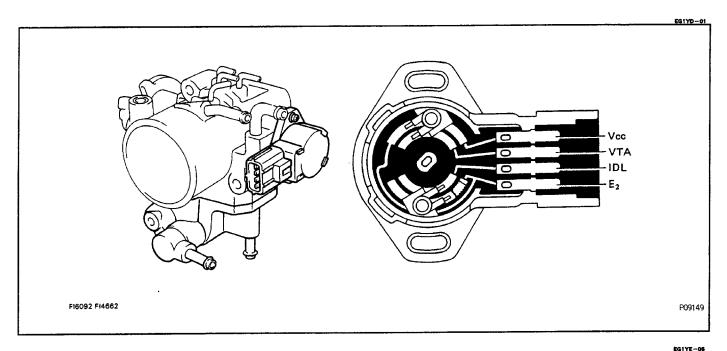
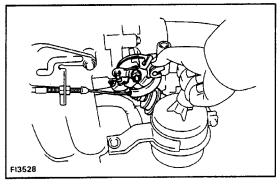
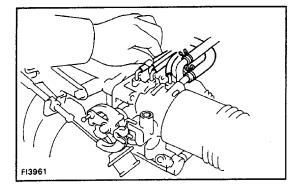
THROTTLE BODY





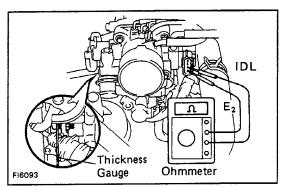
ON-VEHICLE INSPECTION 1. INSPECT THROTTLE BODY

(a) Check that the throttle linkage moves smoothly.



- (b) Check the vacuum at each port.
- Start the engine.
- Check the vacuum with your finger.

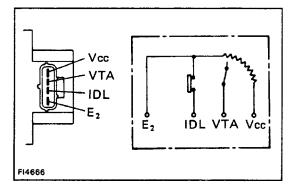
Port name	At idling	At 3,500 rpm
E	No vacuum	Vacuum
R	No vacuum	Vacuum
Р	No vacuum	Vacuum



2. INSPECT THROTTLE POSITION SENSOR

Check the resistance between the terminals.

- Unplug the connector from the sensor. Insert a thickness gauge between the throttle stop screw and stop lever.
- Using an ohmmeter, check the resistance between each terminal.



Clearance between lever and stop screw	Between terminals	Resistance
0 mm 10 in.	VTA – E2	0.47 – 8.1 kΩ
0.57 mm 10.0224 in.)	IDL – E2	2.3 kΩ or less
0.85 mm (0.0335 in.)	IDL – E2	Infinity
Throttle valve fully open	VTA – E2	3.1 – 12.1 kΩ
_	Vcc – E2	3.9 – 9.4 kΩ

V01951

3. (M/T)

INSPECT DASH POT (DP)

A. Warm up engine

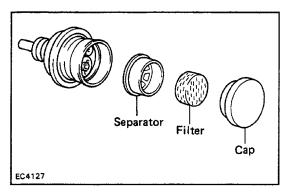
Allow the engine to warm up to normal operating temperature.

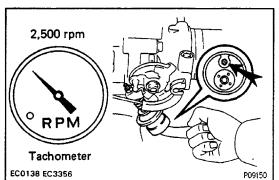
B. Check idle speed and adjust if necessary

(See page MA-11)

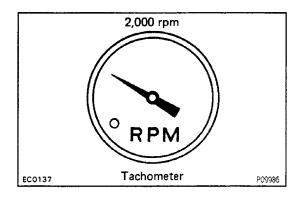
Idle speed: 750 rpm

C. Remove cap, filter, and separator from DP

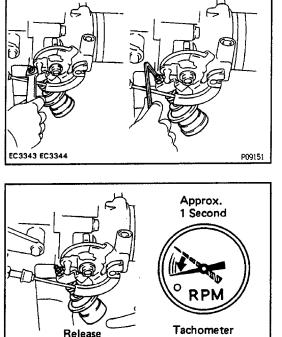




- D. Check and adjust dash pot (DP) setting speed
- (a) Maintain engine speed at 2,500 rpm.
- (b) Plug the VTV hole with your finger.



