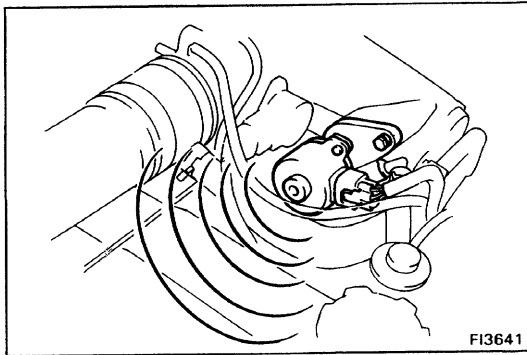
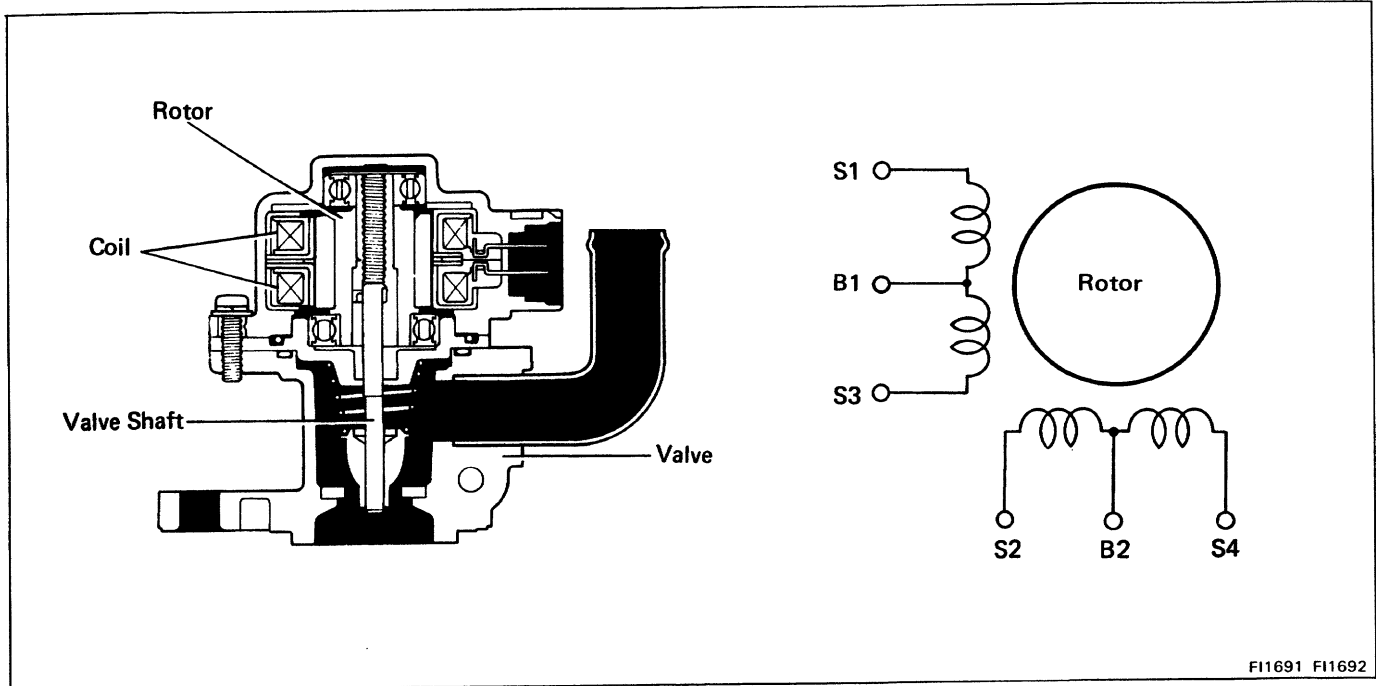


## Idle Speed Control (ISC) Valve



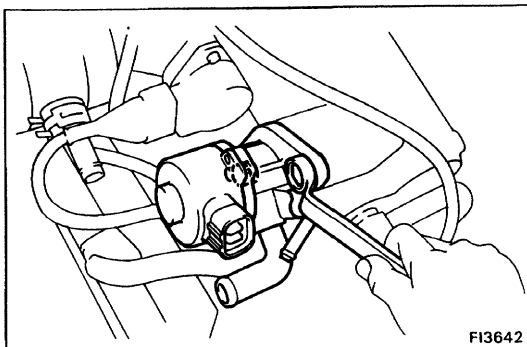
### ON-VEHICLE INSPECTION

#### CHECK FOR OPERATING SOUND FROM ISC VALVE

Check that there is a clicking sound immediately after stopping the engine.

