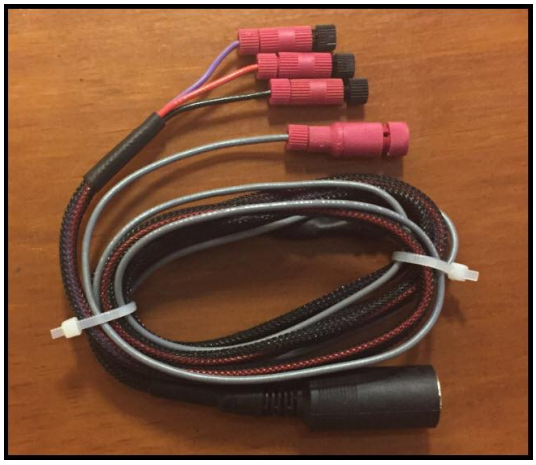
FuelBot2.0 Installation

Thank you for purchasing FuelBot2.0! Inside the shipping box you will find:

- FuelBot2.0 Unit

- FuelBot2.0 Harness



- Parts for Velcro adhesive mount or Screw mount options

FuelBot2.0 is compatible with vehicles that are fuel injected and have digital speedometer sensors only. FuelBot2.0 is not compatible with carbureted vehicles or vehicles that have mechanical cable driven speedometers.

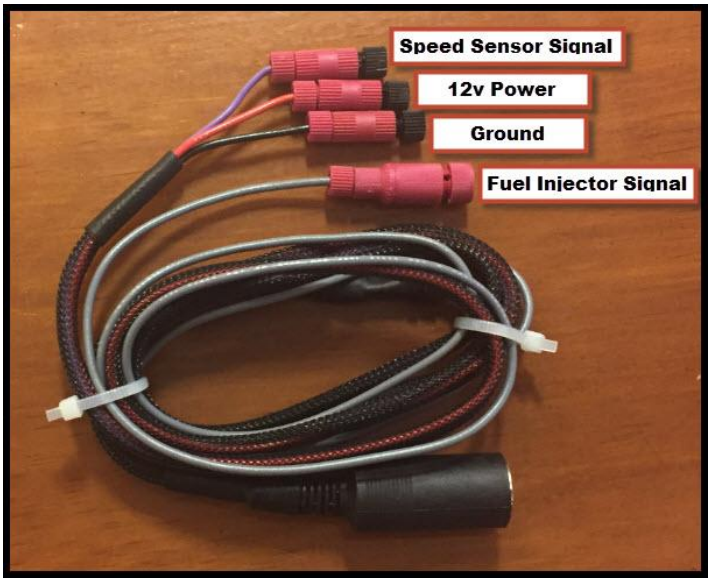
FuelBot2.0 installation requires interfacing to the vehicle's wiring system. It is advised that fitting be performed by someone with knowledge of motorcycle/car electrics.

It is best to use the vehicle's wiring diagram and service manual to identify the proper wires/colors/locations. However, if these documents are not readily available a voltmeter can be used to identify the wire connections.

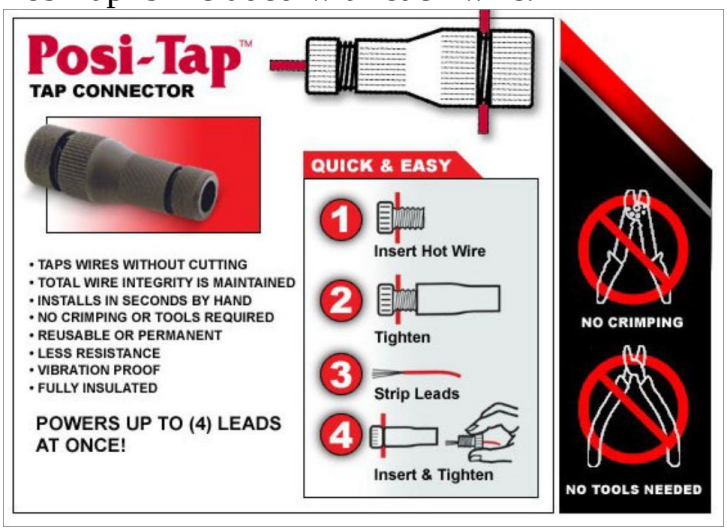
Four connections are required to install FuelBot2.0

1. BLACK: Connect to vehicle Ground.
2. RED: Connect to vehicle 12v power.
3. VIOLET: Connect to vehicle Speed sensor wire.
4. GRAY: Connect to vehicle Fuel injector wire.

FuelBot Harness Connections



The FuelBot2.0 harness connects to the vehicle's wiring using PosiTap connectors. PosiTaps are easy to install and make for water-tight reversible connections. One PosiTap is included with each wire.