(c) Release the throttle valve.(d) Check the DP is set.DP setting speed: 2,000 rpm



EC3357 EC0141

(e) If not as specified, adjust with the DP adjusting screw.

E. Check operation of VTV

(a) Set the DP setting speed in the same procedure as above; (a) to (c).

(b) Remove your finger from the hole and check that the engine returns to idle speed in approx. 1 second.

F. Reinstall DP separator, filter and cap

HINT: Install the filter with the coarser surface facing the atmospheric side (outward).

4. (A/T)

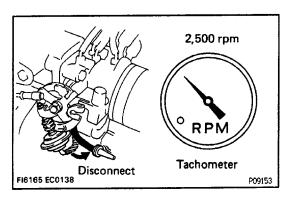
P09152

INSPECT THROTTLE OPENER

A. Warm up engine

Allow the engine to warm up to normal operating temperature.

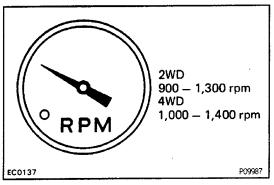
- B. Check idle speed
- Idle speed: 2WD 750 50 rpm 4WD 850 \pm 50 rpm



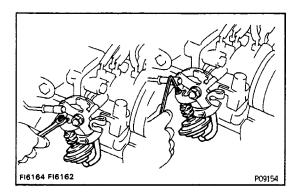
C. Check and adjust throttle opener setting speed

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

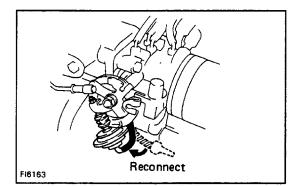
(a) Disconnect the vacuum hose from the throttle opener, and plug the hose end.



(c) Release the throttle valve.
(d) Check that the throttle opener is set.
Throttle opener setting speed: 2WD 900–1,300 rpm 4WD 1,000–1,400 rpm



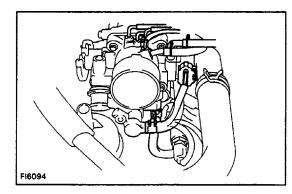
(e) If not as specified, adjust with the throttle opener adjusting screw.



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

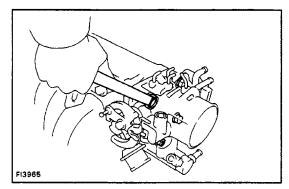
THROTTLE BODY REMOVAL

- **1. REMOVE INTAKE AIR CONNECTOR**
- 2. DRAIN COOLANT
- 3. DISCONNECT ACCELERATOR CABLE



4. DISCONNECT FOLLOWING HOSES:

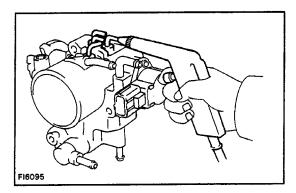
- (a) (with A/C)
- A/C idle up hose.
- (b) PCV hose
- (c) No. 2 and No. 3 water by-pass hoses.
- (d) Label and disconnect the emission control hoses.
- 5. DISCONNECT THROTTLE SENSOR CONNECTOR



6. REMOVE THROTTLE BODY

Remove the three bolts and but, and remove the throttle body and gasket.

EG1YF-01



Throttle

Lever

F13525

Throttle Stop Screw

THROTTLE BODY INSPECTION 1. CLEAN THROTTLE BODY BEFORE INSPECTION

(a) Wash and clean the cast parts with a soft brush in carburetor cleaner.

(b) Using compressed air, clean all the passages and apertures in the throttle body.

NOTICE: To prevent deterioration, do not clean the throttle position sensor.

