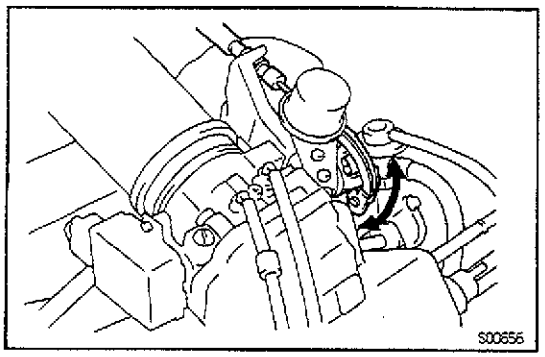


THROTTLE BODY

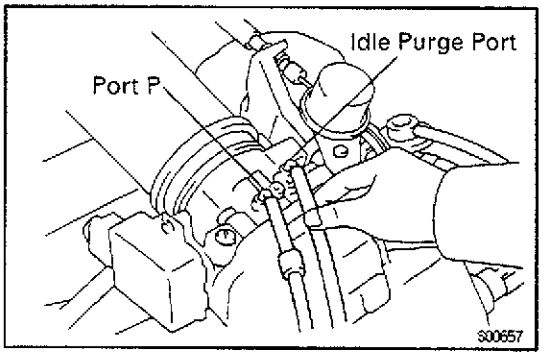
EG6RP-01

ON–VEHICLE INSPECTION

Throttle Body

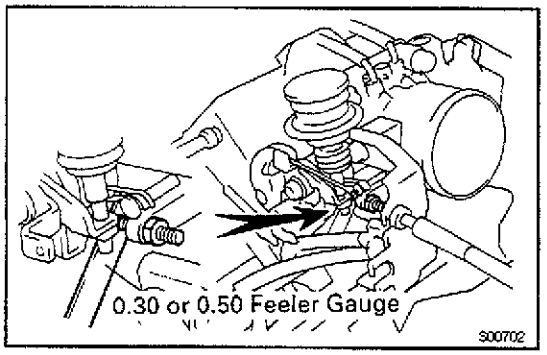
INSPECT THROTTLE BODY

(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 idle	Other than idle
P	No vacuum	Vacuum
Idle purge port	Vacuum	Vacuum

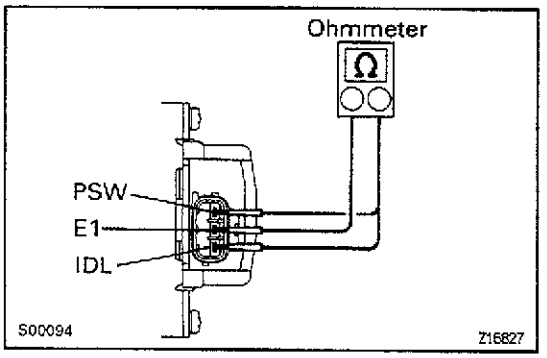


Throttle Position Sensor

INSPECT THROTTLE POSITION SENSOR

(a) Disconnect the sensor connector.

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

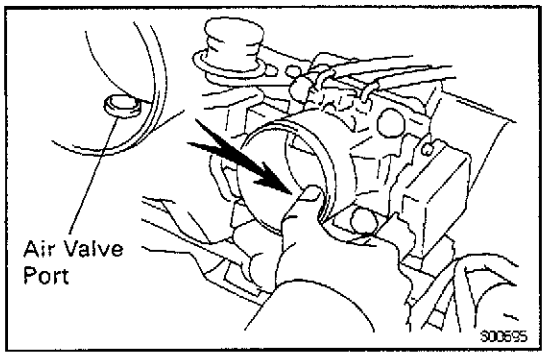


(c) Using an ohmmeter, check the continuity between each terminal.

Clearance between lever and stop screw	Between terminals	Continuity
0.30 mm (0.012 in.)	IDL – E1	Continuity
	PSW – E1	No continuity
0.50 mm (0.020 in.)	IDL – E1	No continuity
	PSW – E1	No continuity
Throttle valve fully open	IDL – E1	No continuity
	PSW – E1	Continuity

(d) Reconnect the sensor connector.

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Air Valve

CHECK AIR VALVE OPERATION

Check the engine rpm by closing the air valve port on the throttle body.

