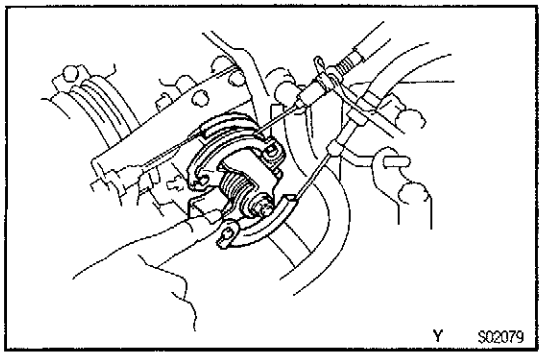


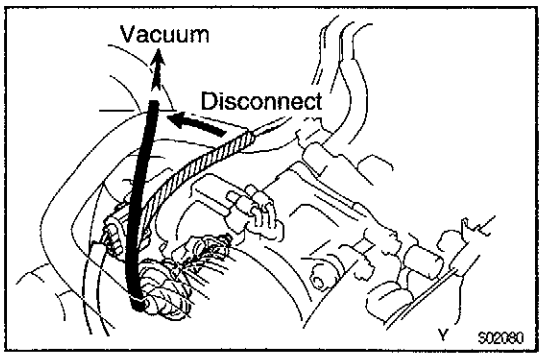
THROTTLE BODY

ON–VEHICLE INSPECTION

EG7CZ–01

1. INSPECT THROTTLE BODY

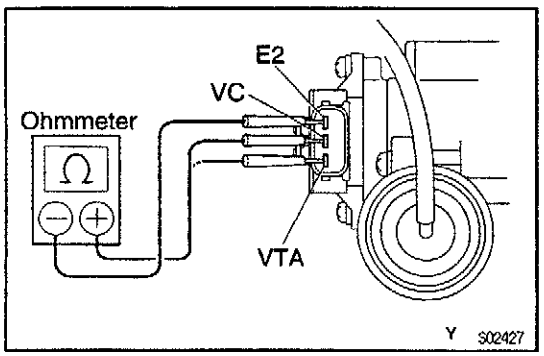
Check that the throttle linkage moves smoothly.



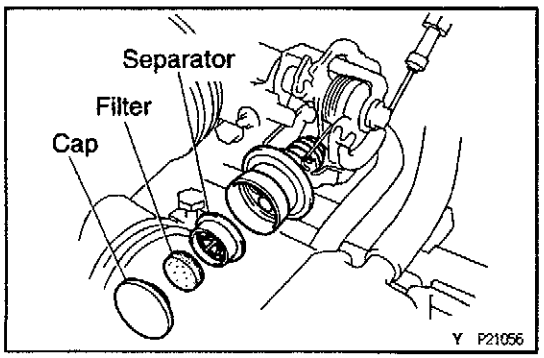
2. INSPECT THROTTLE POSITION SENSOR

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

Throttle valve condition	Between terminals	Resistance
Fully closed	VTA – E2	0.28 – 6.4 kΩ
Fully open	VTA – E2	2.0 – 11.6 kΩ
–	VC – E2	2.7 – 7.7 kΩ

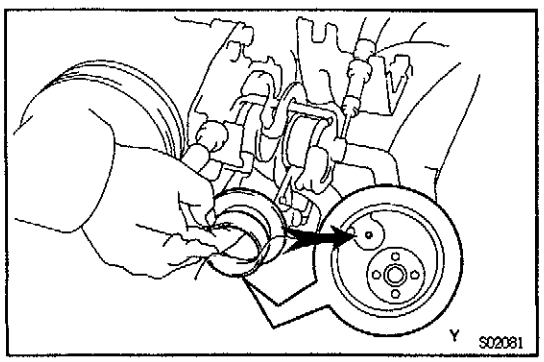


(d) Reconnect the sensor connector.

