



Singtech ECO Fuel Saver Instruction Manual

**Accelerator Position Sensor
(Diesel Euro 3 and above)**

Installation Guide for Diesel Vehicles with Accelerator Positioning Sensor (APS)

The Singtech ECO Fuel Saver only requires a connection to the APS sensor and a power source to operate.

Step 1: APS Sensor Connection

1. A voltmeter is needed to identify the APS signal wire.
Set the voltmeter to DC-12V.
2. Switch the vehicle to ignition ON.
Do not start the engine.



3. The APS sensor wire is located around the accelerator pedal.
Using the voltmeter, locate the signal wire with a voltage range of
 - a. 0.20V – 1.00V with throttle closed
 - b. Less than 5.00V with throttle open

If there are 2 similar wires, select the wire with the wider voltage range.

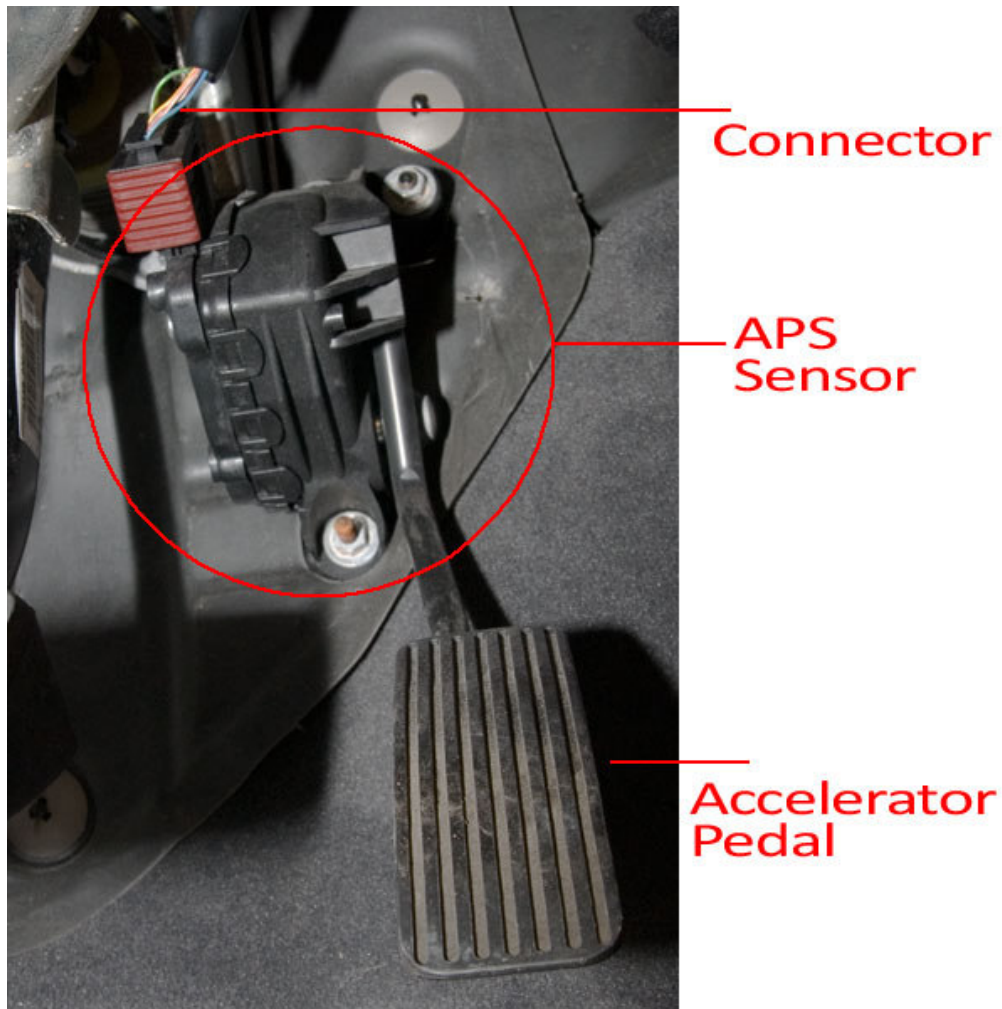
Example

Wire A- between 0.66V – 2.10V = 1.44V

Wire B- between 0.96V – 3.93V = 2.97V

Choose Wire B as it has wider range.

4. Locate the socket above the accelerator pedal and the APS. There should be 6 to 8 wires connecting to the APS depending on the vehicle's make.
5. Connect the blue wire of the harness unit to the APS signal wire with the supplied connector.



Step 2: Power Source Connection

1. Connect Red Wire of harness unit to the Ignition ON wire.
2. Connect Black Wire to grounding point.
3. Connect the harness to the ECO Fuel Saver Control Unit and secure the unit with the supplied Velcro to a location away from heat, moisture and vibration.

Step 3: ECO Fuel Saver Control Unit Set Up

1. Start the vehicle engine.
2. Switch on the control unit.
The Power LED should light up.
3. Check the voltage reading on the display.
 - a. If voltage reading is 0.66V – 0.77V
APS signal wire connection is incorrect.
4. If everything is correct, record the highest voltage reading shown on the control unit while the vehicle is idling (stationary).
5. Press and hold the programming button for 2 – 3 seconds. Once the display is blinking, you are in the program menu. The blinking numbers are your current Fuel Saving (FS) Point.
6. Set the FS point to 0.30V higher than the highest voltage reading recorded earlier.

Example

Highest recorded voltage when vehicle is idling is 0.70V, FS point should be 1.00V

7. Press the programming button again to set the FS point.
8. Test the Eco Fuel Saver after setting the FS point by going for a test drive.
9. Once the voltage reading reaches the FS point, the active indicator should light up. This means ECO Fuel Saver is working.



- Do Not Disconnect the control unit from the power source while it is in operation.
- Eco Fuel Saver has a warm up time of 3 minutes after ignition ON.
- **If you feel that there is any loss of power/response while driving, increase the FS point by 0.05V in increments until performance is back to normal.**