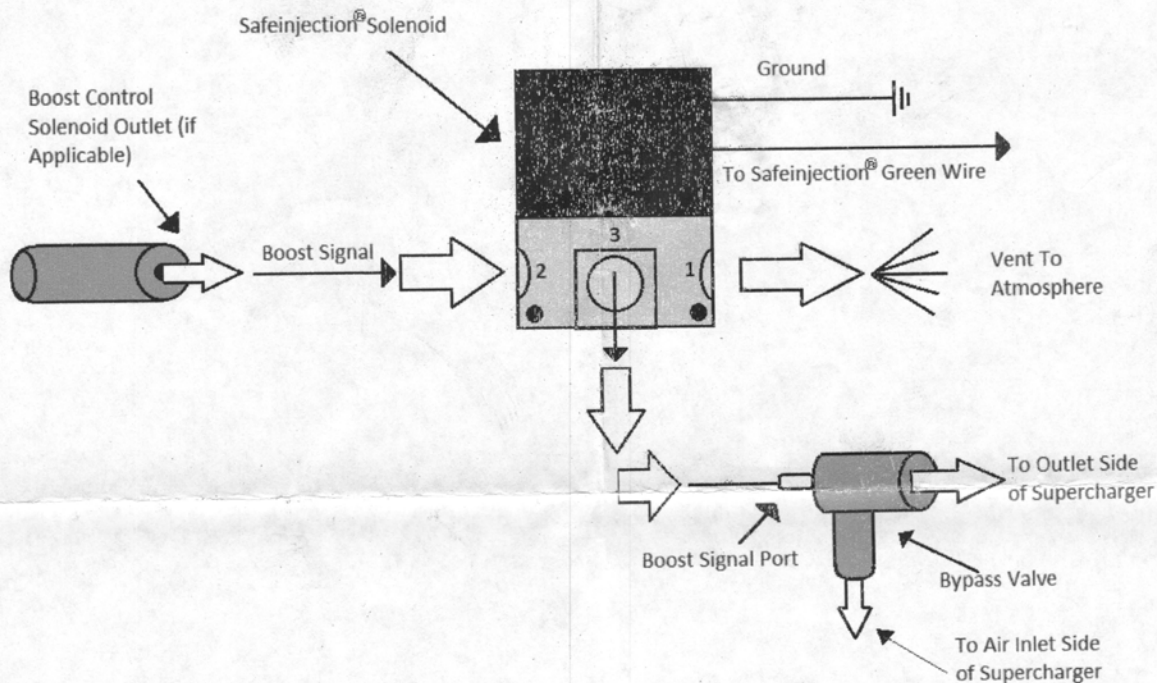


## SafelInjection® Supercharger Bypass Solenoid

#30300

### Description:

This solenoid allows the SafelInjection® system to decrease the boost pressure of a supercharged vehicle in the event of a low flow situation. When the SafelInjection® module detects a low flow situation, a 12V signal is sent on the green wire to one of the black wires of the solenoid, redirecting boost pressure. This prevents boost pressure from reaching the bypass, causing it to open and reduce boost pressure to the engine. Please refer to the diagram below for installation.



Under normal conditions the solenoid allows pressure and airflow to pass through from the Number 2 port to the Number 3 port. In the event that a 12V signal from the SafelInjection® module reaches the solenoid, it will redirect pressure and flow to the Number 1 port. This keeps boost pressure from reaching the bypass and in turn allows the bypass to open, reducing boost pressure to the engine.

### Mechanical Installation:

Use the included hose barbs in the ports of the solenoid. It is not necessary to install a hose barb on the Number 1 port of the solenoid, as it will vent pressure to atmosphere in the event of a low flow situation. Use a small amount of E6000 GOOP® (available at any parts or crafts store) sealant on the threads to prevent pressure leaks. The boost signal goes to the Number 2 port. Connect the Number 3 port to the bypass valve pressure sensor port. If the vehicle is equipped with a boost control solenoid as well as a bypass, connect the outlet of that solenoid to the Number 2 port. Connect the Number 3 port to the bypass valve as show above.

### Electrical Installation:

The SafelInjection® solenoid has two black wires. One goes to ground, and the other connects to the green wire from the SafelInjection® harness. DO NOT connect the solenoid to the green wire from the control unit harness. Either black wire can go to ground or the green SafelInjection® wire.