- At low temperature
  (Coolant temperature: below 80°C (176°F)):
  When the air valve port is closed, the engine speed should drop.
- After warm–up:
  When the air valve port is closed, check that the engine speed does not drop more than 100 rpm.

Dashpot

INSPECT AND ADJUST DASHPOT

A. Warm up engine

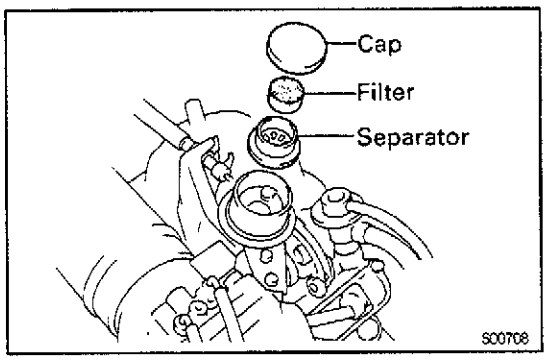
Allow the engine to warm up to normal operating temperature.

B. Check idle speed

Idle speed:

750 ± 50 rpm

C. Remove cap, filter and separator from dashpot

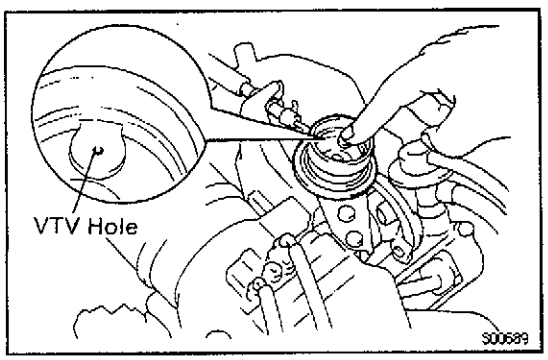


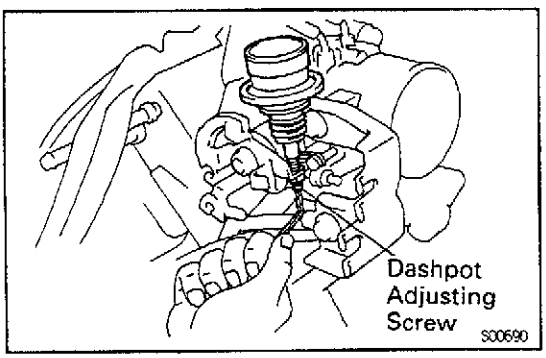
D. Check and adjust dashpot setting speed

(a) Maintain the engine at 4,000 rpm.
(b) Plug the VTV hole with your finger.
(c) Release the throttle valve.
(d) Check that the dashpot is set.

Dashpot setting speed:

2,000 ± 200 rpm





(e) Adjust the dashpot setting speed by turning the dashpot adjusting screw.
(f) Repeat steps from (a) to (c), and recheck the dashpot setting speed.

E. **Reinstall separator, filter and cap to dashpot**
HINT: Install the filter with the coarser surface facing the atmospheric side (outside).