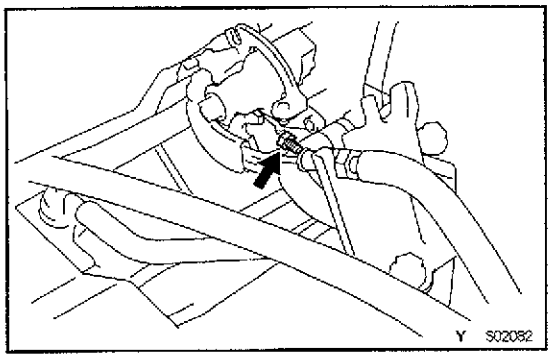


3. M/T: INSPECT DASHPOT (DP)

(a) Allow the engine to warm up to normal operating temperature.
(b) Check idle speed.
Idle speed:
700 ± 50 rpm
(c) Remove the cap, filter and separator from the DP.



(d) Maintain engine speed at 2,500 rpm or more.
(e) Plug the VTV hole with your finger.
(f) Release the throttle valve.
(g) Check the DP is set.
DP setting speed:
1,800 – 2,200 rpm

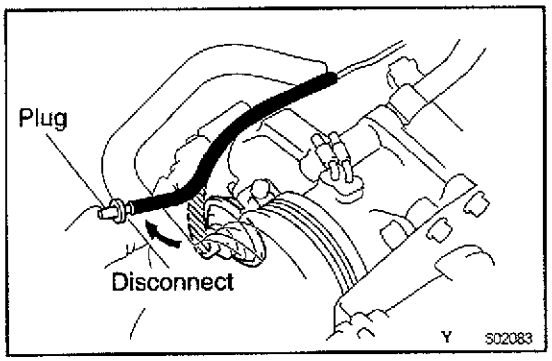


(h) If the setting speed is not as specified, adjust it with the DP adjusting screw.
(i) Remove your finger from the hole and check that the engine returns to idle speed in approx. 1 second.
(j) Reinstall DP separator, filter and cap.
HINT: Install the filter with the coarser surface facing the atmospheric side (outward).

