

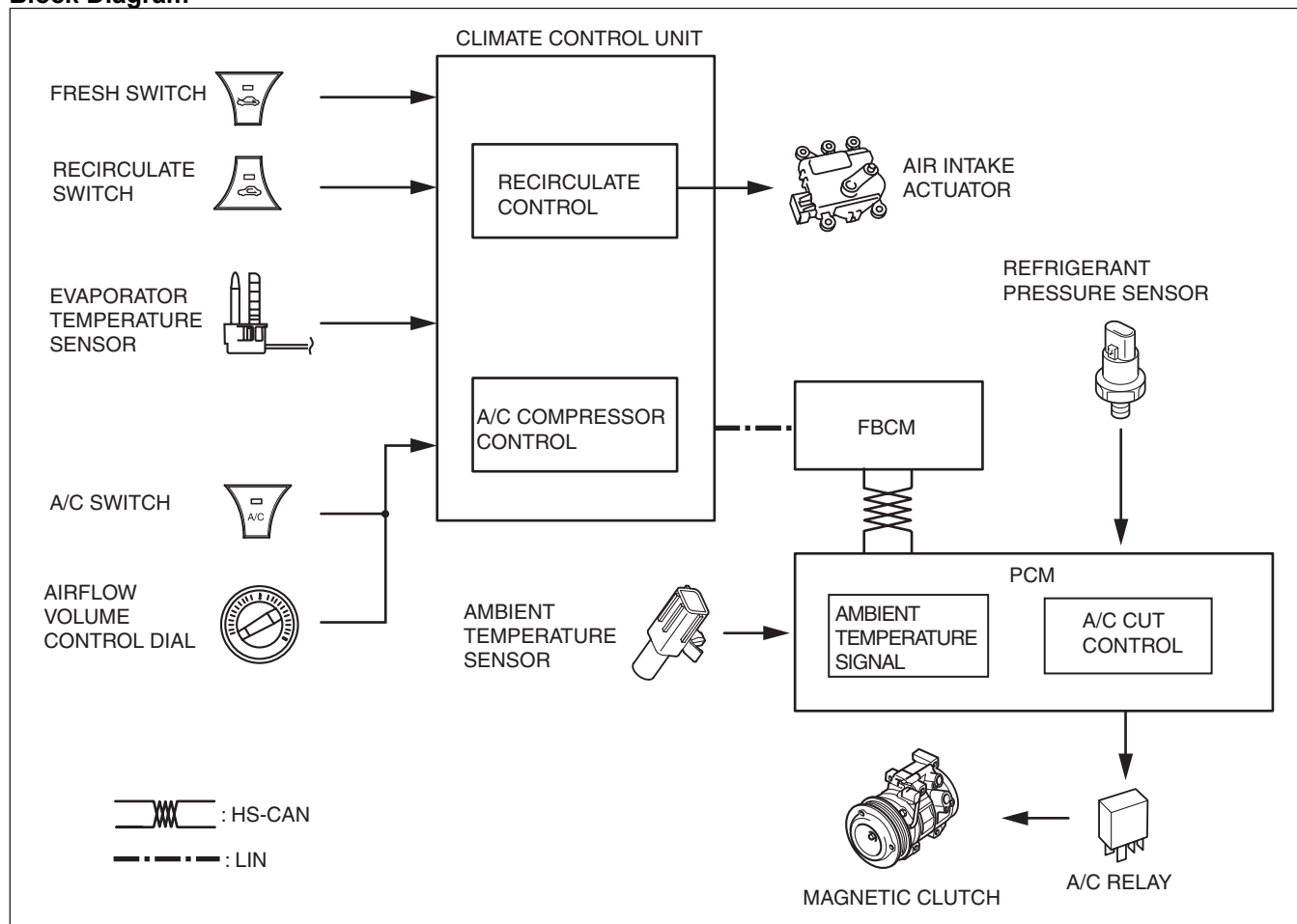
MANUAL AIR CONDITIONER CONTROL SYSTEM [MANUAL AIR CONDITIONER]

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Outline

- The climate control unit performs the following controls based on the signals from each switch/dial and the sensor.
 - A/C compressor control
 - Defroster control
 - i-stop control

