

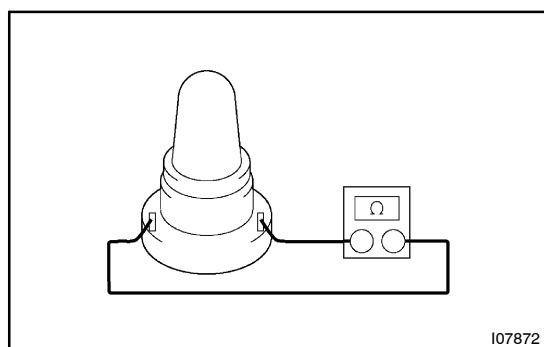
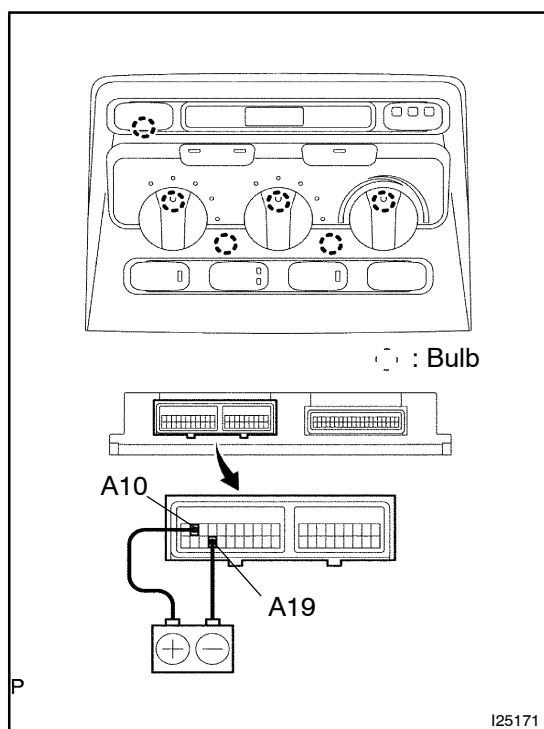
INSPECTION

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.

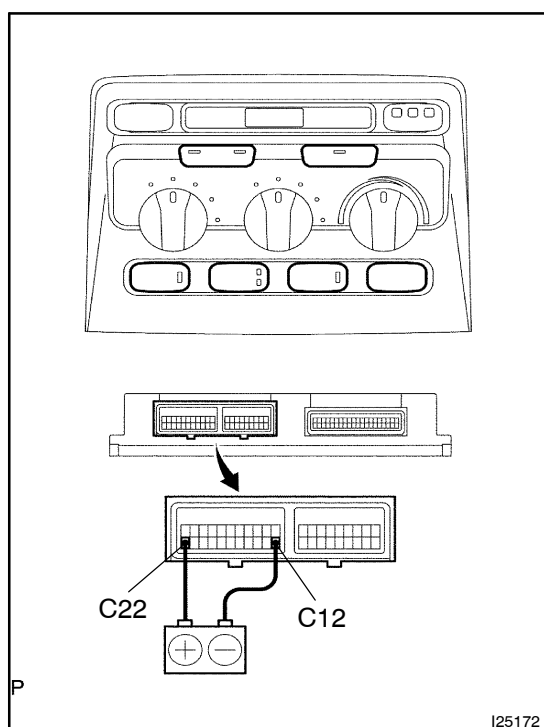
If continuity exists, replace the heater control.

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.

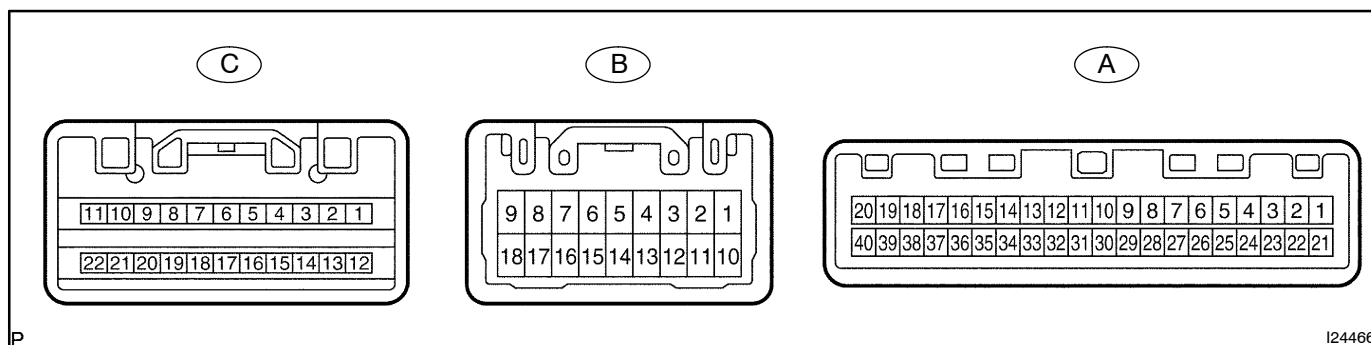


3. INSPECT A/C CONTROL ASSEMBLY CIRCUIT

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.