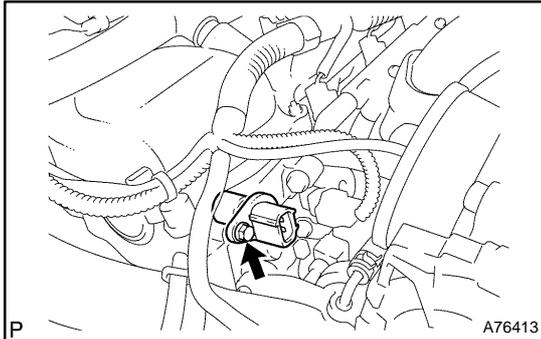


# VVT SENSOR (1GR-FE)

## REPLACEMENT

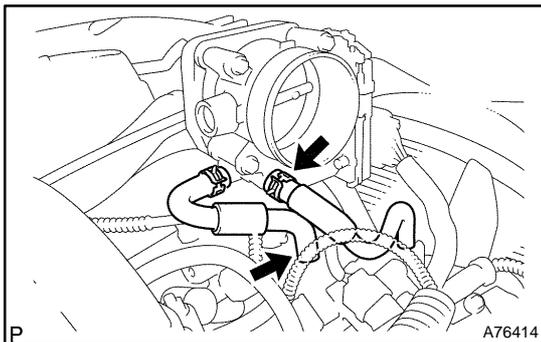
1806I-01

1. DRAIN ENGINE COOLANT (See page 16-5)
2. REMOVE V-BANK COVER (See page 10-7)
3. DISCONNECT VENTILATION HOSE NO.2 (See page 10-7)
4. REMOVE AIR CLEANER ASSY (See page 10-7)

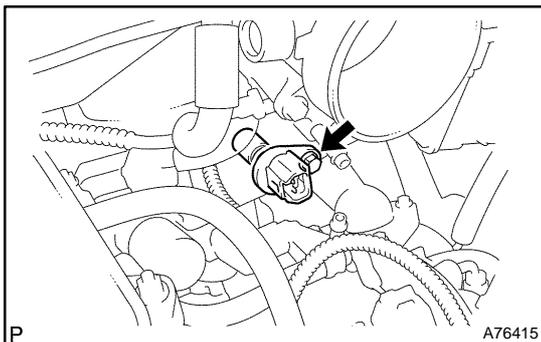


### 5. REMOVE VVT SENSOR

- (a) RH bank side VVT sensor.
  - (1) Disconnect the VVT sensor connector.
  - (2) Remove the bolt and VVT sensor.



- (b) LH bank side VVT sensor.
  - (1) Disconnect the water by-pass hoses No. 4 and No. 5.
  - (2) Disconnect the VVT sensor connector.



- (3) Remove the bolt and VVT sensor.

### 6. INSTALL VVT SENSOR

- (a) LH bank side VVT sensor.
  - (1) Apply a light coat of engine oil to an O-ring of the VVT sensor.
  - (2) Install the VVT sensor with the bolt.

**Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)**

  - (3) Connect the VVT sensor connector.
  - (4) Connect the water by-pass hose No. 4 and No. 5.

- (b) RH bank side VVT sensor.
  - (1) Apply a light coat of engine oil to an O-ring of the VVT sensor.
  - (2) Install the VVT sensor with the bolt.  
**Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)**
  - (3) Connect the VVT sensor connector.
- 7. **INSTALL AIR CLEANER ASSY (See page 10-7 )**
- 8. **CONNECT VENTILATION HOSE NO.2**
- 9. **ADD ENGINE COOLANT (See page 16-5 )**
- 10. **CHECK FOR ENGINE COOLANT LEAKS (See page 16-1 )**
- 11. **INSTALL V-BANK COVER**
  - (a) Install the V-bank cover with the 2 nuts.  
**Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)**