EG

4. INSPECT THROTTLE OPENER

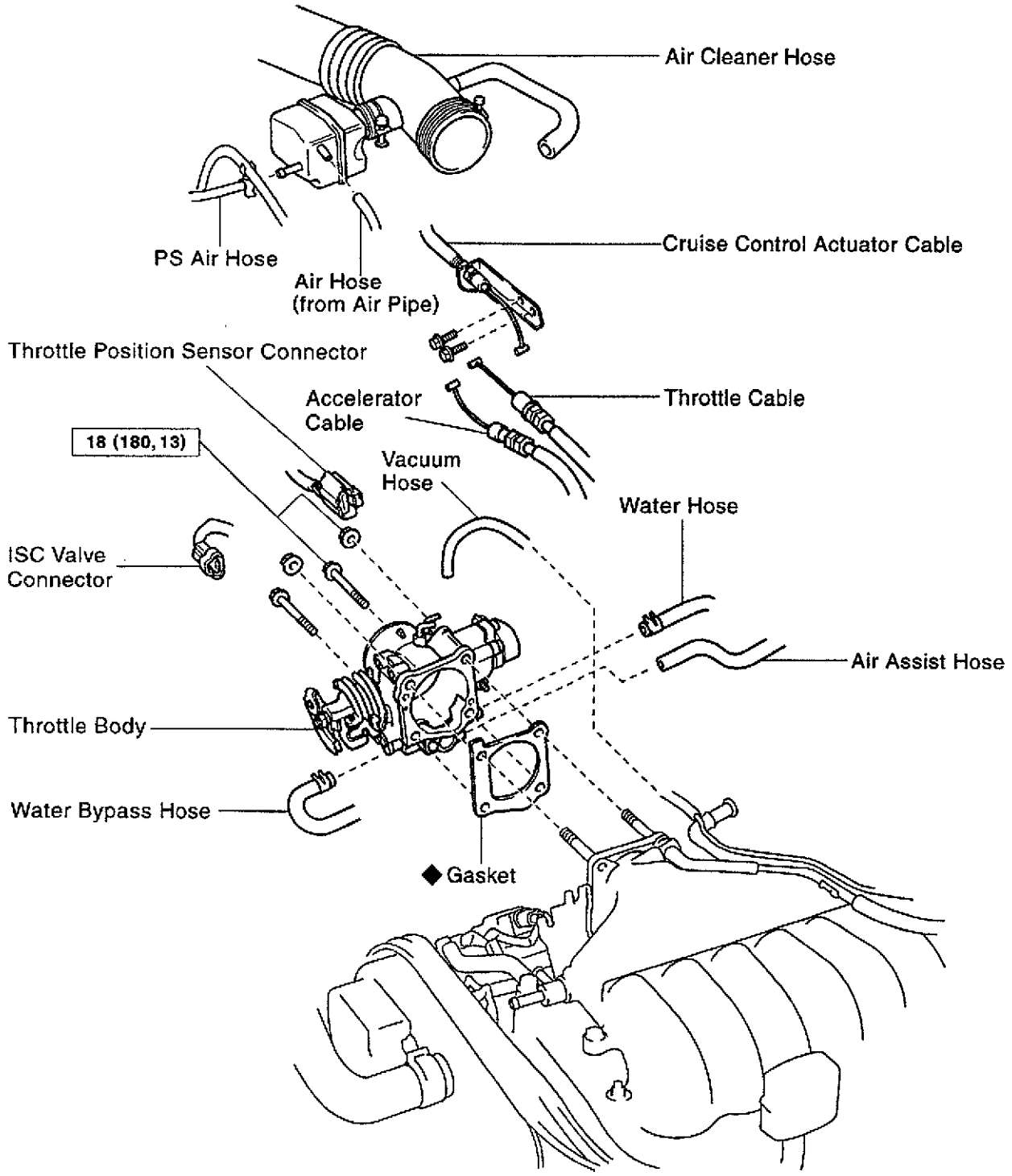
(a) Allow the engine to warm up to normal operating temperature.
(b) Check idle speed.
Idle speed:
700 ± 50 rpm



(c) Disconnect the vacuum hose from the throttle opener, and plug the hose end.
(d) Check the throttle opener setting speed.
Throttle opener setting speed:
900 – 1,950 rpm
If the throttle opener setting is not as specified, replace the throttle body.
(e) Stop the engine.
(f) Reconnect the vacuum hose to the throttle opener.
(g) Start the engine and check that the idle speed returns to the correct speed.

