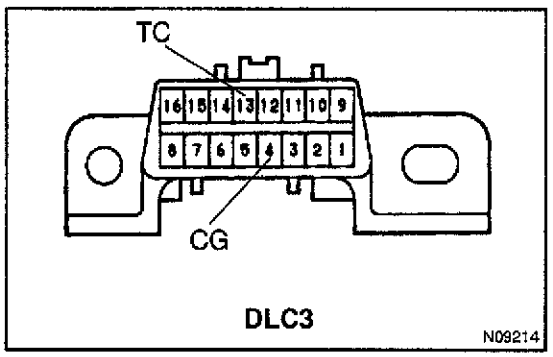
IDLE SPEED CONTROL (ISC) VALVE (2RZ–FE)

ON–VEHICLE INSPECTION

FI01L–01

1. INSPECT ISC VALVE OPERATION

(a) Initial conditions:
- Engine at normal operating temperature
- Idle speed check correctly
- Transmission in neutral position



(b) Using SST, connect terminals 13 (TC) and 4 (CG) of the DLC3.
SST 09843–18020

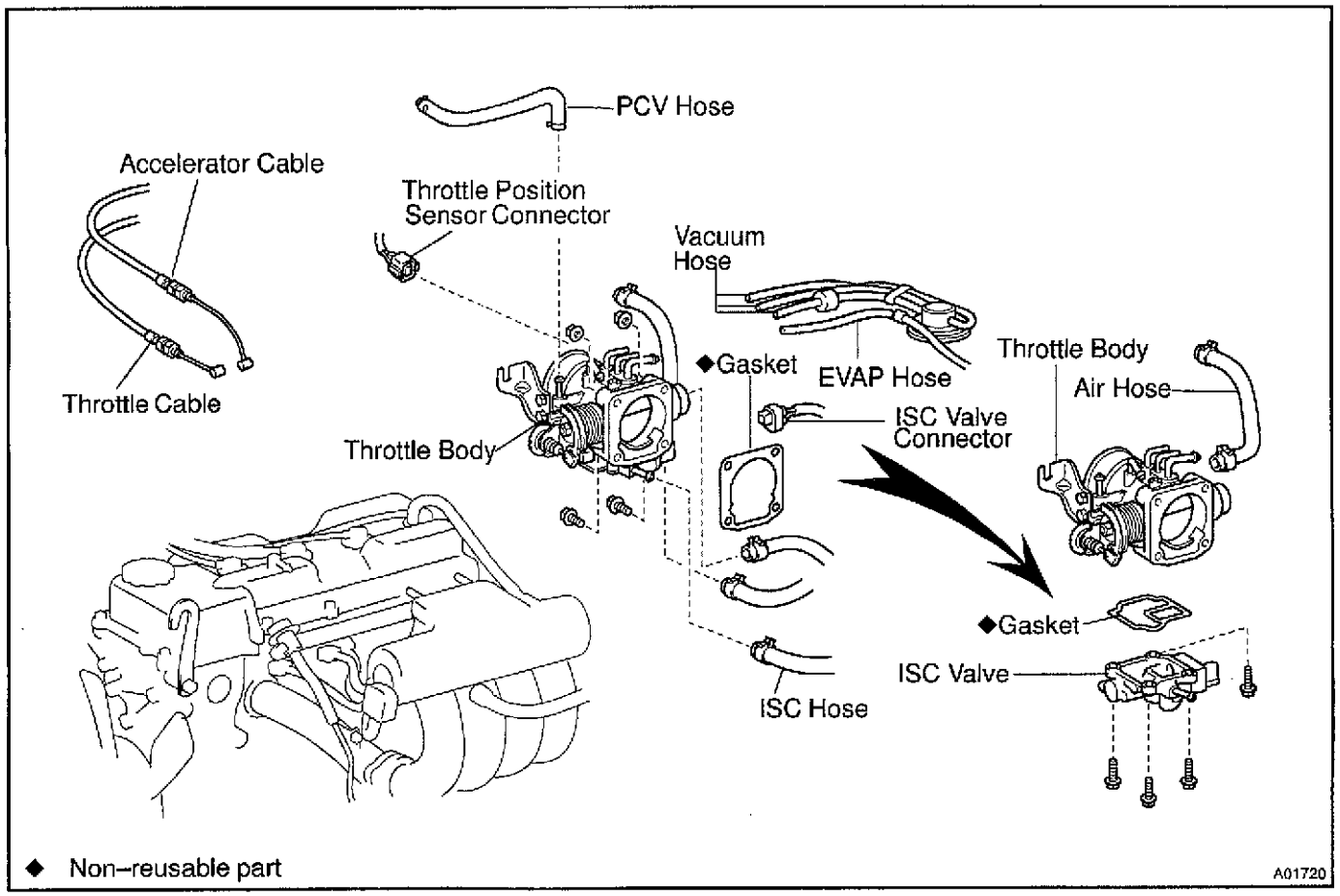
(c) After engine speed are kept at 1,000 – 1,500 rpm for 5 seconds, check that they return to idle speed.

