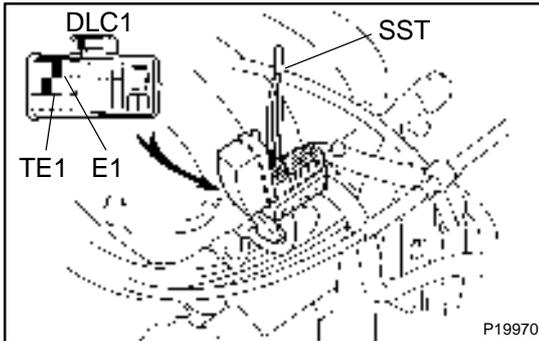


# IDLE AIR CONTROL (IAC) VALVE ON-VEHICLE INSPECTION

SF04Z-04

## 1. INSPECT IAC VALVE OPERATION

- (a) Initial conditions:
- Engine at normal operating temperature
  - Idle speed checked correctly
  - Transmission in neutral position
  - A/C switch OFF



- (b) Using SST, connect terminals TE1 and E1 of the DLC1.  
SST 09843-18020
- (c) After engine speed is kept at approx. 1,000 rpm for 5 seconds, check that it returns to the idle speed.

If the engine speed operation is not as specified, check the IAC valve, wiring and ECM.

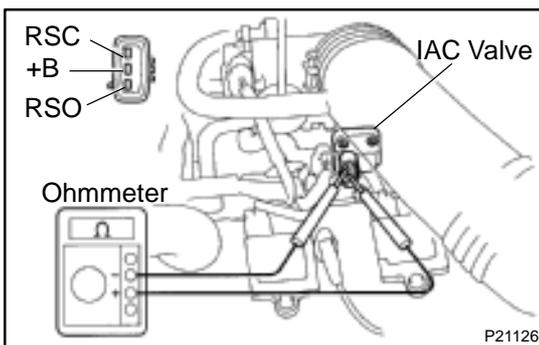
- (d) Remove the SST from the DLC1.  
SST 09843-18020

## 2. INSPECT IAC VALVE RESISTANCE

### NOTICE:

”Cold” and ”Hot” in the following sentences express the temperature of the coils themselves. ”Cold” is from  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ) to  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) and ”Hot” is from  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ) to  $100^{\circ}\text{C}$  ( $212^{\circ}\text{F}$ ).

- (a) Disconnect the IAC valve connector.



- (b) Using an ohmmeter, measure the resistance between terminal +B and other terminals (RSC, RSO).

### Resistance:

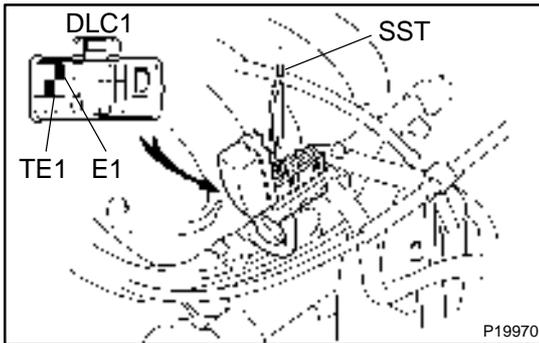
Cold	17.0 – 25.0 $\Omega$
Hot	21.5 – 29.5 $\Omega$

If the resistance is not as specified, replace the IAC valve.

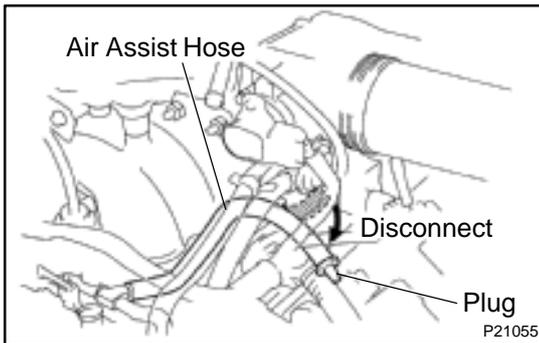
- (c) Reconnect the IAC valve connector.

## 3. INSPECT AIR ASSIST SYSTEM

- (a) Initial conditions:
- Engine at normal operating temperature
  - Idle speed checked correctly
  - Transmission in neutral position
  - A/C switch OFF



- (b) Using SST, connect terminals TE1 and E1 of the DLC1.  
SST 09843-18020
- (c) After the engine speed is kept at 900 – 1,300 rpm for 10 seconds, check that it returns to the idle speed.
- (d) Stop the engine.



- (e) Disconnect the air assist hose from the IAC valve, and plug it.
- (f) Start the engine and check that the idle speed reaches 500 rpm or below (the engine may stall).  
If the idle does not reach 500 rpm or below, check for a leak between the air assist hoses, pipe and injectors.
- (g) Remove the SST from the DLC1.  
SST 09843-18020
- (h) Reconnect the air assist hose to the IAC valve.