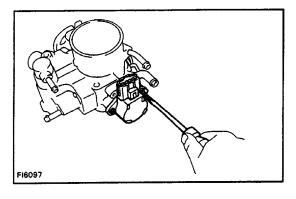
2. CHECK THROTTLE VALVE

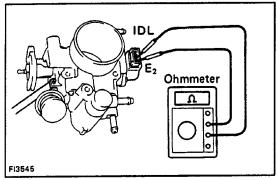
Check that there is no clearance between the throttle stop screw and throttle lever when the throttle valve is fully closed.

3. CHECK THROTTLE POSITION SENSOR (See step 2 on page EG1-197)

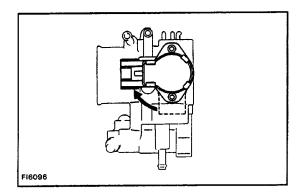
4. IF NECESSARY, ADJUST THROTTLE POSITION SENSOR

(a) Loosen the two screws of the sensor.





(b) Insert a thickness gauge (0.70 mm or 0.0276 in.) between the throttle stop screw and lever, and connect the ohmmeter to terminals IDL and E2.

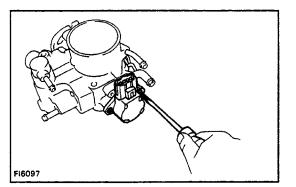


(c) Gradually turn the sensor clockwise until the ohmmeter deflects, and secure the sensor with the two screws.

(d) Using a thickness gauge, recheck the continuity between terminals IDL and E2.

Clearance between lever and stop screw	Continuity (IDLE – E2)
0.57 mm (0.0224 in.)	Continuity
0.85 mm (0.0335 in.)	No continuity

EG1YG-01

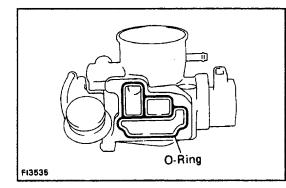


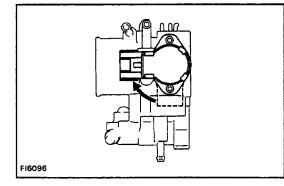
THROTTLE BODY DISASSEMBLY

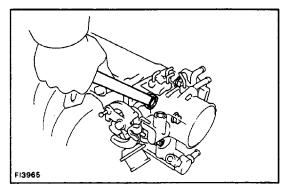
1. REMOVE THROTTLE POSITION SENSOR Remove the two screws and sensor.

2. REMOVE AUXILIARY AIR VALVE Remove the four screws, air valve and O-ring. 3. (M/T) REMOVE DASH POT 4. (A/T) REMOVE THROTTLE OPENER

F13581







THROTTLE BODY ASSEMBLY

1. (M/T)

INSTALL DASH POT

2. (A/T)

INSTALL THROTTLE OPENER

3. INSTALL AIR VALVE

- (a) Place a new O-ring on the throttle body.
- (b) Install the air valve with the four screws.

4. INSTALL THROTTLE POSITION SENSOR

(a) Check that the throttle valve is fully closed.

(b) Place the sensor on the throttle body as shown in the illustration.

(c) Turn the sensor clockwise, and temporarily install the two screws.

5. ADJUST THROTTLE POSITION SENSOR (See step 4 on page EG1-202)

THROTTLE BODY INSTALLATION

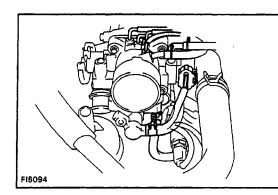
1. INSTALL THROTTLE BODY Using a new gasket, install the throttle body, three bolts and nut.

Torque: 19 N-m (195 kgf-cm. 14 ft-lbf)

EG1YJ-01

EGIYK-01

EQ1YH-01



2. CONNECT THROTTLE SENSOR CONNECTOR 3. CONNECT FOLLOWING HOSES:

- (a) Emission control hoses
- (b) No. 2 and No. 3 water by-pass hoses
- (c) PCV hose
- (d) (with A/C) A/C idle up hose
- 4. CONNECT ACCELERATOR CABLE
- 5. INSTALL AIR INTAKE CONNECTOR
- 6. FILL WITH COOLANT