

## Hewitt Technologies Inc.

### 2007-2012 Toyota/Lexus Pressure Sensor Replacement Installation Instructions

(This harness is used in conjunction with a SAIS Bypass Kit as a work around for a bad SAIS Pressure Sensor.)

1) Locate the SAIS Air Switching Valves: for all 5.7L engines the valves are located at the rear of the engine valley and slightly under the intake manifold. All 4.7L (except the 07-09 Tundra) the Air Switching Valves (ASV) are located at the back of the engine block along the fire wall and for the 07-09 Tundra, they are located at on top of the valve cover. For the 4.6L the ASV is located under the engine cover on either side of the engine block. For the 4.0L engines, the ASV is located to the left between the engine and the air filter housing.

2) Determine which pressure sensor is the damaged pressure sensor by which trouble code you are getting. Please see them listed below:

P2431 Air Flow/Pressure Sensor Circuit Range/Performance Bank 1

P2432 Air Flow/ Pressure Sensor Circuit Low Bank 1

P2433 Air Flow/Pressure Sensor Circuit High Bank 1

P2436 Air Flow/Pressure Sensor Circuit Range/Performance Bank 2

P2437 Air Flow/Pressure Sensor Circuit Low Bank 2

P2438 Air Flow/Pressure Sensor Circuit High Bank 2

Depending on the layout of your ASV, they may be side by side or in front of each other. If they are side by side, Bank 1 is on the driver side and Bank 2 is on the passenger side. If they are in front of one another, Bank 1 is towards the rear of the vehicle and Bank 2 is towards the front of the vehicle.

3) After determining which pressure sensor is the damaged one, remove the connector from the pressure sensor and plug the connector from the Pressure Sensor Replacement Harness onto the damaged pressure sensor and plug the connector removed from the vehicle into the male connector on the harness. When doing this, be sure you hear the connectors click into place and are firmly seated into the connectors.

**NOTE:** You may notice that the pressure sensor attached to the harness has 2 mounting holes, for this harness design, you will not be bolting the pressure sensor in. Also, not all air switching valve housings have a vacuum line going to the pressure sensor. If yours does, disconnect the small vacuum line from the top of the air switching valve that is closest to the PSR's pressure sensor and connect it to the pressure sensor's vacuum nipple. If yours does not, install just as is on the harness.

4) Once installed, clear your trouble codes with an OBDII scanner.