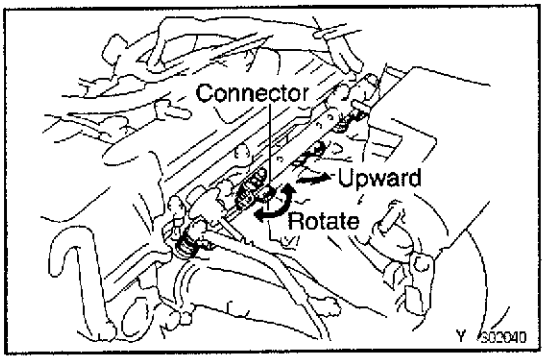
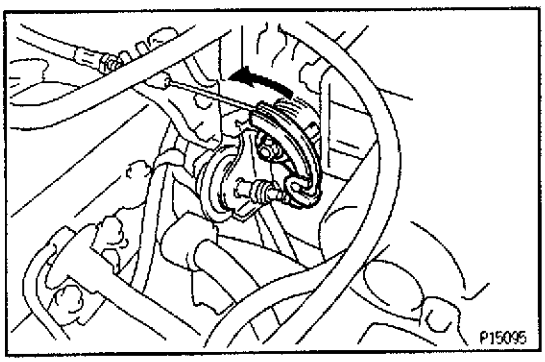



(d) Check that the injectors rotate smoothly.
HINT: If injectors do not rotate smoothly, the probable cause is incorrect installation of O–rings. Replace the O–rings.
(e) Position the injector connector upward.
(f) Tighten the 2 bolts holding the delivery pipe to the cylinder head.
**Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)**
(g) Connect the fuel inlet pipe to the delivery pipe with 2 new gaskets and the union bolt.
**Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)**
(h) Connect the fuel return hose to the fuel pressure regulator.
(i) Connect the vacuum sensing hose to the fuel pressure regulator.

**3. CONNECT ENGINE WIRE**

**4. INSTALL THROTTLE BODY**
**(See throttle body installation)**

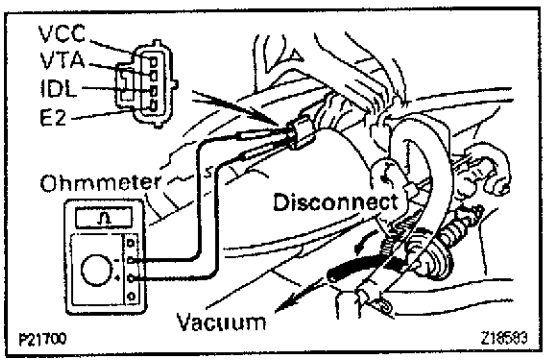



# THROTTLE BODY

E07A1–01

## ON–VEHICLE INSPECTION

**1. INSPECT THROTTLE BODY**
Check that the throttle linkage moves smoothly.




**2. INSPECT THROTTLE POSITION SENSOR**
(a) Disconnect the sensor connector.
(b) Apply vacuum to the throttle opener.
(c) Using an ohmmeter, measure the resistance between each terminal.

| Throttle valve condition | Between terminals | Resistance |
|---|---|---|
| Fully closed | VTA – E2 | 0.2 – 5.7 kΩ |
| Fully closed | IDL – E2 | 2.3 kΩ or less |
| Open | IDL – E2 | Infinity |
| Fully open | VTA – E2 | 2.0 – 10.2 kΩ |
| – | VCC – E2 | 2.5 – 5.9 kΩ |

(d) Reconnect the sensor connector.

**3. INSPECT THROTTLE OPENER**

**A. Warm up engine**

Allow the engine to warm up to normal operating temperature.

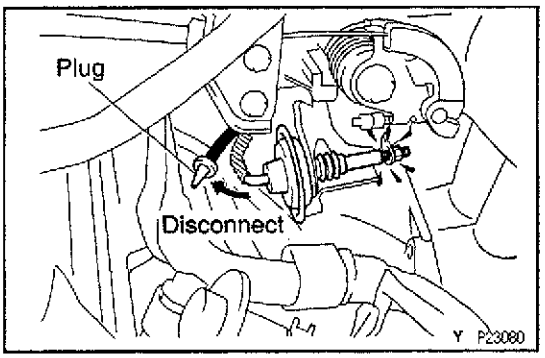
**B. Check idle speed**

**(See steps 3 in idle speed inspection in Engine Mechanical)**

**Idle speed:**

**650 – 750 rpm**

**C. Check throttle opener setting speed**




(a) Disconnect the vacuum hose from the throttle opener, and plug the hose end.

