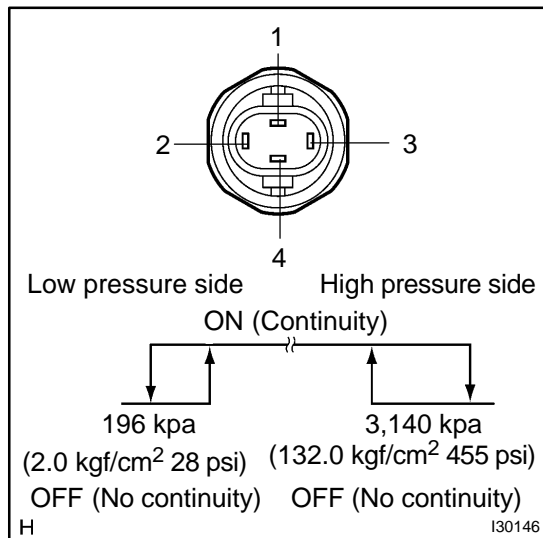


## ON-VEHICLE INSPECTION



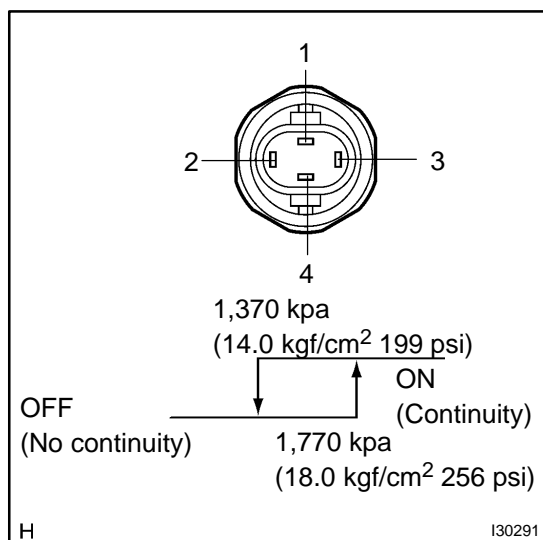
### 1. INSPECT PRESSURE SWITCH NO.1.

#### (a) Magnetic clutch control:

Inspect pressure switch operation.

- (1) Set on the manifold gauge set.
- (2) Connect the positive (+) lead from the ohmmeter to terminal 4 and the negative (-) lead to terminal 1.
- (3) Check continuity between terminals when refrigerant pressure is changed, as shown in the illustration.

If operation is not as specified, replace the pressure switch.

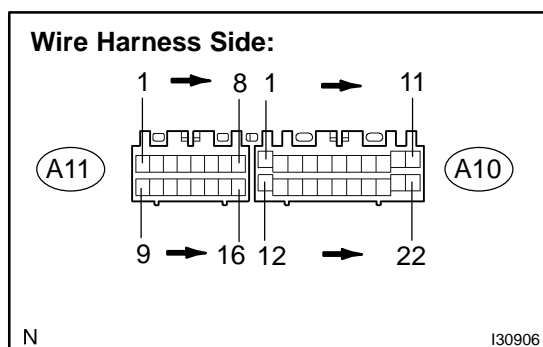


#### (b) Cooling fan control:

Inspect pressure switch operation.

- (1) Connect the positive (+) lead from the ohmmeter to terminal 2 and the negative (-) lead to terminal 3.
- (2) Check continuity between terminals when refrigerant pressure is changed, as shown in the illustration.

If operation is not as specified, replace the pressure switch.

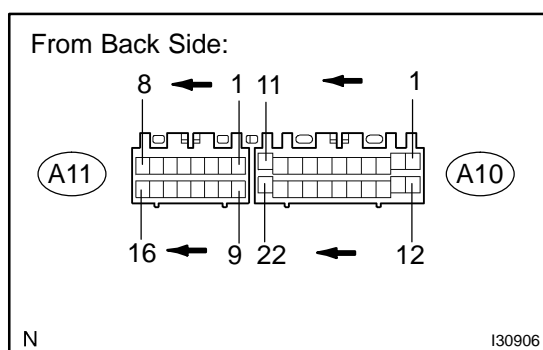


## 2. INSPECT AIR CONDITIONER AMPLIFIER ASSY CIRCUIT

- (a) Disconnect the connectors from the A/C amplifier assy and inspect the connector on the wire harness side, as shown the chart.

| Symbols (Terminals No.)    | Wiring Color      | Condition                         | Specified condition      |
|----------------------------|-------------------|-----------------------------------|--------------------------|
| A10-11 (GND) - Body Ground | W-B - Body Ground | Constant                          | Continuity               |
| A11-5 (TE) - A11-12 (SG-1) | LG - P            | Evaporator temp.: 25°C (77°F)     | 1.5 kΩ                   |
| A10-2 (IG) - Body Ground   | BR - Body Ground  | Turn ignition switch: ON          | Battery positive voltage |
| A10-2 (IG) - Body Ground   | BR - Body Ground  | Turn ignition switch: LOCK or ACC | No voltage               |
| A10-12 (+B) - Body Ground  | W - Body Ground   | Constant                          | Battery positive voltage |
| A10-13 (ACC) - Body Ground | GR - Body Ground  | Turn ignition switch: ACC         | Battery positive voltage |
| A10-13 (ACC) - Body Ground | GR - Body Ground  | Turn ignition switch: except ACC  | No voltage               |

If the circuit is as specified, try to replace the A/C amplifier assy with a new one. If the circuit is as specified, inspect the circuits connected to other parts.



