

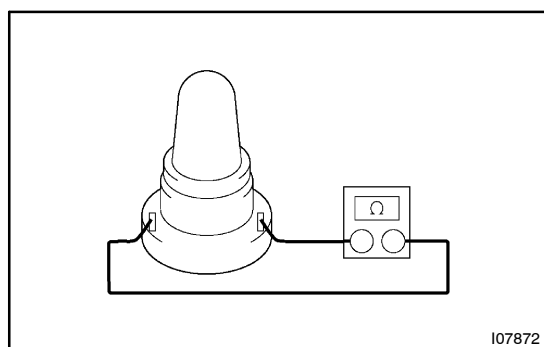
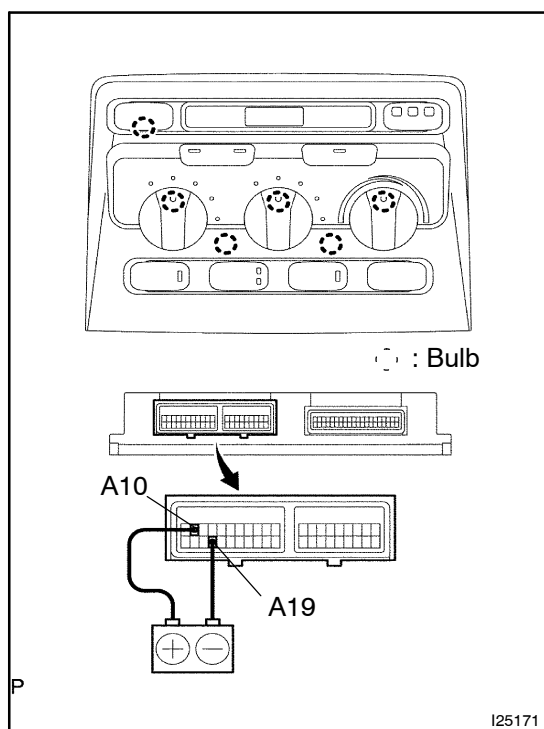
INSPECTION

1. INSPECT ILLUMINATION OPERATION

- (a) Connect the positive (+) lead from the battery to terminal C10 and negative (–) lead to terminal A19 then check that the illuminations lights up.

If operation is not as specified, check the faulty bulb.

- (b) Remove the bulb.



- (c) Apply the tester as shown in the illustration to the test for continuity.

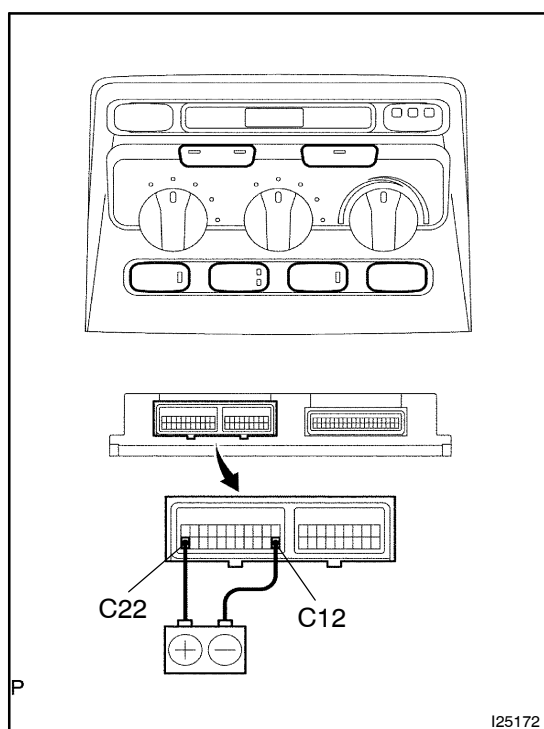
If continuity exists, replace the heater control.

If no continuity exists, replace the bulb.

2. INSPECT INDICATORS OPERATION

- (a) Connect the positive (+) lead from the battery to terminal C22 and negative (–) lead to terminal C12.
- (b) Check that the indicators light up while operate the switches.

If operation is not as specified, replace the heater control.