(b) Check the throttle opener setting speed.

**Throttle opener setting speed:**

**1,200 – 1,500 rpm**

If the throttle opener setting is not as specified, replace the throttle body.

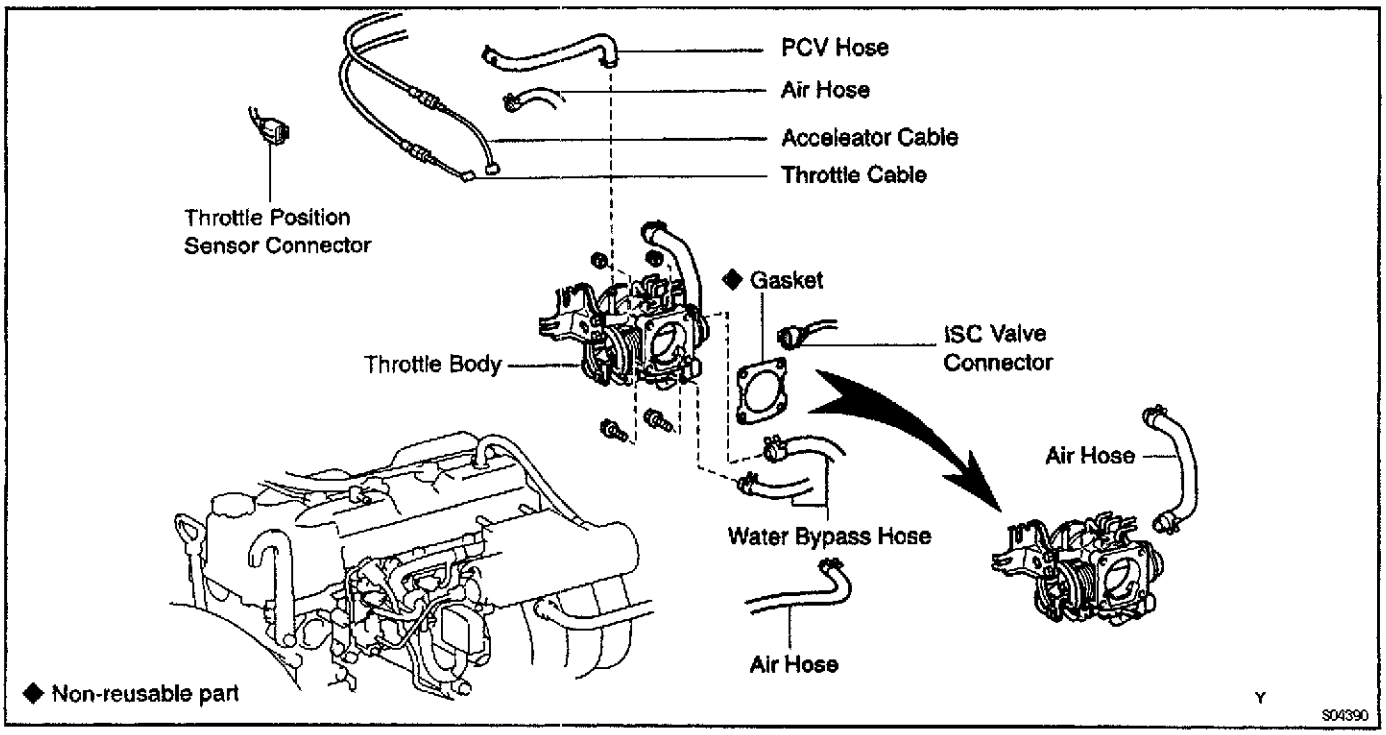
(c) Stop the engine.

(d) Reconnect the vacuum hose to the throttle opener.