- (b) Connect the connector to A/C amplifier assy and inspect the wire harness side connector from the back side, as shown in the chart.

| Symbols (Terminals No.)    | Wiring Color    | Condition  | Specified condition      |
|----------------------------|-----------------|--|--------------------------|
| A10-4 (MR/F) - Body Ground | Y - Body Ground | Turn ignition switch ON  | Battery positive voltage |
| A10-4 (MR/F) - Body Ground | Y - Body Ground | Turn ignition switch OFF   | Below 1 V                |
| A10-5 (AIR) - Body Ground  | B - Body Ground | Turn ignition switch ON and air flow selector at DEF position        | Below 1 V                |
| A10-5 (AIR) - Body Ground  | B - Body Ground | Turn ignition switch ON and air flow selector at except DEF position | Battery positive voltage |

| Symbols (Terminals No.)       | Wiring Color     | Condition  | Specified condition      |
|-------------------------------|------------------|--|--------------------------|
| A10-6 (AIF) - Body Ground     | W - Body Ground  | Turn ignition switch ON and air inlet control selector at FRESH          | 10 - 14 V                |
| A10-6 (AIF) - Body Ground     | W - Body Ground  | Turn ignition switch ON and air inlet control selector at RE-CIRCULATION | Below 1 V                |
| A10-7 (HR) - Body Ground      | O - Body Ground  | Turn ignition switch ON and operate the blower motor                     | Below 1 V                |
| A10-7 (HR) - Body Ground      | O - Body Ground  | Turn ignition switch ON and does not operate the blower motor            | Battery positive voltage |
| A10-9 (MPX-)                  | G                | Multiplex communication circuit  | -                        |
| A10-15 - A10-21               | V (*1)           | Ignition switch ON and light control rheostat volume DARK                | No voltage               |
| A10-15 - A10-21               | V (*1)           | Ignition switch ON and light control rheostat volume LIGHT               | Battery voltage          |
| A11-2 (MPX+)                  | V (*2)<br>G (*3) | Multiplex communication circuit  | -                        |
| A11-6 (TPO) - A11-1 (SG-4)    | R - B            | Turn ignition switch ON and air flow selector at DEF position            | 0.5 - 1.5 V              |
| A11-6 (TPO) - A11-1 (SG-4)    | R - B            | Turn ignition switch ON and air flow selector at FACE position           | 4.5 - 5.5 V              |
| A11-7 (AOD) - Body Ground     | G - Body Ground  | Turn ignition switch ON and air flow selector at DEF position            | Battery positive voltage |
| A11-7 (AOD) - Body Ground     | G - Body Ground  | Turn ignition switch ON and air flow selector at except FACE position    | Below 1 V                |
| A11-8 (AOF) - Body Ground     | V - Body Ground  | Turn ignition switch ON and air flow selector at except FACE position    | Below 1 V                |
| A11-8 (AOF) - Body Ground     | V - Body Ground  | Turn ignition switch ON and air flow selector at FACE position           | Battery positive voltage |
| A11-9 (S5-4) - A11-1 (SG-4)   | BR - B           | Turn ignition switch ON  | 4.5 - 5.5 V              |
| A11-10 (TP) - A11-12 (SG-1)   | SB - P           | Turn ignition switch ON and set temp.: MAX. COOL position                | 4.5 - 5.5 V              |
| A11-10 (TP) - A11-12 (SG-1)   | SB - P           | Turn ignition switch ON and set temp.: MAX. WARM position                | 0.5 - 1.5 V              |
| A11-11 (S5-1) - A11-12 (SG-1) | O - P            | Turn ignition switch ON  | 4.5 - 5.5 V              |
| A11-13 (AMC) - A11-1 (SG-4)   | GR - B           | Turn ignition switch ON and set temp.: MAX. COOL position                | Battery positive voltage |
| A11-13 (AMC) - A11-1 (SG-4)   | GR - B           | Turn ignition switch ON and set temp.: MAX. WARM position                | Below 1 V                |
| A11-14 (AMH) - A11-1 (SG-4)   | B - B            | Turn ignition switch ON and set temp.: MAX. COOL position                | Below 1 V                |
| A11-14 (AMH) - A11-1 (SG-4)   | B - B            | Turn ignition switch ON and set temp.: MAX. WARM position                | Battery positive voltage |

- \*1: If the circuit is as specified, try to replace the A/C amplifier assy with a new one. If the circuit is as specified, inspect the circuits connected to other parts.
- \*2: w/ Navigation System.
- \*3: w/o Navigation System.