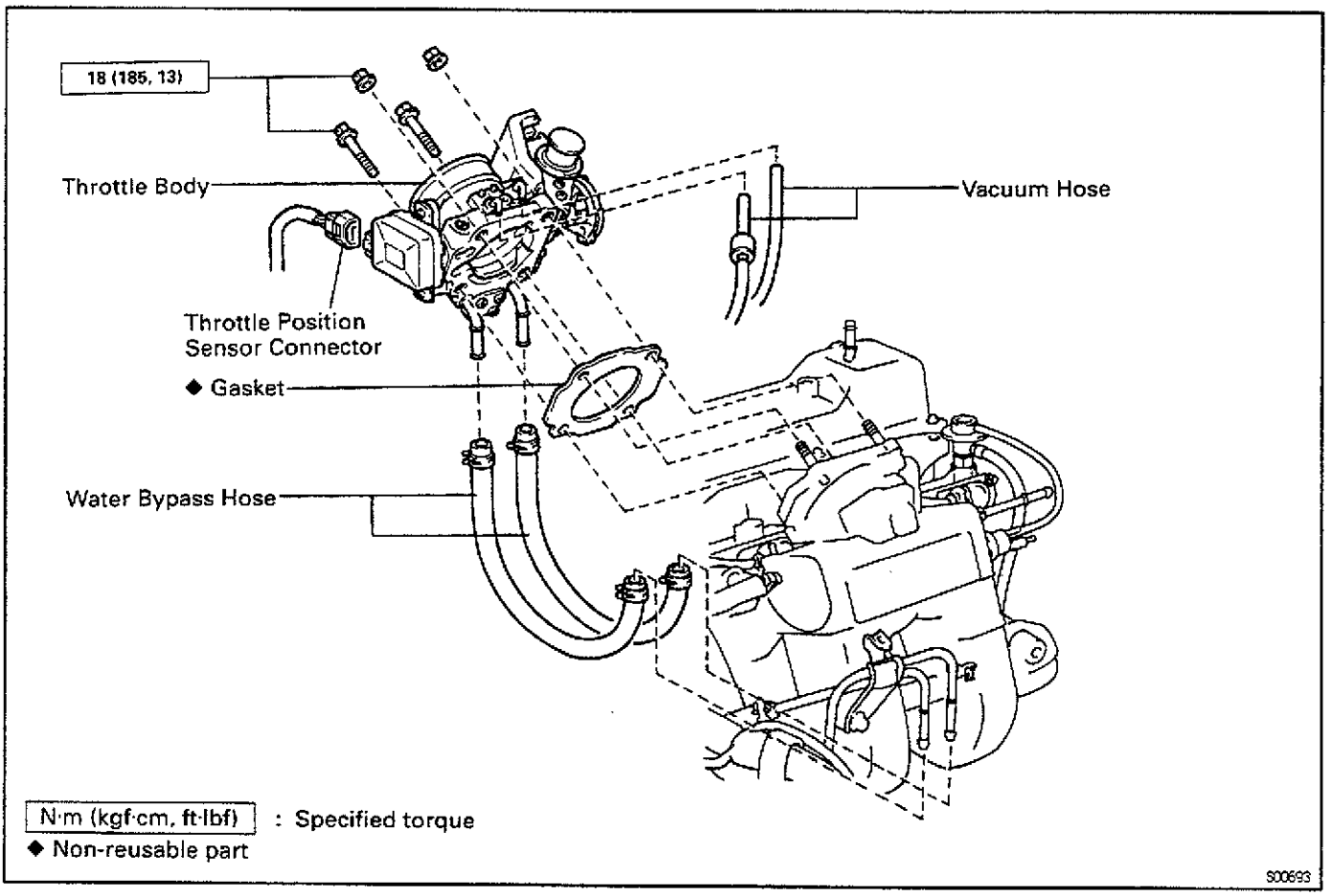
F. **Check VTV operation**

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

(b) Release the throttle valve, and check that the engine returns to idle in a few seconds.

EG

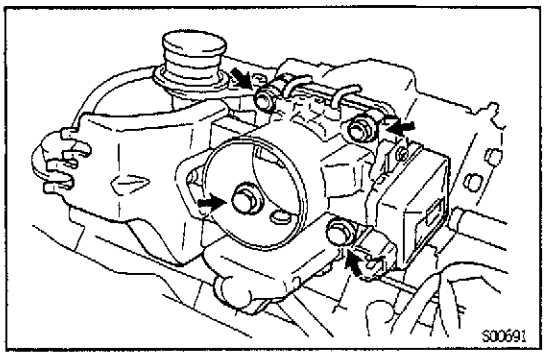
COMPONENTS FOR REMOVAL AND INSTALLATION



THROTTLE BODY REMOVAL

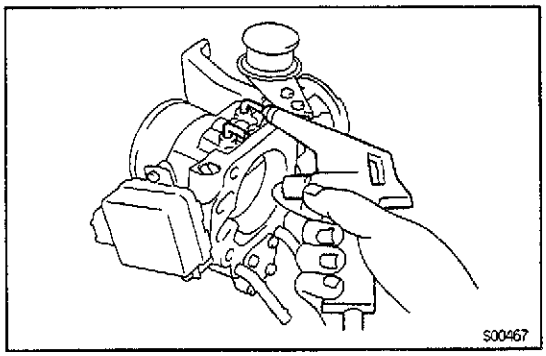
1. **DRAIN ENGINE COOLANT**
2. **DISCONNECT THROTTLE POSITION SENSOR CONNECTOR**
3. **DISCONNECT VACUUM HOSES FROM THROTTLE BODY**
4. **DISCONNECT WATER BYPASS HOSES FROM NO.2 WATER BYPASS PIPE**

