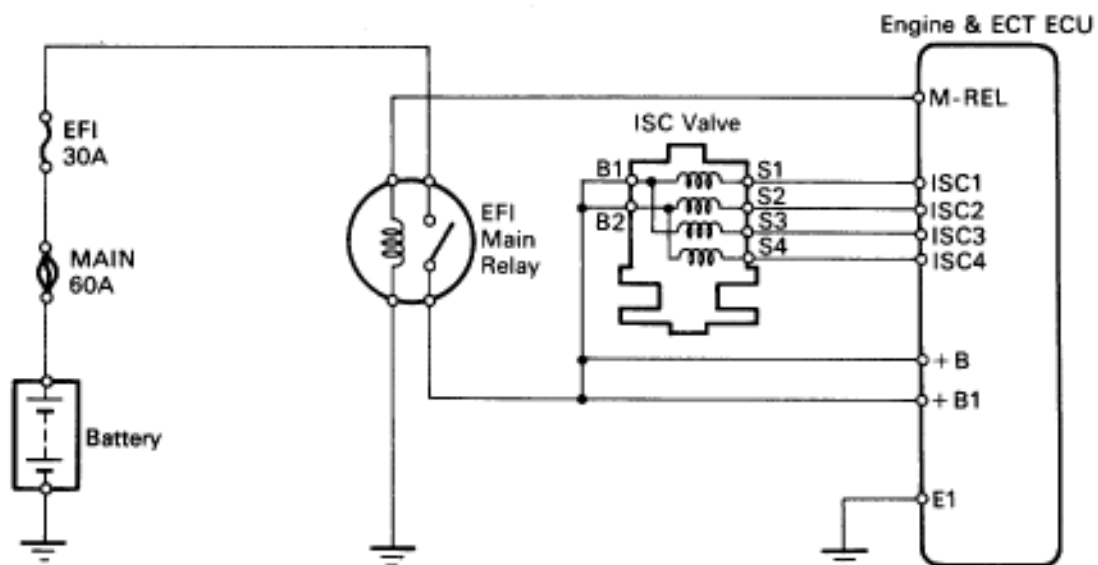
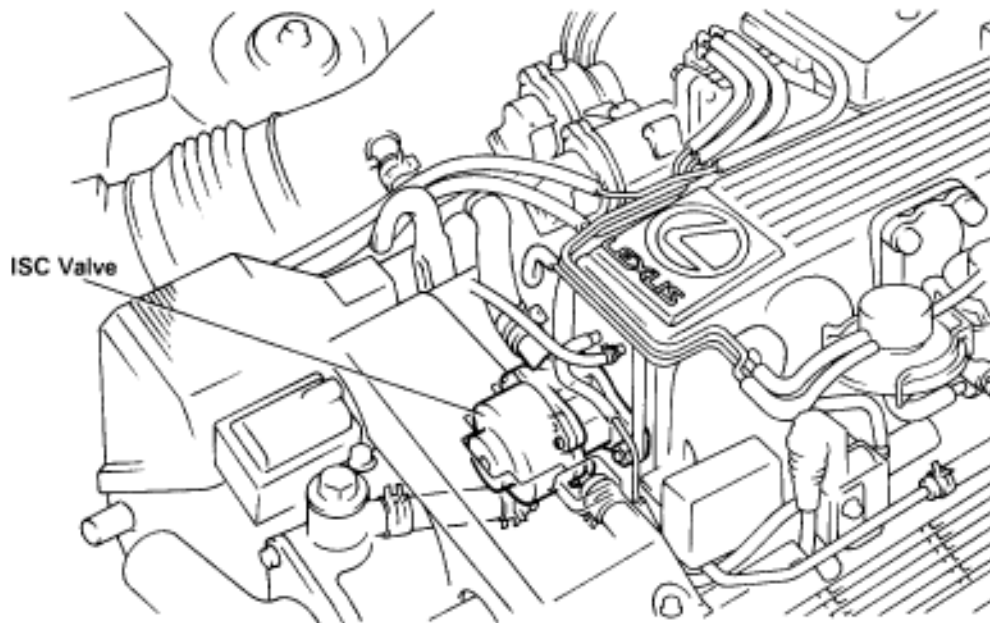
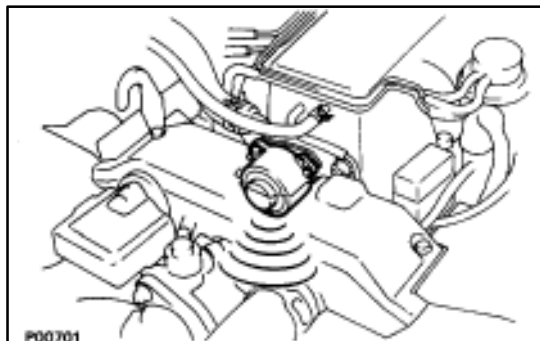