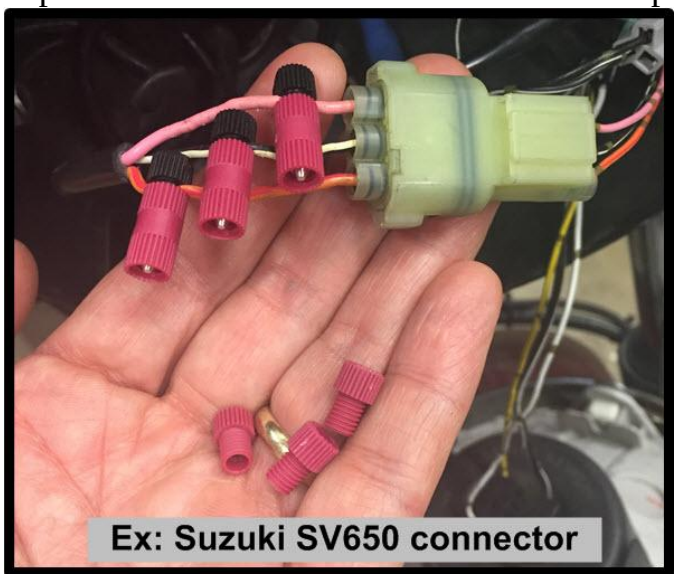
Step1: Connect FuelBot2.0 Black, Red, and Violet to the vehicle's speed sensor connector.

A. Locate the vehicle's speed sensor connector. An easy way to find the speed sensor connector is first find the speed sensor itself then follow the wires back to the connector.

Motorcycle speed sensors are usually located at the front wheel, but the sensor may also be located at the front sprocket or transmission case. On shaft drive motorcycles the speed sensor may be located at the rear wheel. Automotive speed sensors are usually located near the transmission output shaft.

If unable to locate the speed sensor connector please consult your vehicle's service manual. Vehicle service manuals, connector location, and wire color information may also be available on-line or on an internet forum dedicated to your vehicle.

B. Remove the PosiTaps from the FuelBot wires then attach one PosiTap to each of the three wires at the speed sensor connector as shown. Unscrew the red PosiTap cap to expose the metal contacts inside the PosiTaps.



C. With the vehicle turned On, probe each of the PosiTaps using a voltmeter.

1. One wire will be constant 0 volts. This is the ground wire. Connect **FuelBot Black** to this wire.

2. One wire will be constant 12 volts. This is the 12v power wire. Connect **FuelBot2.0 Red** to this wire. Some vehicles may have slightly lower sensor power voltage; that is OK but voltage here should be at least 10v.

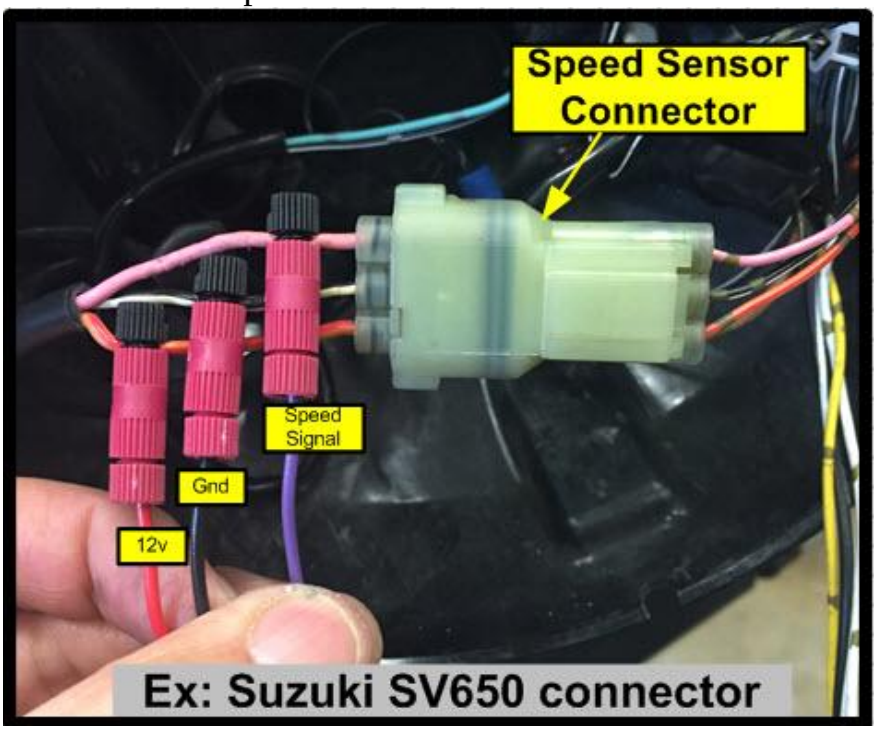
3. The last wire will the speed sensor signal wire. Voltage on this wire will toggle between low (0v) and high (4v thru 12v range depending on vehicle type) as the wheel spins. Connect **FuelBot2.0 Violet** to this wire.