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

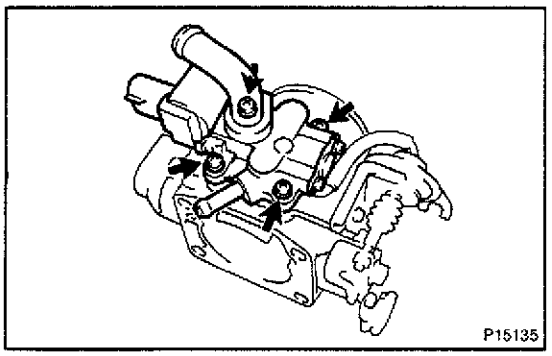
(d) Remove the SST.
SST 09843–18020

FI01M–01

COMPONENTS



FI01N–01



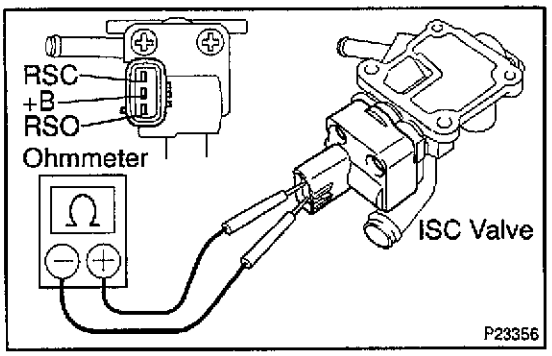
REMOVAL

1. **REMOVE THROTTLE BODY**
   (See page FI–42)
2. **REMOVE ISC VALVE**

Remove the 4 screws, ISC valve and gasket.

FI01O-01

INSPECTION



1. INSPECT ISC VALVE RESISTANCE

NOTICE:

"Cold" and "Hot" in the following sentences express the temperature of the coils themselves. "Cold" is from –10°C (14°F) to 50°C (122°F) and "Hot" is from 50°C (122°F) to 100°C (212°F).

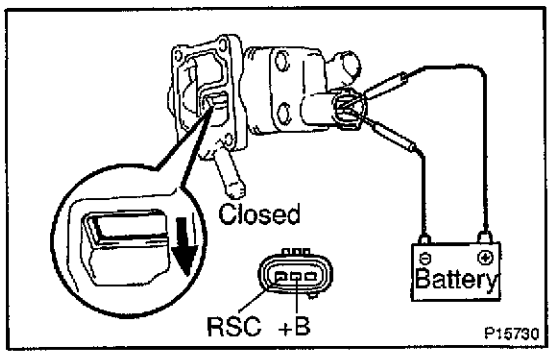
Using an ohmmeter, measure the resistance between terminal +B and other terminals (RSC, RSO).

Resistance:

Cold: 17.0 – 24.5 Ω

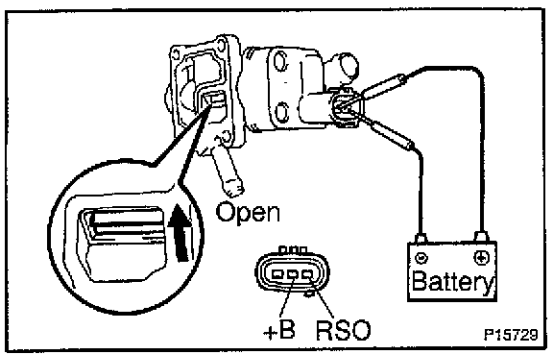
Hot: 21.5 – 28.5 Ω

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

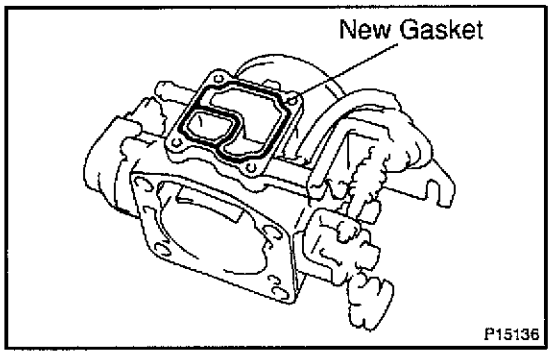


2. INSPECT ISC VALVE OPERATION

(a) Connect the positive (+) lead from the battery to terminal +B and negative (–) lead to terminal RSC, and check that the valve is closed.



(b) Connect the positive (+) lead from the battery to terminal +B and negative (–) lead to terminal RSO, and check that the valve is open.



INSTALLATION

1. **INSTALL ISC VALVE**

(a) Place a new gasket on the throttle body.

(b) Install the ISC valve with the 4 screws.

2. **INSTALL THROTTLE BODY**

(See page FI–42)