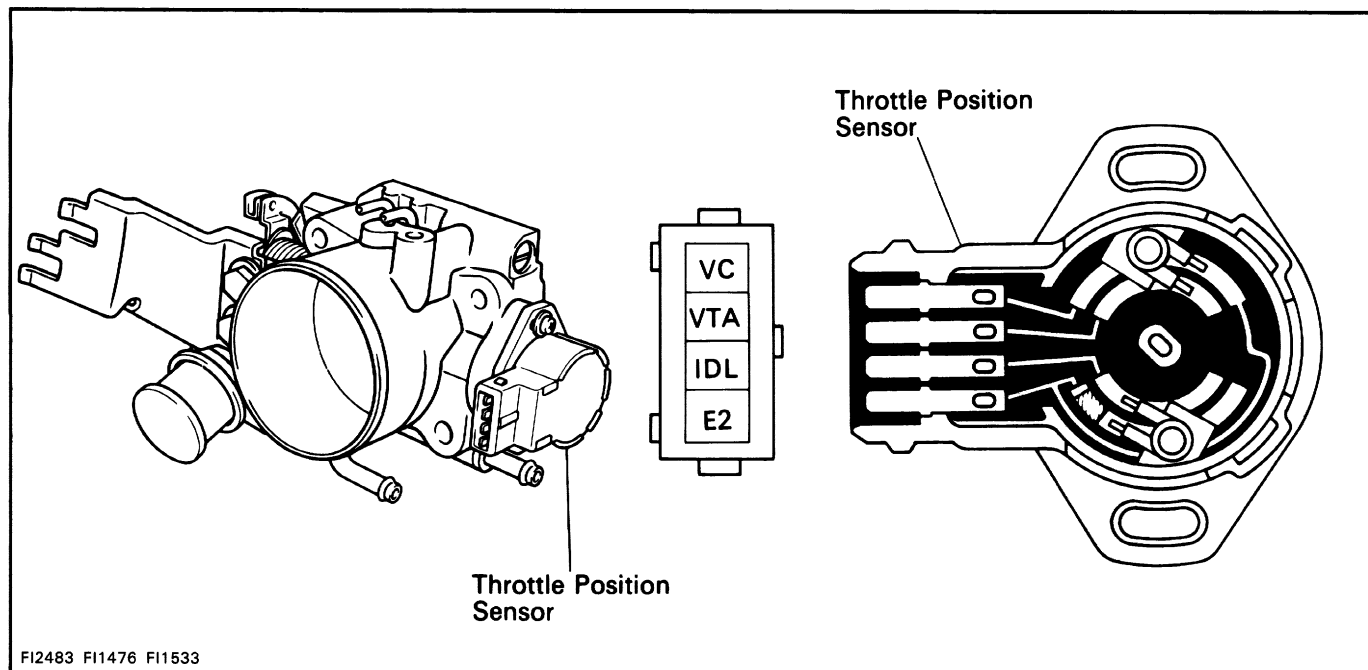


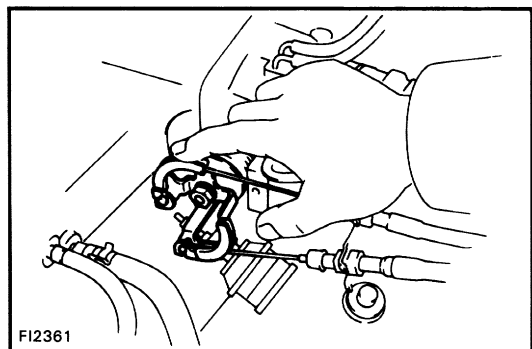
Throttle Body



ON-VEHICLE INSPECTION

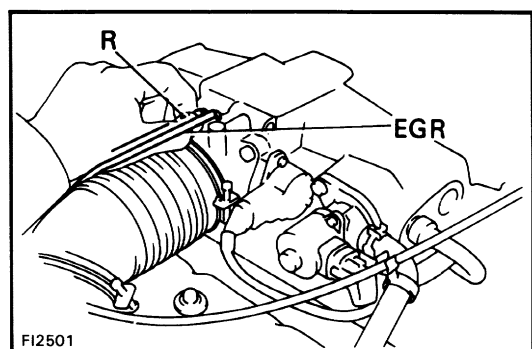
1. INSPECT THROTTLE BODY

- (a) Check that the throttle linkage moves smoothly.