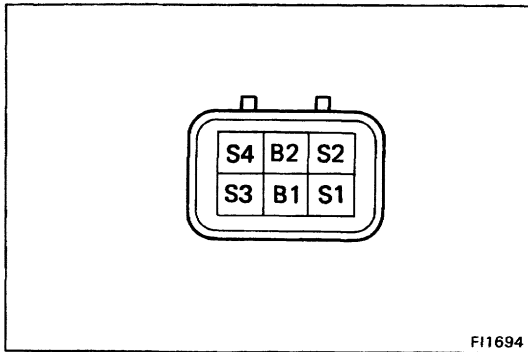
### REMOVAL OF ISC VALVE

1. DRAIN ENGINE COOLANT
2. DISCONNECT ISC VALVE CONNECTOR
3. DISCONNECT AIR HOSE AND NO.2 WATER BY-PASS HOSE



#### 4. REMOVE ISC VALVE

- (a) Remove the two bolts, ISC valve and gasket.
- (b) Disconnect the No.1 water by-pass hose from the ISC valve.



## INSPECTION OF ISC VALVE

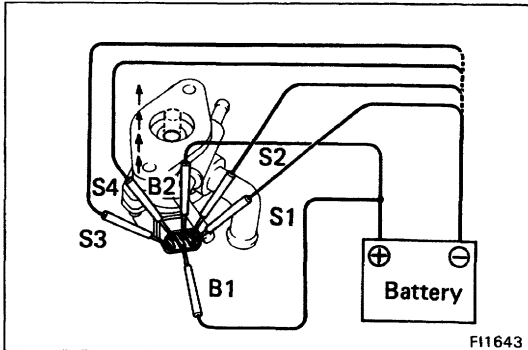
### 1. INSPECT ISC VALVE RESISTANCE

Using an ohmmeter, measure the resistance between terminals B1 – S1 or S3, and B2 – S2 or S4.

**Resistance: B1 – S1 or S3 10 – 30Ω**

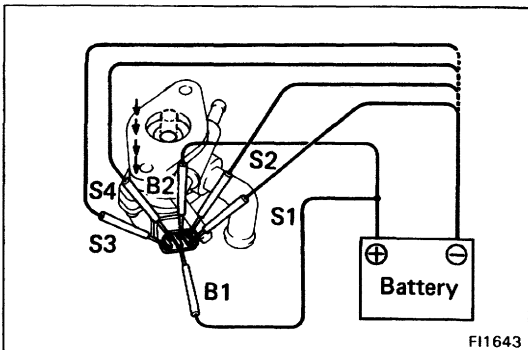
**B2 – S2 or S4 10 – 30Ω**

If resistance is not as specified, replace the ISC valve.



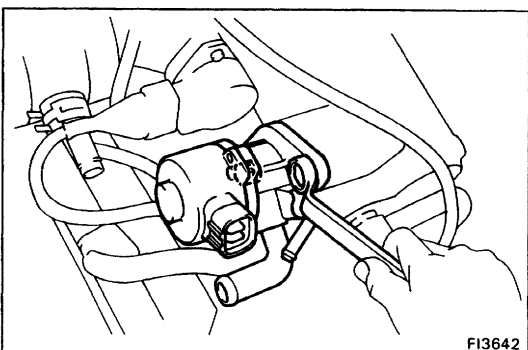
### 2. INSPECT ISC VALVE OPERATION

- (a) Apply battery voltage to terminals B1 and B2, and while repeatedly grounding S1 – S2 – S3 – S4 – S1 in sequence, check that the valve moves toward the closed position.



- (b) Apply battery voltage to terminals B1 and B2, and while repeatedly grounding S4 – S3 – S2 – S1 – S4 in sequence, check that the valve moves toward the open position.

If operation is not as specified, replace the ISC valve.



## INSTALLATION OF ISC VALVE

### 1. INSTALL ISC VALVE

- (a) Connect the No. 1 water by-pass hose to the ISC valve.
- (b) Install a new gasket and ISC valve with the two bolts.

**Torque: 130 kg-cm (9 ft-lb, 13 N-m)**

### 2. CONNECT NO.2 WATER BY-PASS HOSE AND AIR HOSE

### 3. CONNECT ISC VALVE CONNECTER

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