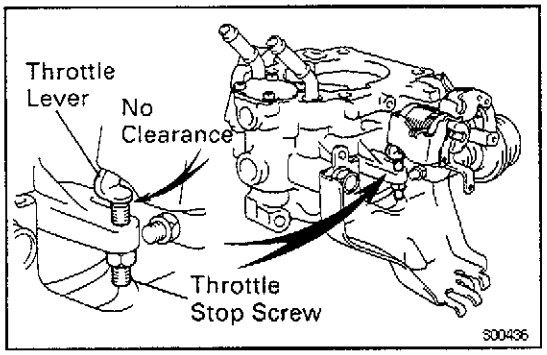
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5. REMOVE THROTTLE BODY

(a) Remove the 2 bolts, 2 nuts, throttle body and gasket.
(b) Remove the 2 water bypass hoses from the throttle body.





THROTTLE BODY INSPECTION

EG6RS-01

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 and dashpot.

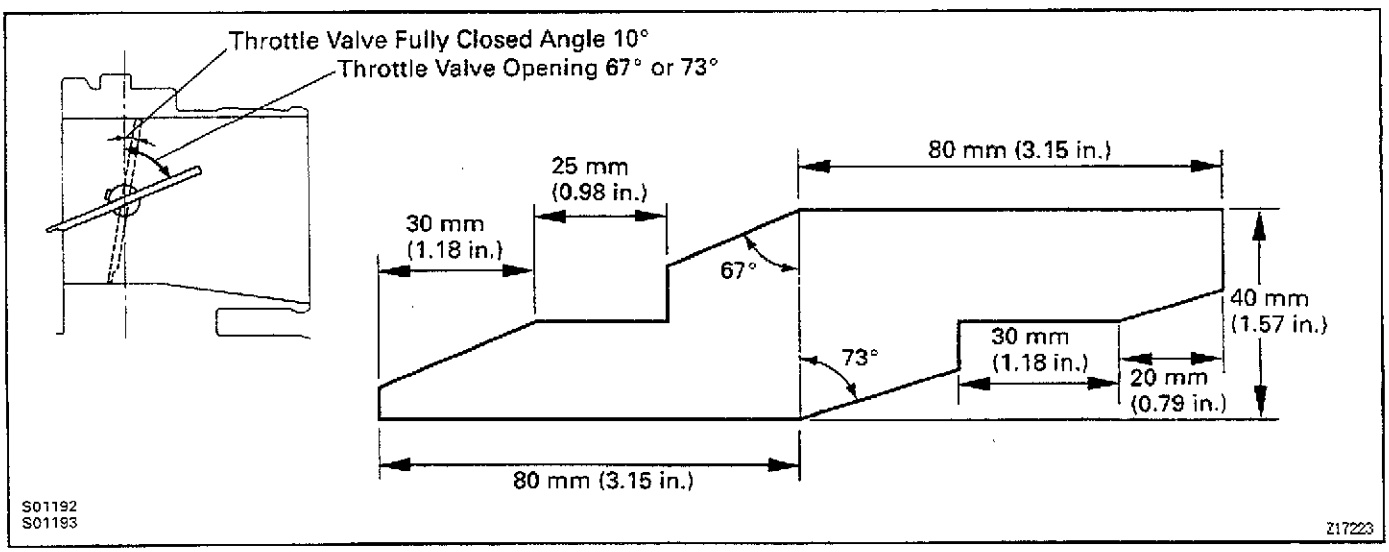
2. INSPECT THROTTLE VALVE

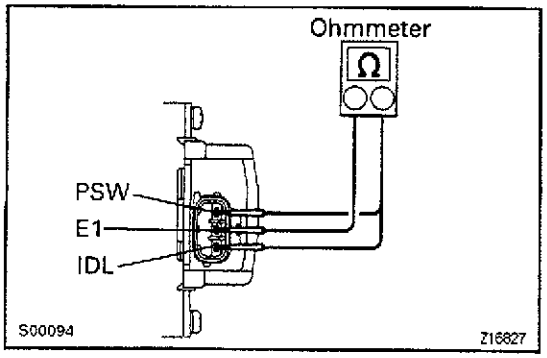
Check that there is no clearance between the throttle stop screw and throttle lever when the throttle valve is fully closed.