Idle Speed Control (ISC) Valve



P01456
P01315



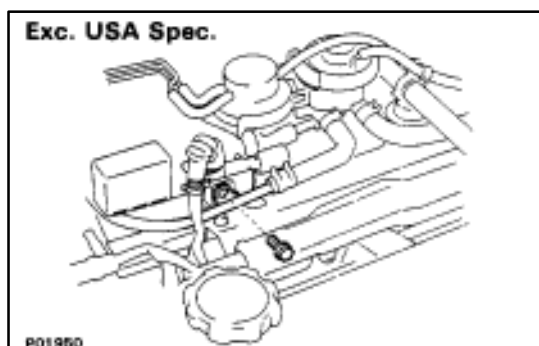
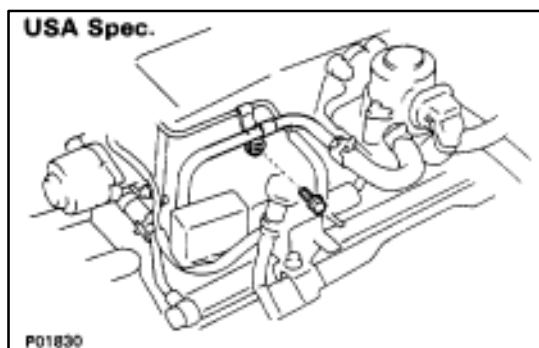
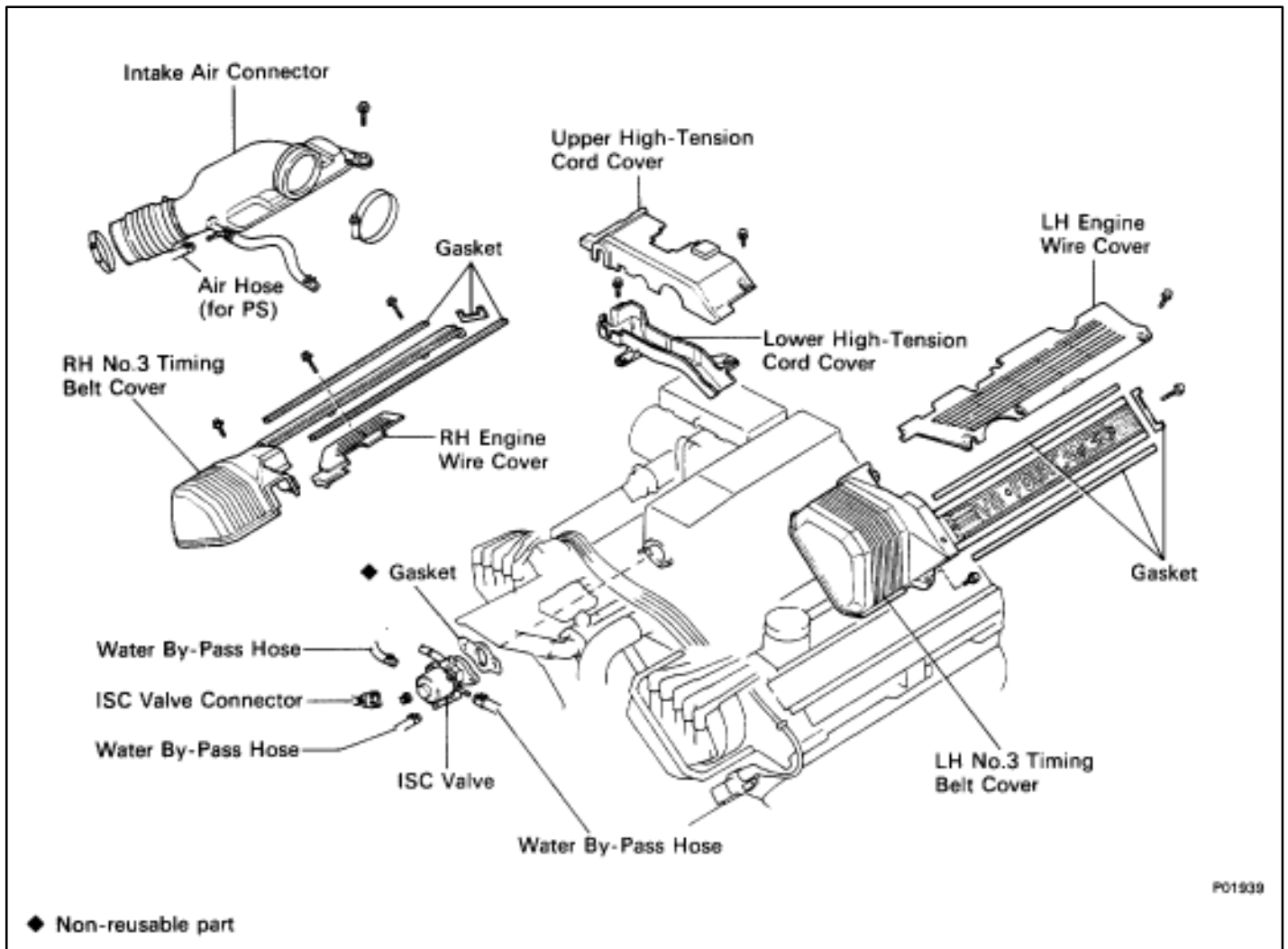
ON-VEHICLE INSPECTION