(e) Start the engine, and check that the idle speed returns to the correct speed.

EG12G-21

## COMPONENTS FOR REMOVAL AND INSTALLATION



EG

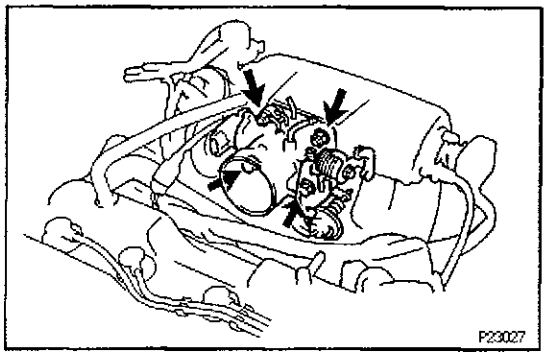
## THROTTLE BODY REMOVAL

1. **DRAIN ENGINE COOLANT**
2. **M/T:**
   **DISCONNECT ACCELERATOR CABLE FROM THROTTLE BODY**
   **A/T:**
   **DISCONNECT ACCELERATOR AND THROTTLE CABLES FROM THROTTLE BODY**
3. **REMOVE PCV HOSE**
4. **REMOVE THROTTLE BODY**

(a) Disconnect these hoses:
- 3 vacuum hoses
- w/ PS:
  Air hose for PS idle–up

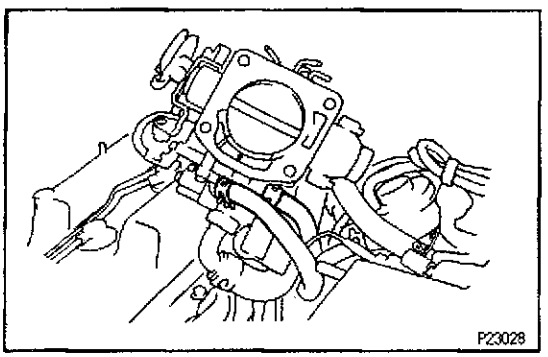
(b) Disconnect the throttle position sensor connector.

(c) Disconnect the ISC valve connector.



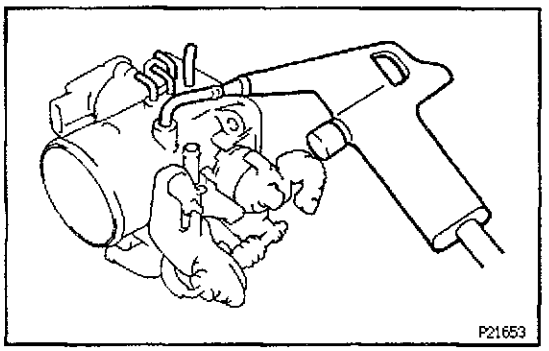

(d) Remove the 2 bolts, 2 nuts, and disconnect the throttle body from the air intake chamber.
**Torque: 20 N·m (200 kgf·cm, 14 ft·lbf)**

(e) Remove the throttle body gasket.
INSTALLATION HINT: Use a new gasket.




(f) Disconnect the water bypass hoses from the throttle body, and remove the throttle body.

5. **REMOVE AIR HOSE FROM ISC VALVE**

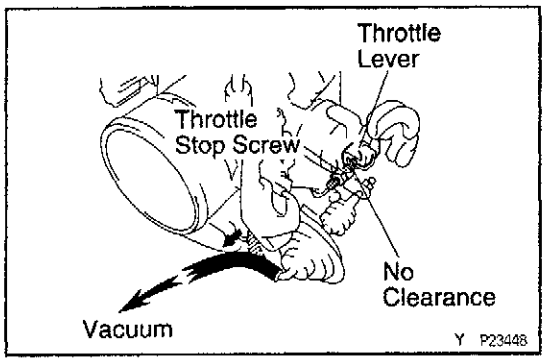



## THROTTLE BODY INSPECTION

1. **CLEAN THROTTLE BODY**

(a) Using a soft brush and carburetor cleaner, clean the cast parts.

