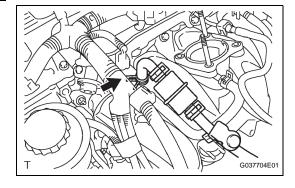
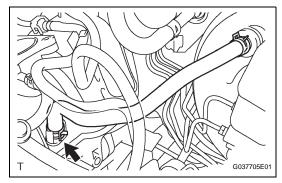
REMOVAL

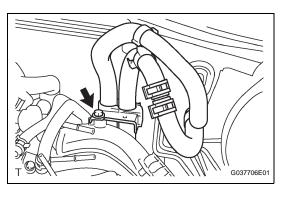
- 1. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL
- 2. REMOVE ENGINE UNDER COVER SUB-ASSEMBLY (for 4WD and Pre-Runner)
- 3. DRAIN ENGINE COOLANT (See page CO-3)
- 4. REMOVE INTAKE AIR CONNECTOR (See page ES-452)
- 5. REMOVE THROTTLE WITH MOTOR BODY ASSEMBLY (See page ES-453)
- 6. DISCONNECT FUEL HOSE (See page FU-11)
- 7. DISCONNECT FUEL HOSE NO.2 (See page FU-11)
- 8. REMOVE INTAKE MANIFOLD
 - (a) Disconnect the fuel vapor feed hose from the VSV.



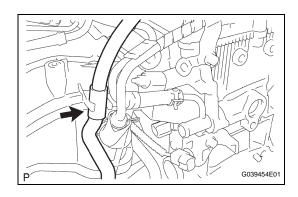
(b) Disconnect the vacuum hose.



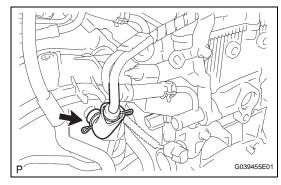
(c) Remove the bolt, then remove the clamp bracket.



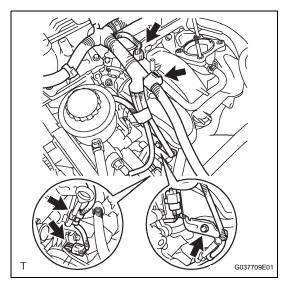




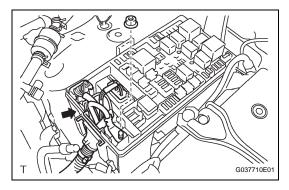
(d) Disconnect the water by-pass hose No. 2.



(e) Disconnect the ventilation hose No. 3.

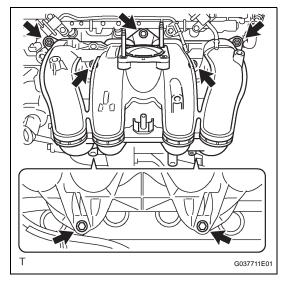


- (f) Disconnect the VSV connector.
- (g) Disengage the engine wire harness clamp.
- (h) Disconnect the compressor magnetic clutch connector. (w/ AIR CONDITIONING)
- (i) Disengage the wire harness clamp.
- (j) Remove the bolt and harness clamp bracket.



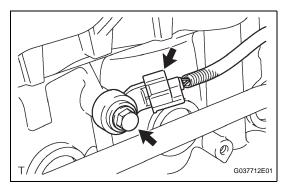
- (k) Disconnect the 3 connectors.
- (I) Remove the nut shown in the illustration.
- (m) Disconnect the engine wire harness from the relay block.

ES



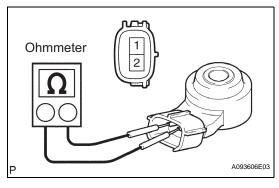
(n) Remove the 5 bolts and 2 nuts, then remove the intake manifold.





9. REMOVE KNOCK CONTROL SENSOR

- (a) Disconnect the knock control sensor connector.
- (b) Remove the bolt, then remove the knock control sensor.



INSPECTION

1. INSPECT KNOCK SENSOR

- (a) Check the resistance.
 - (1) Using an ohmmeter, measure the resistance between the terminals.

Standard

Tester Connection	Specified Condition
1 (Ground) - 2 (Output)	120 to 280 kΩ at 20°C (68°F)

If the result is not as specified, replace the knock sensor.

INSTALLATION

1. INSTALL KNOCK CONTROL SENSOR

(a) Install the knock control sensor with the bolt.

Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf) NOTICE:

Make sure that the knock sensor is at the correct angle when installing.

(b) Connect the knock control sensor connector.