- (b) Check the vacuum at each port.

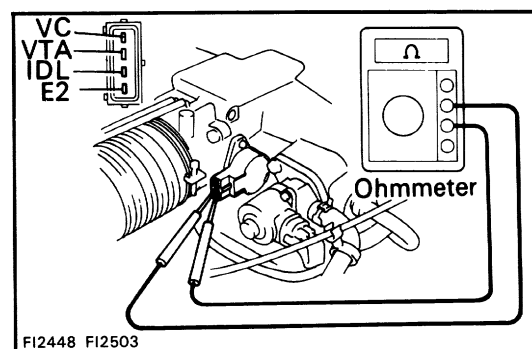
- Start the engine.
- Check the vacuum with your finger.

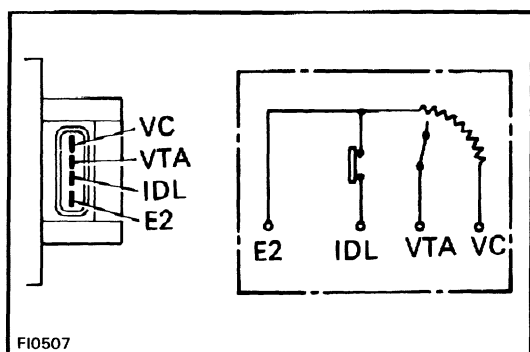


Port No.	At idling	Other than idling
EGR	No vacuum	Vacuum
R	No vacuum	Vacuum

2. INSPECT THROTTLE POSITION SENSOR

- (a) Disconnect the sensor connector.
- (b) Insert a thickness gauge between the throttle stop screw and stop lever.
- (c) Using an ohmmeter, measure the resistance between each terminal.





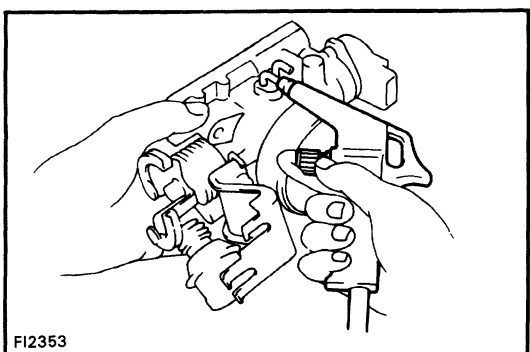
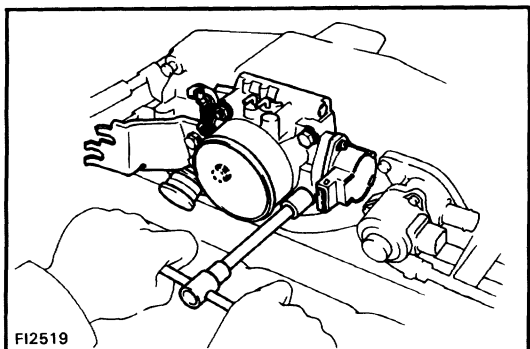
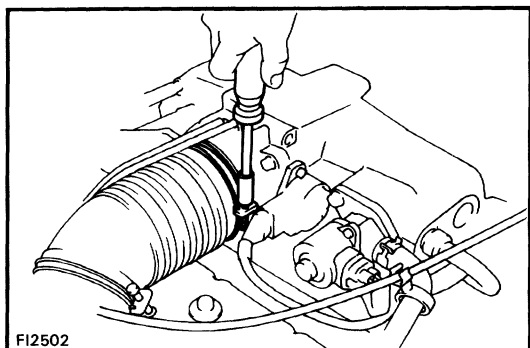
Clearance between lever and stop screw	Between terminals	Resistance
0 mm (0 in.)	VTA - E2	0.3 - 6.3 kΩ
0.77 mm (0.0303 in.)	IDL - E2	Less than 2.3 kΩ
1.09 mm (0.0429 in.)	IDL - E2	Infinity
Throttle valve fully opened position	VTA - E2	3.5 - 10.3 kΩ
	VC - E2	4.25 - 8.25 kΩ

(d) Reconnect the sensor connector.

