## ■ AIR CONDITIONING CONTROL

### 1. Function of Main Components

**► Room Cooler System for the Manual Air Conditioner ◄**

| Component | | Function |
|---|---|---|
| Air Conditioning Amplifier Assembly | | Controls the room cooler by signals from switches, sensors, and other devices. |
| Air Conditioning Control Assembly | | Switches the recirculation/fresh air and configures the blow temperature and blower level. |
| Room Cooler Unit (Cooler Unit Assembly) | No. 1 Cooler Thermistor | Detects the blow temperature of the room cooler unit (cooler unit assembly). |
| | Blower Resistor (Room Cooler) | Changes the resistance value according to operation of the room cooler blower lever and controls the number of revolutions of the room cooler blower motor (blower motor with fan sub-assembly). |
| | Room Cooler Blower Motor (Blower Motor with Fan Sub-assembly) | Driven by the current from the blower resistor (room cooler) and distributes air inside the vehicle. |
| Compressor with Magnet Clutch Assembly | | Suctions, compresses, and ejects the refrigerant. |
| Condenser with Receiver Assembly | No. 1 Pressure Switch | Detects the refrigerant pressure. |
| | Condenser Blower Motor Assembly | Cools cooler condenser core. |
| Roof Ventilator Damper Servo Sub-assembly | | Driven according to operation of the room cooler recirculation/fresh air selector switch and open and close the recirculation/fresh air control door for the room cooler. |
| Air Conditioning Idle Up VSV (Vacuum Switching Valve Assembly)*1 | | Driven by signals from the air conditioning compressor relay. |
| ECM*2 | | Outputs signals to the air conditioning amplifier assembly. |

*1: Models with air conditioning idle up VSV (vacuum switching valve assembly)
*2: Models without 14B or 1HZ engine

**► Front Heater System for the Manual Air Conditioner ◄**

| Component | | Function |
|---|---|---|
| Air Conditioning Control Assembly | Front Heater Blower Lever | Configures the blower level. |
| | Front Heater Temperature Control Lever | Configures the blower temperature. |
| Front Heater Unit | Heater Blower Resistor (Front Heater) | Changes the resistance value according to operation of the front heater blower lever and controls the number of revolutions of the front heater blower motor (front heater blower case sub-assembly). |
| | Front Heater Blower Motor (Front Heater Blower Case Sub-assembly) | Driven by the current from the heater blower resistor (front heater) and distributes air inside the vehicle. |

**► Rear Heater System for the Manual Air Conditioner ◄**

| Component | | Function |
|---|---|---|
| Air Conditioning Control Assembly | Rear Heater Blower Lever | Configures the blower level. |
| | Rear Heater Temperature Control Lever | Configures the blower temperature. |
| Rear Heater Assembly/ No. 2 Rear Heater Assembly | Heater Blower Resistor (Rear Heater) | Changes the resistance value according to operation of the rear heater blower lever and controls the number of revolutions of the rear heater blower motor (rear heater blower case sub-assembly). |
| | Rear Heater Blower Motor (Rear Heater Blower Case Sub-assembly) | Driven by the current from the heater blower resistor (rear heater) and distributes air inside the vehicle. |

## 2. System Control

### 1) Temperature Control (Room Cooler System for the Manual Air Conditioner)

Detects the evaporator blow temperature from No. 1 cooler thermistor and switches the magnet clutch on and off when the room cooler is on. At maximum cooling, switches off at 3°C or lower and switches on at 4°C or higher.

### 2) Air Conditioning Shutoff Control During Acceleration (Room Cooler System for the Manual Air Conditioner)

If an air conditioner shutoff signal is input from the ECM, the magnet clutch of the interim compressor with magnet clutch assembly is switched off.