INSPECT ISC VALVE FOR OPERATING SOUND

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

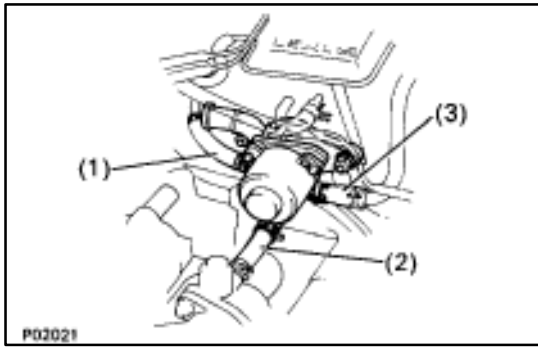
If the rpm operation is not as specified, check the ISC valve, wiring and ECU.

COMPONENTS

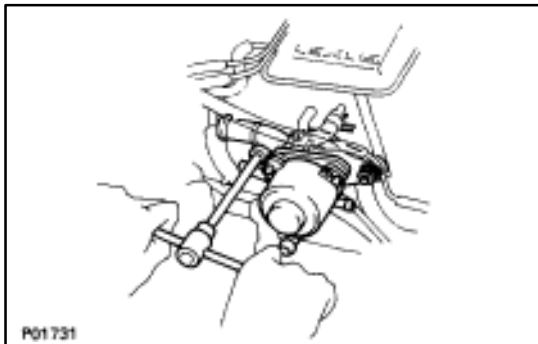


REMOVAL OF ISC VALVE

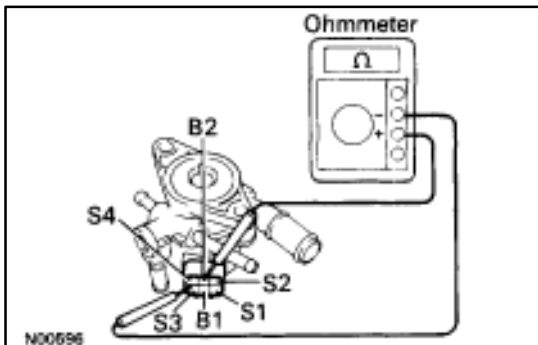
1. **REMOVE LOWER HIGH-TENSION CORD COVER**
(See steps 1, 2 and 5 to 12 on pages [FI-27](#) to 29)
2. **REMOVE ISC VALVE**
 - (a) Disconnect the ISC valve connector.
 - (b) (USA Spec.)
Remove the bolt holding the water by-pass pipe (between ISC valve and EGR valve) to the air intake chamber.
 - (c) (Exc. USA Spec.)
Remove the bolt holding the water by-pass pipe (between ISC valve and EGR valve) to the VSV (for fuel pressure control).



- (d) Disconnect the following hoses from the ISC valve:
- (1) Water by-pass hose (from throttle valve)
 - (2) Water by-pass hose (from water inlet housing)
 - (3) Water by-pass hose (from EGR valve)



- (e) Remove the two nuts, ISC valve and gasket.