REMOVAL OF THROTTLE BODY

1. DRAIN ENGINE COOLANT
2. DISCONNECT ACCELERATOR AND THROTTLE CABLES
3. DISCONNECT AIR CLEANER HOSE
4. DISCONNECT THROTTLE POSITION SENSOR CONNECTOR
5. DISCONNECT WATER HOSES
6. DISCONNECT VACUUM HOSES
7. REMOVE THROTTLE BODY

Remove the three bolts, nut, throttle body and gasket.

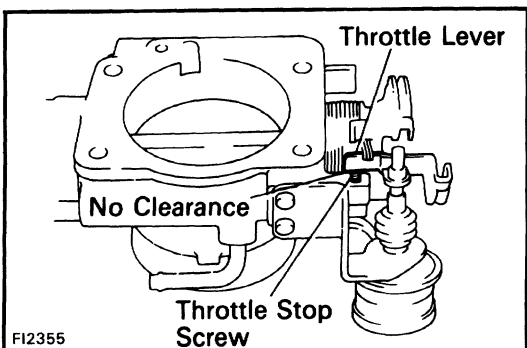


INSPECTION OF THROTTLE BODY

1. CLEAN THROTTLE BODY

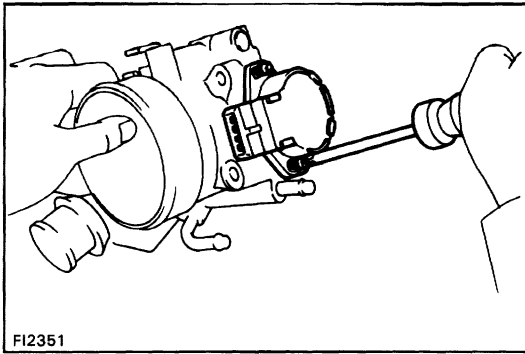
- (a) Using a soft brush and carburetor cleaner, clean the cast parts.
- (b) Using compressed air, clean all the passages and apertures.

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



2. INSPECT THROTTLE VALVE

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

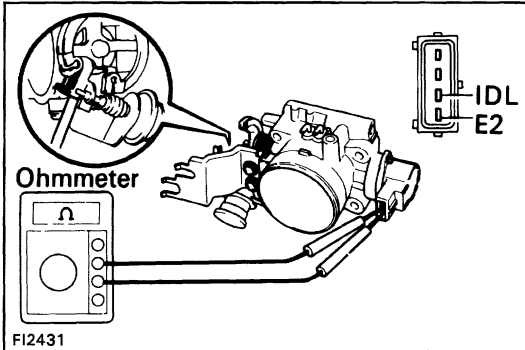


3. INSPECT THROTTLE POSITION SENSOR

(See step 2 on page FI-72)

4. IF NECESSARY, ADJUST THROTTLE POSITION SENSOR

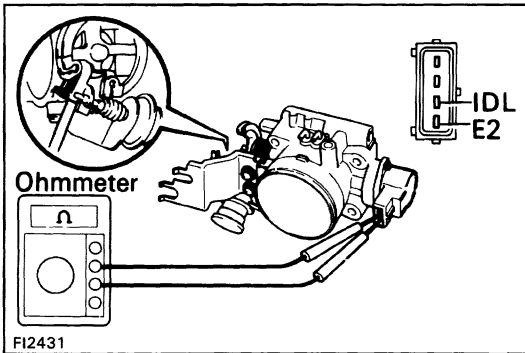
(a) Loosen the two set screws of the sensor.



(b) Insert a 0.93 mm (0.0366 in.) thickness gauge, between the throttle stop screw and stop lever.

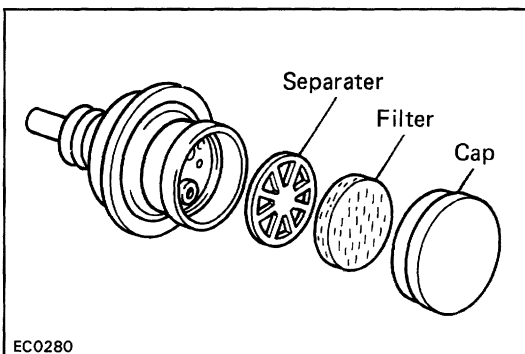
(c) Connect the test probe of an ohmmeter to the terminals IDL and E2 of the sensor.

