Installation Instructions

The factory Secondary Air Injection System (SAIS) pressure sensor for this vehicle is located underneath the intake manifold and bolted to the main SAIS Air Switching Valve. When this sensor or wiring has been damaged it cannot be accessed for replacement or testing without removing the intake manifold. Because the SAIS will no longer operate with the bypass kit installed the sensor only needs to reference atmospheric pressure. When installing as an addon to a SAIS Bypassed Kit the factory pressure sensor can be replaced by wiring a new sensor directly into the ECM while cutting the old sensor loose without having to remove the intake manifold. When installed underneath the dash the sensor is protected from the environment and the vacuum tube nipple can remain open (without connection). It is very important that these connections are done well and do not create any added resistance.

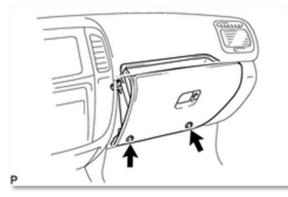


Figure 1 – Remove Glove Box Door

1) Access the ECM located behind the passenger side dash.

2) Remove the 2 screws and remove the Glove Box Compartment Door. There is one screw and 3 clips holding it up. See Figure 2.

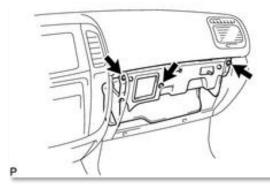


Figure 2 – Remove No.2 Finish Panel

3) Remove the3 screws holding the No. 2 Finish Panel and remove the panel. This will give you access to the ECM.

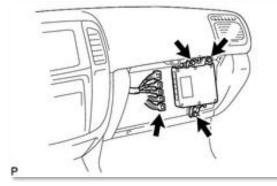


Figure 3 – Access the ECM

4) Remove the Glove Box Compartment, there are 2 clips and 4 screws holding it to the dash. This will give you access to the ECM. See Figure 4.

- 5) Disconnect Connector E5 as identified in Figure 5.
- 6) Remove any wrap or cover from the wire bundle of Connector E5 to make it easier to separate and work on the individual wires.
- 7) Strip a small section of insulation from the Blue/Red wire of Pin 23 without cutting the wire. Strip the end of the Red Pressure Sensor Replacement wire and twist around the exposed section of the Blue/Red wire. Solder together to create a tap splice and insulate with electrical tape.
- 8) Cut the White/Blue Wire of Pin 32 a couple of inches away from the connector. Strip the ends of the cut White/Blue wire from connector E5 and the White wire of the replacement pressure sensor. Twist and solder these two wires together to create a butt splice. Insulate the connection with electrical tape.
- 9) Insulate the cut end of the White/Blue wire that is coming from the wire bundle (damaged factory pressure sensor) with electrical tape and leave disconnected. This effectively disconnects the bad pressure sensor under the intake manifold.
- Strip a small section of insulation from the Brown wire of Pin 28 without cutting the wire. Strip the end of the Black Pressure Sensor Replacement wire and wrap around the exposed section of the Brown wire. Solder together to create a tap splice and insulate with electrical tape.

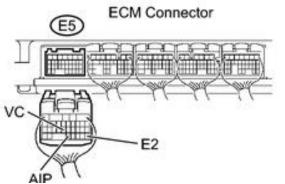


Figure 4 - ECM Connections - Connector E5

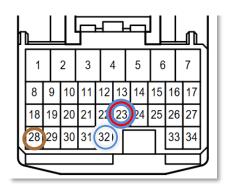


Figure 3 –Looking into the terminals of connector E5 Wire colors shown are coming out the back of the connector

- 11) Secure the sensor underneath the dash with electrical tape or zip ties. The vacuum nipple on the sensor is to remain open and unconnected.
- 12) Reconnect E5 to the ECM, clear the trouble codes and make sure the problem is resolved before reinstalling the glovebox.

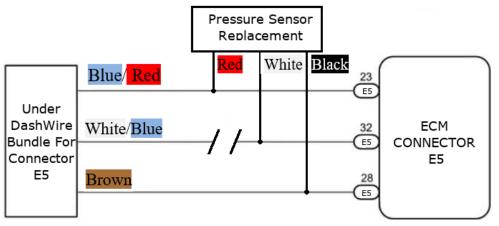


Figure 4 - Pressure Sensor Connection Diagram