(b) Using compressed air, clean all the passages and apertures.
**NOTICE: To prevent deterioration, do not clean the throttle position sensor and ISC valve.**

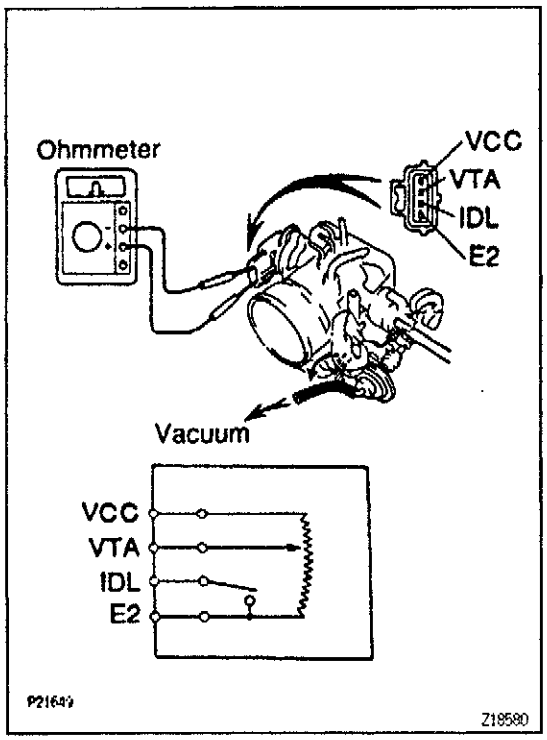



**2. INSPECT THROTTLE VALVE**

(a) Apply vacuum to the throttle opener.

(b) Check that there is no clearance between the throttle stop screw and throttle lever when the closed throttle position.





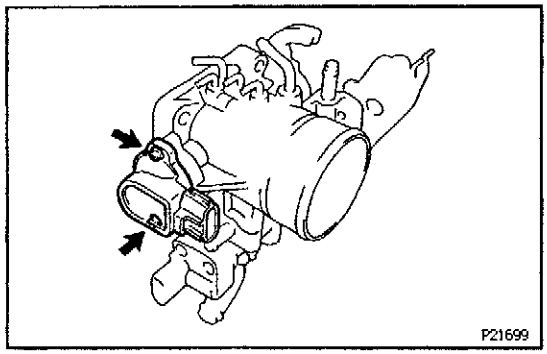

**3. INSPECT THROTTLE POSITION SENSOR**

(a) Apply vacuum to the throttle opener.

(b) Insert a thickness gauge between the throttle stop screw and stop lever.

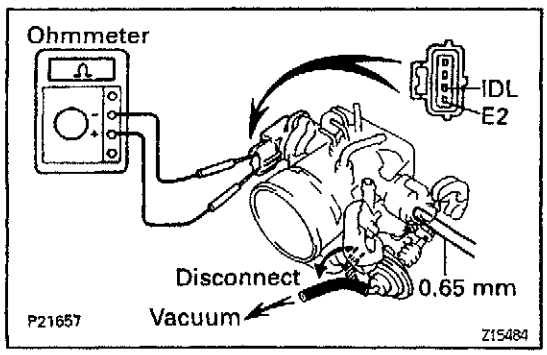
(c) Using an ohmmeter, measure the resistance between each terminal.

| Clearance between lever and stop screw | Between terminals | Resistance |
|---|---|---|
| 0 mm (0 in.) | VTA – E2 | 0.2 – 5.7 kΩ |
| 0.57 mm (0.022 in.) | IDL – E2 | 2.3 kΩ or less |
| 0.74 mm (0.029 in.) | IDL – E2 | Infinity |
| Throttle valve fully open | VTA – E2 | 2.0 – 10.2 kΩ |
| – | VCC – E2 | 2.5 – 5.9 kΩ |




**4. IF NECESSARY, ADJUST THROTTLE POSITION SENSOR**

(a) Loosen the 2 set screws of the sensor.




(b) Apply vacuum to the throttle opener.

(c) Insert a 0.65 mm (0.026 in.) thickness gauge between the throttle stop screw and stop lever.

(d) Connect the test probe of an ohmmeter to the terminals IDL and E2 of the sensor.