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



(e) Recheck the continuity between terminals IDL and E2.

Clearance between lever and stop screw	Continuity (IDL – E2)
0.77 mm (0.0303 in.)	Continuity
1.09 mm (0.0429 in.)	No continuity



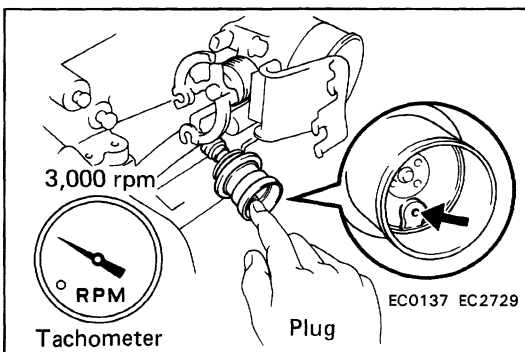
5. INSPECT DASH POT (DP)

A. WARM UP ENGINE

B. CHECK IDLE SPEED

C. DISCONNECT ISC CONNECTOR

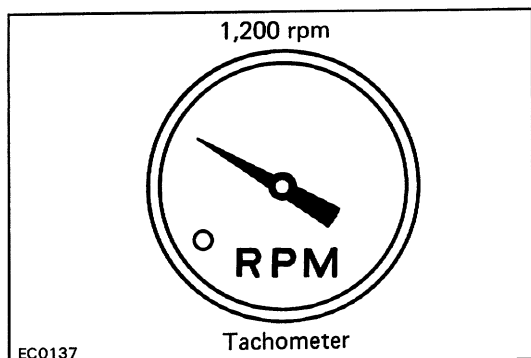
D. REMOVE CAP, FILTER AND SEPARATOR FROM DP



E. CHECK DP SETTING SPEED

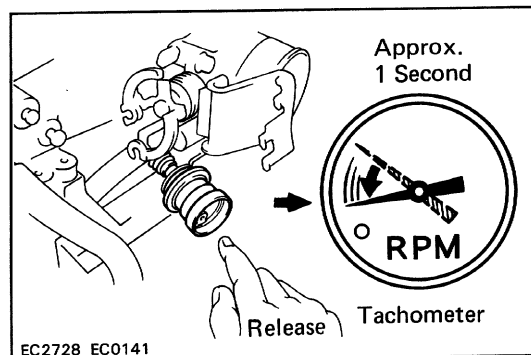
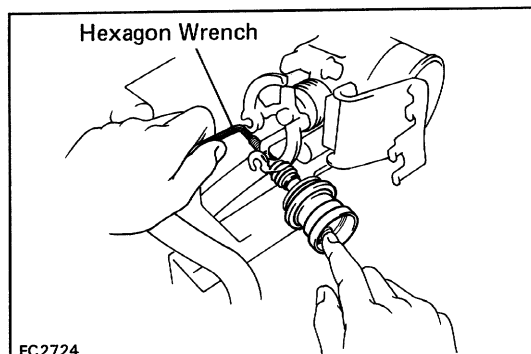
(a) Maintain engine speed at 2,500 rpm.

(b) Plug the VTV hole with your finger.



- (c) Release the throttle valve.
 - (d) Check that the DP is set.
- DP setting speed: 1,200 rpm.**

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



F. CHECK OPERATION OF VTV

- (a) Set the DP 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 in approx. 1 second.

G. REINSTALL DP SEPARATER, FILTER AND CAP

H. RECONNECT ISC CONNECTOR

INSTALLATION OF THROTTLE BODY

1. INSTALL THROTTLE BODY

Install a new gasket and the throttle body with the three bolts and nut.

Torque: 12 N-m (120 kgf-cm, 9 ft-lbf)

2. CONNECT WATER HOSES

3. CONNECT VACUUM HOSES

4. CONNECT THROTTLE POSITION SENSOR CONNECTOR

5. CONNECT AIR CLEANER HOSE

6. CONNECT ACCELERATOR AND THROTTLE CABLES, AND ADJUST THEM

7. FILL WITH ENGINE COOLANT (See page [CO-5](#))