Throttle Position Sensor

1. INSPECT THROTTLE POSITION SENSOR

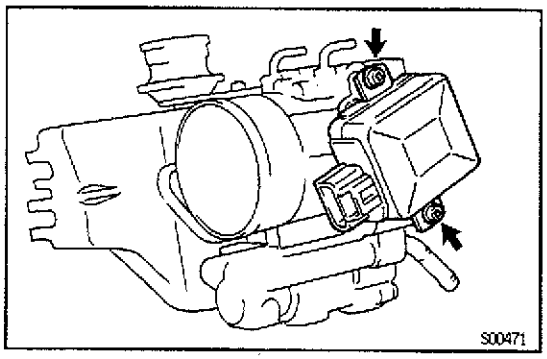
(a) Make an angle gauge as shown in the illustration.
(b) Set the throttle valve opening to 67° or 73° from the vertical position (incl. throttle valve fully closed angle 10°).





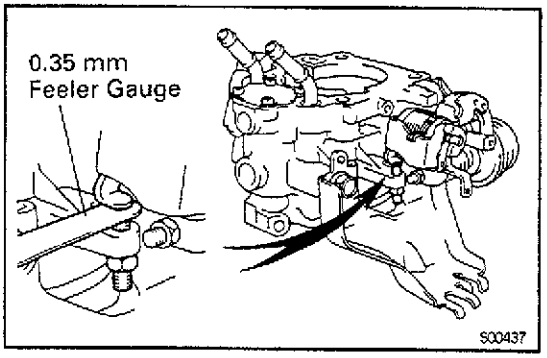
(b) Using an ohmmeter, check the continuity between each terminal.

Throttle valve opening angle	Between terminals	Continuity
67° from vertical	IDL – E1	No continuity
	PSW – E1	No continuity
73° from vertical	IDL – E1	No continuity
	PSW – E1	Continuity
Less than 12° from vertical	IDL – E1	Continuity
	PSW – E1	No continuity

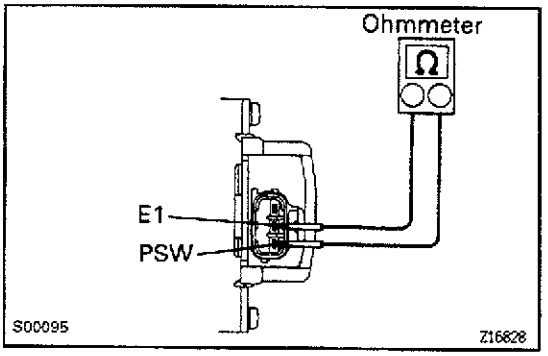


2. IF NECESSARY, ADJUST THROTTLE POSITION SENSOR

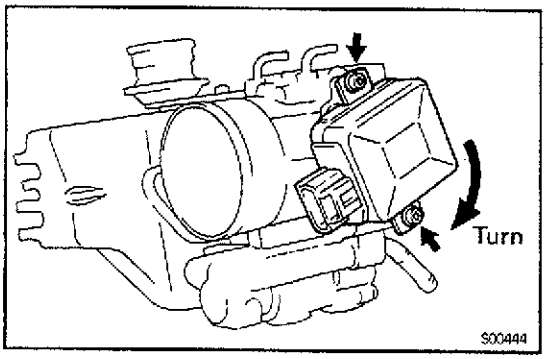
(a) Loosen the 2 set screws of the sensor.



(b) Insert a 0.35 mm (0.014 in.) feeler gauge between the throttle stop screw and stop lever.



(c) Connect the tester probe of an ohmmeter to the terminals IDL and E1 of the sensor.



(d) Gradually turn the sensor clockwise until the ohmmeter deflects, and secure it with the 2 set screws.

(e) Recheck the continuity between terminals IDL and E1.

Clearance between lever and stop screw	Continuity (IDL – E1)
0.30 mm (0.012 in.)	Continuity
0.50 mm (0.020 in.)	No continuity