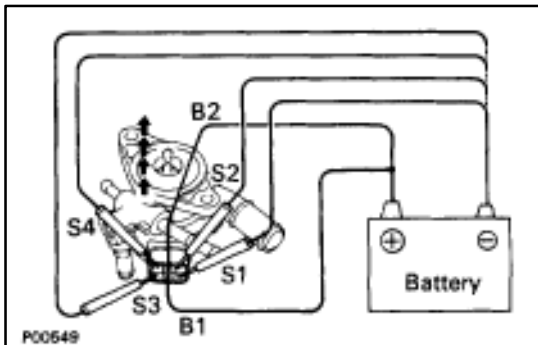
INSPECTION OF ISC VALVE

1. INSPECT ISC VALVE RESISTANCE

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

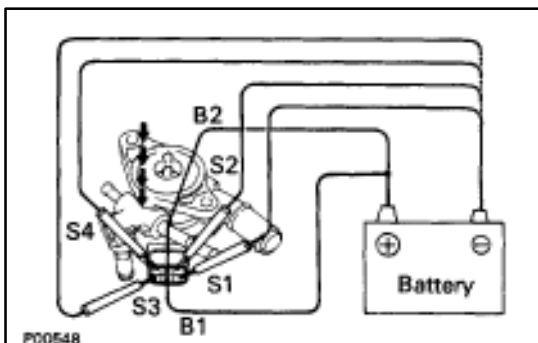
Resistance: 10–30 Ω

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



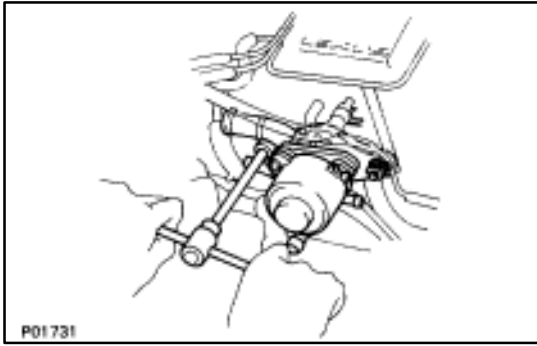
2. INSPECT ISC VALVE OPERATION

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

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

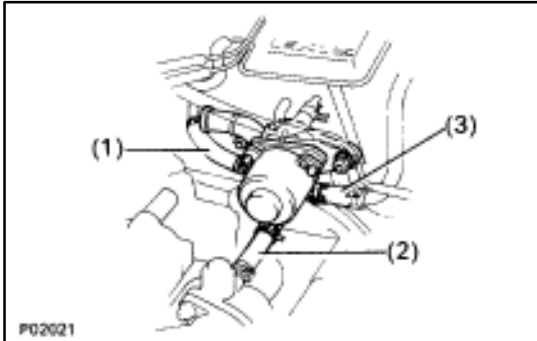


INSTALLATION OF ISC VALVE

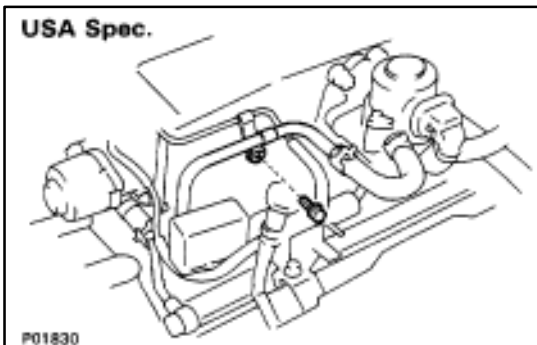
(See Components on page FI-81)

1. INSTALL ISC VALVE

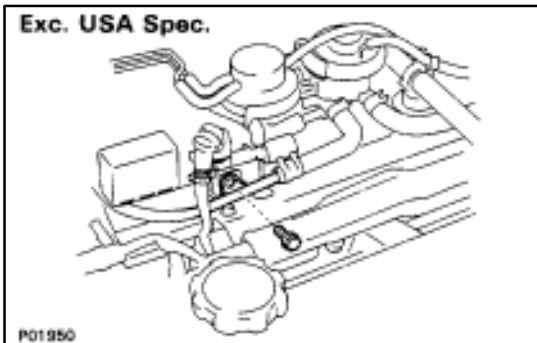
- (a) Install a new gasket and the ISC valve with the two nuts.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)



- (b) Connect the following hoses to the ISC valve:
- (1) Water by-pass hose (from throttle valve)
 - (2) Water by-pass hose (from water inlet housing)
 - (3) Water by-pass hose (from EGR valve)



- (c) (USA Spec.)
Install the vacuum pipe and water by-pass pipe (between ISC valve and EGR valve) to the air intake chamber with the bolt.



- (d) (Exc. USA Spec.)
Install the water by-pass pipe (between ISC valve and EGR valve) to the VSV (for fuel pressure control) with the bolt.
- (e) Connect the ISC valve connector.

1. INSTALL LOWER HIGH-TENSION CORD COVER

(See steps 5 to 13 and 16 to 18 on pages FI-39 to 41)