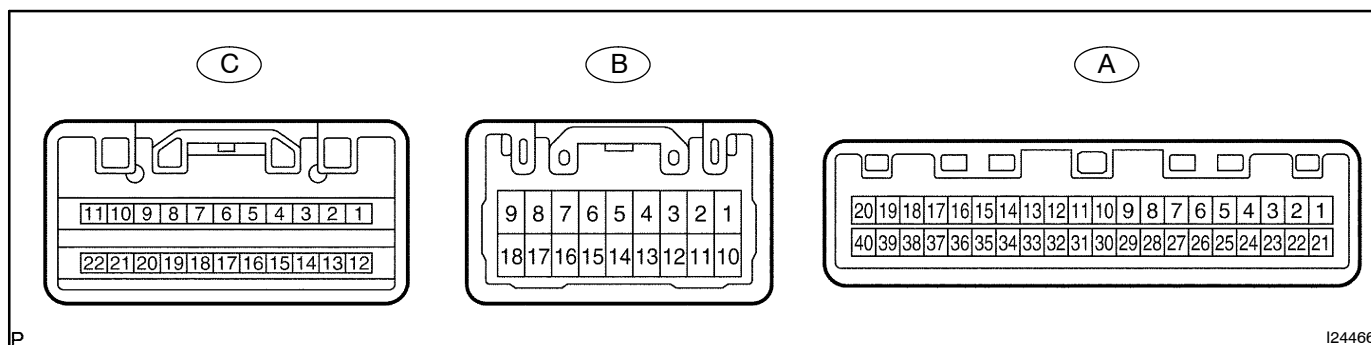


3. INSPECT A/C CONTROL ASSEMBLY CIRCUIT

Connect the connectors to A/C control assembly and inspect wire harness side from the back side as shown in the chart below.

Test conditions:

- Run engine at idle speed
- Set on manifold gauge set



Tester connection	Condition	Specified condition
A1 – C12	Air inlet control switch "FRESH"	Battery voltage
	Air inlet control switch "RECIRC"	Below 1.0 V
A2 – C12	Air inlet control switch "FRESH"	Below 1.0 V
	Air inlet control switch "RECIRC"	Battery voltage
A3 – C12	Rear heater switch "OFF"	Battery voltage
	Rear heater switch "ON"	Below 1.0 V
A4 – C12	Rear heater switch "OFF"	Battery voltage
	Rear heater switch "ON"	Below 1.0 V
A6 – C12	Mirror heater switch "OFF"	Battery voltage
	Mirror heater switch "ON"	Below 1.0 V
A7 – C12 *1	Compressor operate	Battery voltage
	Compressor does not operate	Below 1.0 V
A7 – C12 *2	Compressor operates	Below 1.0 V
	Compressor does not operate	Battery voltage
A9 – C12	Front A/C blower motor operate	Below 1.0 V
	Front A/C blower motor does not operate	Battery voltage
A10 – C12	Rear defogger switch "OFF"	Battery voltage
	Rear defogger switch "ON"	Below 1.0 V
A11 – C12 *2	Compressor operate	Below 1.0 V
	Compressor does not operate	Battery voltage
A12 – C12	Mode control switch "DEF"	Below 0.7 V
	Mode control switch "Except DEF"	Battery voltage
A13 – C12	Mode control switch "FOOT/DEF"	Below 0.7 V
	Mode control switch "Except FOOT/DEF"	Battery voltage
A14 – C12	Mode control switch "FOOT"	Below 0.7 V
	Mode control switch "Except FOOT"	Battery voltage