Block Diagram



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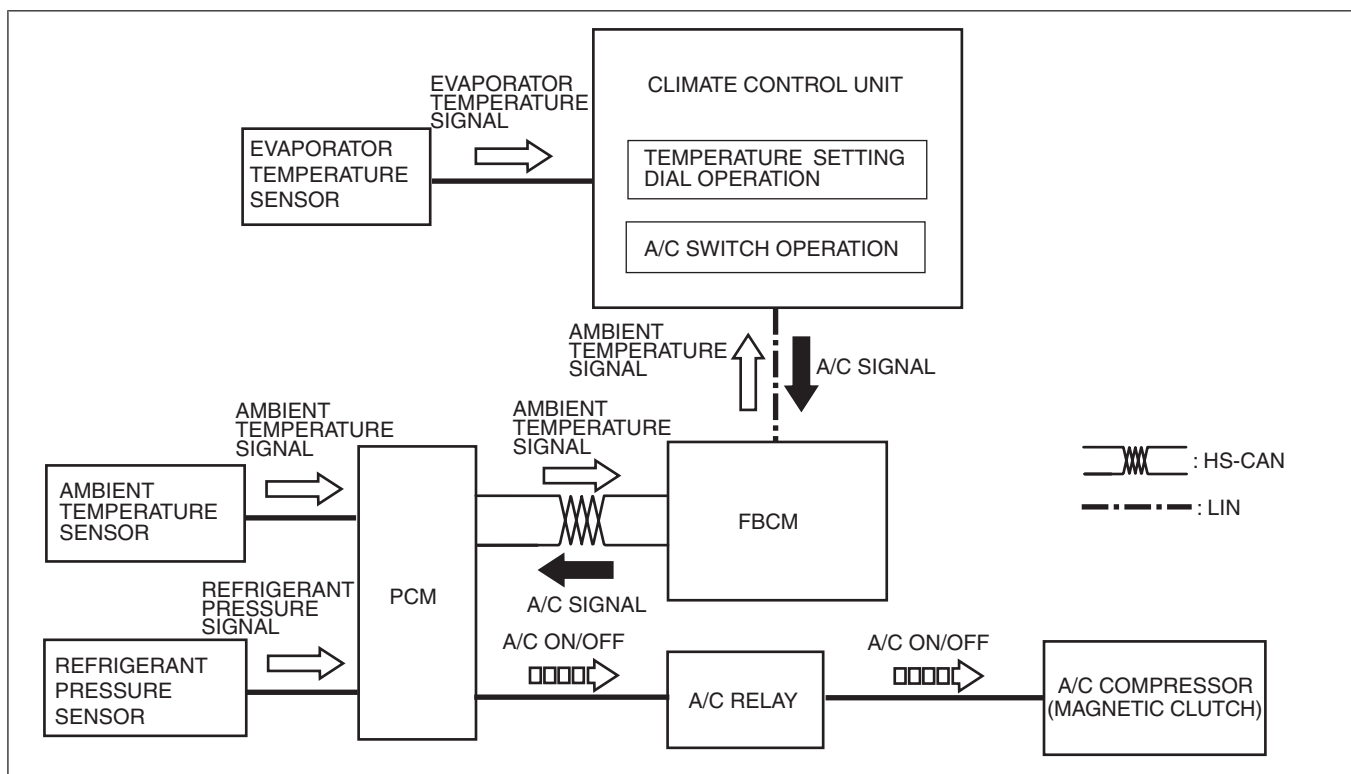
Outline of Control System

- Manual air conditioner has the following control.

Control name	Control part
<ul style="list-style-type: none"> • A/C compressor control • Defroster control • i-stop control 	Climate control unit

A/C Compressor Control

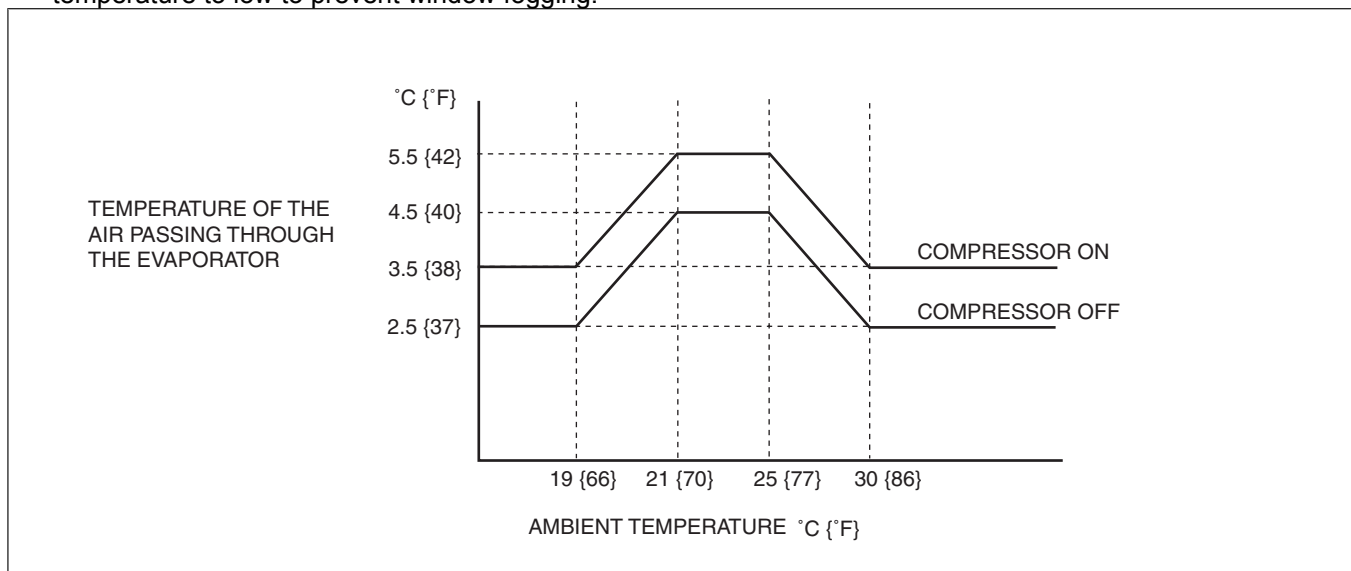
- The climate control unit sends the A/C signal to the PCM based on the signals sent from the A/C switch, airflow volume control dial, and evaporator temperature sensor.
- The PCM turns the A/C relay on/off based on the input signals from the A/C signal and A/C pressure sensor and controls the A/C compressor (magnetic clutch) operation.



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A/C signal on/off control

- When the A/C switch and fan switch are turned on, the climate control unit turns the A/C signal (magnetic clutch) on/off based on the temperature of the air passing through the evaporator.
- When the fan switch and A/C switch are turned on, the climate control unit controls the surface temperature of the evaporator so that it is within a certain range to prevent the evaporator from freezing.
- When the ambient temperature is low, the climate control unit sets the A/C signal (magnetic clutch) off-temperature to low to prevent window fogging.



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Defroster control

- The defroster control improves the defrosting effect.
- When the defroster switch turns on, the climate control unit fixes the air intake mode to FRESH.
- The air intake is fixed at FRESH even if it has been set to REC manually.