EG13G–22

COMPONENTS FOR REMOVAL AND INSTALLATION



S02101

N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

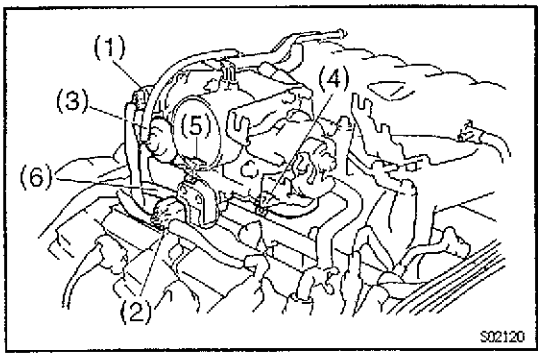
S05104

EG

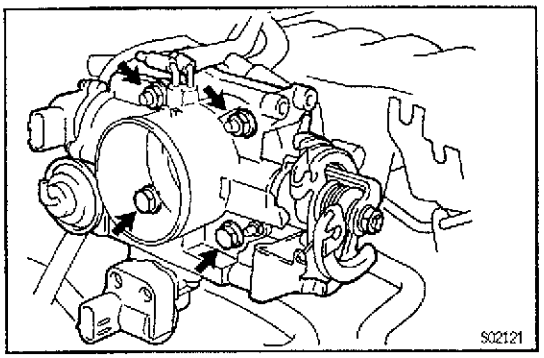
THROTTLE BODY REMOVAL

EG7D0-01

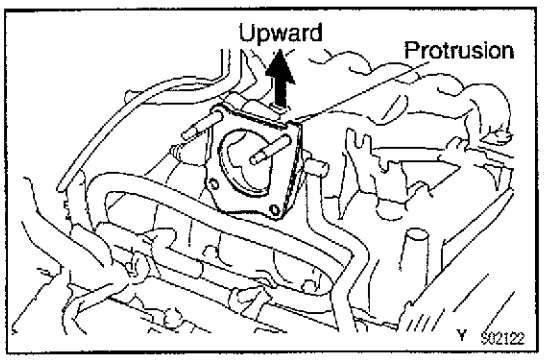
1. **DRAIN ENGINE COOLANT**
2. **DISCONNECT CABLES**
   Disconnect these cables
   (1) w/ Cruise control:
   Cruise control actuator cable
   (2) Accelerator cable
   (3) A/T:
   Throttle cable
3. **REMOVE AIR CLEANER HOSE**
4. **REMOVE THROTTLE BODY**



(a) Disconnect these hoses and connectors:
   (1) Throttle position sensor connector
   (2) ISC valve connector
   (3) Vacuum hose of throttle opener
   (4) Water bypass hose (from water bypass pipe)
   (5) Water hose (from intake manifold)
   (6) Air assist hose



(b) Remove the 2 bolts, 2 nuts, throttle body and gasket.
Torque: 18 N·m (180 kgf·cm, 13 ft·lbf)



INSTALLATION HINT: Place a new gasket on the air intake chamber facing the protrusion upward.

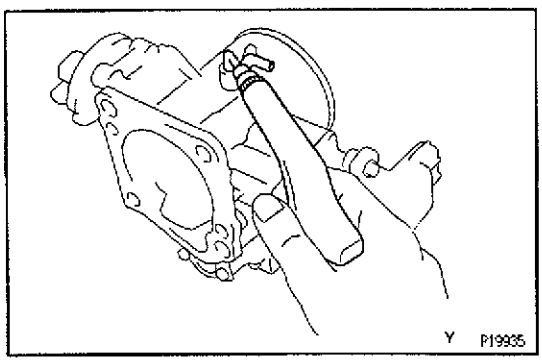
THROTTLE BODY INSPECTION

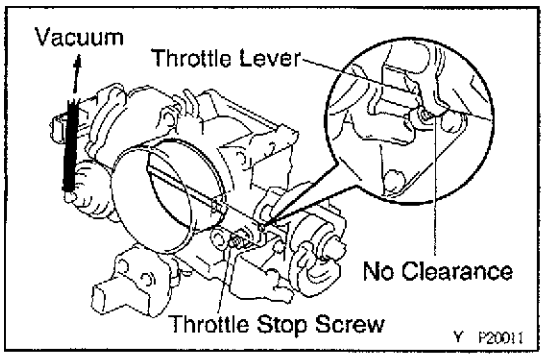
EG7D1-01

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.



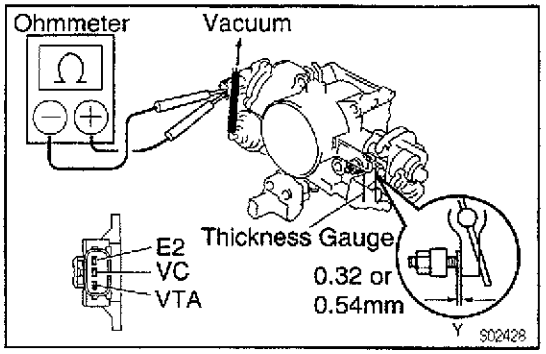


2. INSPECT THROTTLE VALVE

(a) Apply vacuum to the throttle opener.

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

Throttle valve fully closed angle: 10°



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	0.28 – 6.4 kΩ
Throttle valve fully open	VTA – E2	2.0 – 11.6 kΩ
–	VC – E2	2.7 – 7.7 kΩ

THROTTLE BODY INSTALLATION

EG66N-03

Installation is in the reverse order removal.