A15 – C12	Mode control switch "BI-LEVEL"	Below 0.7 V
	Mode control switch "Except BI-LEVEL"	Battery voltage
A16 – C12	Mode control dial "FACE"	Below 0.7 V
	Mode control dial "Except FACE"	Battery voltage
A17 – C12	Rear heater switch "HI"	Below 1.0 V
	Rear heater switch "OFF"	No voltage
A18 – C12	Rear heater switch "LO"	Below 1.0 V
	Rear heater switch "OFF"	No voltage
A19 – C12	Front blower control dial "LO"	Below 1.0 V
A20 – C12	A/C switch "ON"	Below 1.0 V
	A/C switch "OFF"	Battery voltage
A21 – C12	Temperature control dial "MAX. COOL"	Below 1.0 V
	Temperature control dial "MAX. WARM"	Battery voltage
A22 – C12	Temperature control dial "MAX. COOL"	Battery voltage
	Temperature control dial "MAX. WARM"	Below 1.0 V
A24 – C12	Hazard switch "ON"	Continuity
A25 – C12	Diff. lock switch "OFF"	Continuity
A26 – C12	Diff. lock switch "OFF"	Continuity
A27 – C12	Diff. lock switch "ON"	Continuity
A28 – C12	Push in antenna up switch	Continuity
A29 – C12	Push in antenna down switch	Continuity
A37 – C12	Front blower control dial "HI"	Below 1.0 V
A38 – C12	Front blower control dial "M1"	Below 1.0 V
A39 – C12	Rear cooler blower motor operate	Below 1.0 V
	Rear cooler blower motor does not operate	Battery
A40 – C12	Rear cooler switch "ON"	Below 1.0 V
	Rear cooler switch "OFF"	Battery voltage
B3 – C12	Rear cooler switch "OFF"	No voltage
	Rear cooler switch "ON"	Below 1.0 V
B5 – B18	Temperature control dial "MAX. COOL"	Approx. 4.0 V
	Temperature control dial "MAX. WARM"	Approx. 1.0 V
B6 – B18	Cool box evaporator temperature at 25 °C (77 °F)	1.4 – 1.8 V
B7 – B18	Ambient temperature at 25 °C (77 °F)	1.35 – 1.75 V
B9 – B18	Trun ignition switch "ON"	5.0 V
	Trun ignition switch "OFF"	No voltage
B11 – C12	Cool box control switch "OFF"	Battery voltage
	Cool box control switch "NORMAL"	Below 1.0 V
B12 – C12	Cool box control switch "NORMAL"	Battery voltage
	Cool box control switch "MAX"	Below 1.0 V
B13 – C12	Cool box control switch "OFF"	Battery voltage
	Cool box control switch "NORMAL"	Below 1.0 V
B14 – B18	Air inlet control switch "FRESH"	Approx. 1.0 V
	Air inlet control switch "RECIRC"	Approx. 4.0 V
B16 – B18	Evaporator temperature at 15 °C (59 °F)	1.4 – 1.8 V
B18 – Body ground	Always	Continuity

C4 – C12 *1	Compressor operate	Below 1.0 V
	Compressor does not operate	No voltage
C4 – C12 *2	Compressor operate	No voltage
	Compressor does not operate	Below 1.0 V
C7 – C12	Cool box control switch "OFF"	Battery voltage
	Cool box control switch "COOL"	No voltage
C8 – C12	Refrigerant pressure at 196 – 3,140 kPa	Below 1.0 V
	Refrigerant pressure at below 196 kPa or over 3,140 kPa	No voltage
C9 – C12	Rear heater switch "OFF"	Battery voltage
	Rear heater switch "ON"	Below 1.0 V
C10 – C12	Light control switch "TAIL"	Battery voltage
	Light control switch "OFF"	No voltage
C11 – C12	Always	Battery voltage
C12 – Body ground	Always	Continuity
C13 – C12	Rear A/C switch "OFF"	No voltage
	Rear A/C switch "ON"	Below 1.0 V
C14 – C12 *3	Turn ignition switch "ON"	Below 1.0 V
	Turn ignition switch "OFF"	No voltage
C19 – C12	Light control switch "TAIL"	Below 1.0 V
	Light control switch "OFF"	No voltage
C21 – Ground	Turn ignition switch "ACC"	Battery voltage
	Turn ignition switch "OFF"	No voltage
C22 – C12	Light control switch "ON"	Battery voltage
	Light control switch "OFF"	No voltage

*1: 2UZ-FE Models

*2: Except 2UZ-FE Models

*3: RHD Models

If the circuits is as specified, try to replace the amplifier with a new one.

If the circuits is not as specified, inspect the circuits connected to other parts.