D. Final check:
1. With the Black and Red FuelBot2.0 wires now connected, the unit should power-up when the ignition key is turned On. This verifies the 12v power wire and the ground wire are connected properly and are making good contact.

2. The WheelTc number in FuelBot2.0 Screen4 will increment when the wheel spins. This verifies the speed sensor signal (Violet wire) is properly connected.

If the FuelBot2.0 does not power-up or if the WheelTc number in Screen4 does not increment when the wheel spins, go back and recheck the connections. The FuelBot2.0 has built in protection (reverse polarity) so do not worry if any wires were connected improperly. Simply correct the connections and retest.

Here is an example of final connection to a Suzuki SV650.



Step2: Connect FuelBot2.0 GRAY wire to the vehicle's fuel injector signal.

A) Locate the fuel injector on your vehicle. The fuel injector(s) will be located on the engine intake manifold or throttle body. FuelBot2.0 GRAY connects to a *single* fuel injector only. It does not matter which one; pick the injector closest or easiest to access.

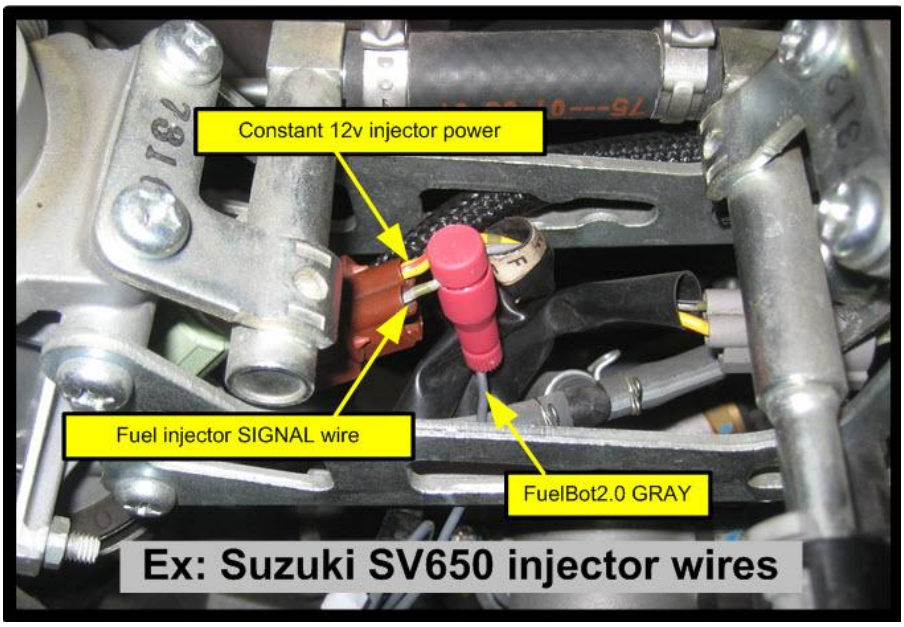
B) The fuel injector will have two wires. One wire will be constant 12v injector power, the other wire is the fuel injector SIGNAL wire. Connect the FuelBot2.0 Gray wire to the injector SIGNAL wire. To determine which wire is the Signal wire, consult your vehicle's wiring diagram, or:

1. Set your multitmeter to DC voltage scale.
2. Start the engine.
3. With engine running, probe each of the two wires. To make connection either back-probe the connector, or clip the voltmeter lead to a pin and gently push through the wire insulation.
4. The wire with the **lower** DC voltage is the injector SIGNAL wire. Connect **FuelBot2.0 GRAY** to this wire. The voltage difference may be small. You may see, like, 13.8v on the injector power wire, and 13.5v on the injector signal wire but the difference will be large enough to clearly identify.

C) Final check. Turn the vehicle on and start the engine. Go to FuelBot2.0 Screen4. If the injector wire connection is correct, the Inj_mS number will increment.

If the Inj_mS number in Screen4 does not count when the engine is running, go back and recheck the PosiTap connection. If the connection is solid, verify FuelBot Gray is connected to the injector signal wire, not the injector power wire.

Here is an example of the FuelBot2.0 GRAY wire connected to the fuel injector wire connector on a Suzuki SV650.



Step 3: Mount the FuelBot2.0

There are two options for mounting FuelBot2.0:

Option1: Mount FuelBot2.0 using the supplied Velcro.

Option2: Mount FuelBot2.0 using the supplied screws (size 6-32).

A. Decide where to mount the FuelBot2.0 then use the supplied drill template to align and mark the holes. Drill the holes using a 9/64" drill bit.

B. Remove the existing screws from the back of the FuelBot2.0 unit.

C. Carefully measure the thickness of the mounting surface then use the original short screws as a length reference to trim the extra long mounting screws to proper length. *Make sure the mounting screws do not thread too far into the FuelBot2.0 case otherwise the PC board may be damaged.* Apply pipe dope to screw threads for watertight seal.

Done!