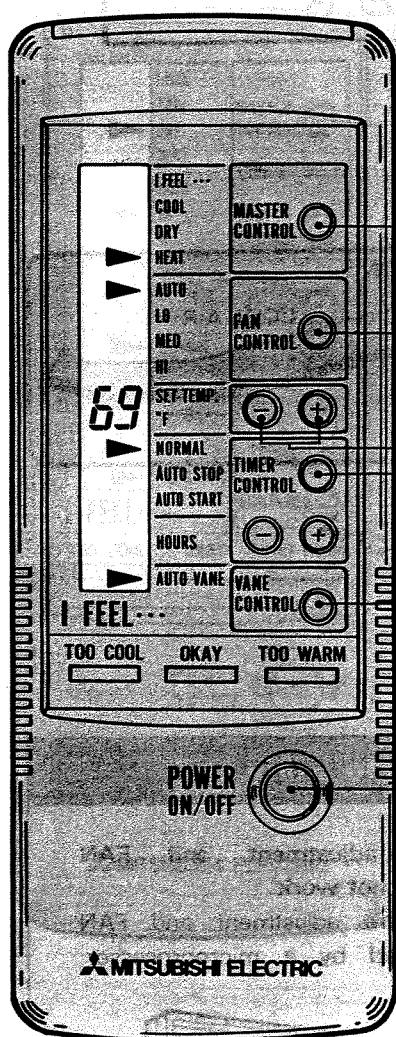


(4) HEATING operation

● How to set the CONTROLS.

Once the controls are set, the same operation mode can be repeated by simply turning the POWER switch ON.



1

Press **POWER** ON/OFF button.

2

Select **HEAT** mode.

3

Select the desired fan speed.

4

Set to **AUTO VANE** mode.
(Refer to page 16,17)

- **AUTO VANE** mode is recommended for optimum temperature distribution of the room.

5

Set to desired room temperature
(Refer to page 19)

6

Set to **NORMAL**.

STOP

Press **POWER** ON/OFF button.

Once the air conditioner is turned off, it will not restart for about 3 minutes to protect the compressor.

Heating operation characteristics

■ Relations between outdoor temperature and heating capacity.

Heating capacity is closely related to outdoor temperature, therefore, heating capacity decreases as the outdoor temperature does. If heating is not sufficient, use of an additional heater is recommended.

■ Defrosting operation

The heat exchanger of the outdoor unit may become frosted and heating performance may be lowered when the outdoor temperature is extremely low. To prevent a decrease in heating capacity, the automatic defrosting device functions for 5 to 15 minutes.

(The defrosting time varies with the outdoor temperature.)

In the above case, the indoor fan stops and after defrosting, it automatically restarts.

■ Warming up circuit

Setting to AUTO START during heating automatically detects the room temperature 1 hour before the set time, then starts operation at the time shown belows to have the room comfortable upon your return.

Room temperature	Operation start time
32°F or below	50 minutes before
32°F to 41°F	40 minutes before
41°F to 50°F	30 minutes before
50°F or over	20 minutes before

■ Air flow control for heating

Prevention of cold air flow at start of operation.

The indoor fan runs at the very low speed until the indoor unit warms up before normal fan speed occurs during heating operation.

As the discharge air temperature rises, the indoor unit fan raises from very low up to the set speed.

■ When the room temperature is satisfied and the outdoor unit turns off, the indoor fan will run at the very low speed to prevent stratification.

■ 2 stage thermostat

Heat is available from two sources. One is the normal heatpump cycle, the other is from an electric booster heater. Normally the system maintains the room temperature by utilizing the heatpump cycle only. The electric booster heater is energized only when the room temperature drops 4°F or more below the set temperature.

■ Electric heater overheat prevention

When the outlet air temperature rises to 150°F or higher while using the electric heater and heat pump, the electric heater automatically stops operation and the unit switches over to heat pump operation only.

(5) FAN control

■ Characteristics of indoor fan.

AUTO

Automatically operates the air conditioner with optimum airflow according to the room temperature.

LO

Air blows out softly with low operating sound at super quiet level.

MED

Medium and high when advanced to MED and HIGH.

HI

(6) Air flow direction adjustment

● How to set.

VERTICAL

Always use the VANE CONTROL button for vertical airflow adjustment. Manual adjustment can result in malfunction.

The AUTO VANE (the VANE for vertical airflow direction) position changes as shown below in **AUTO VANE** mode depending on operation.

	Changes to straight forward airflow while outlet temperature is low at start of operation or during defrosting.
Cooling	Automatically changes to straight forward airflow after about 1 hour of operation with downward airflow.

VANE CONTROL

AUTO VANE

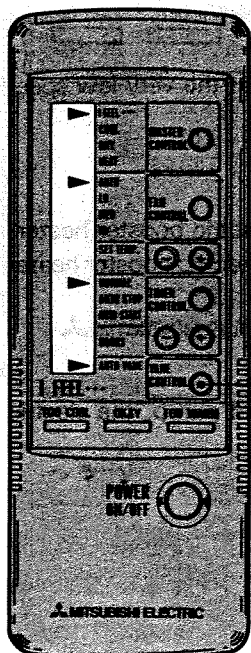
- **AUTO VANE** operation is recommended for optimum temperature distribution of the room.

Operation

- Press VANE CONTROL button and set to **AUTO VANE** mode.
(An arrow mark for **AUTO VANE** will be indicated.)

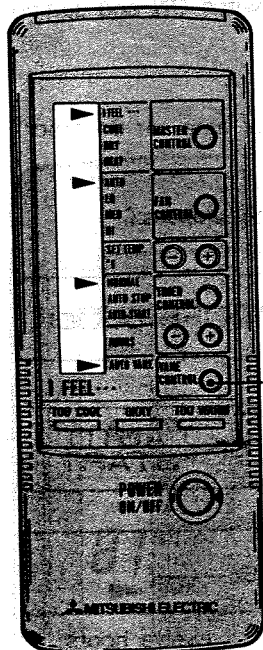
The AUTO VANE position automatically sets depending on operation.

- Becomes downward airflow for heating.
- Becomes straight forward airflow for COOL and DRY.



VANE CONTROL

ADJUSTMENT



- For example, use downward airflow if direct cool airflow is desired after taking a hot bath or shower.

OPERATION

- ① Press VANE CONTROL button to move the AUTO VANE.
(An arrow mark for **AUTO VANE** indicates.)
- ② Press VANE CONTROL button to stop AUTO VANE when angle is in the desired position.
(An arrow mark for **AUTO VANE** goes out.)

The AUTO VANE position can be set using remote controller.

- Unless the AUTO VANE is correctly set depending on operating condition. (Such as heating and cooling) Temperature distribution in the room may become poor or moisture at the air outlet results in water drippage.

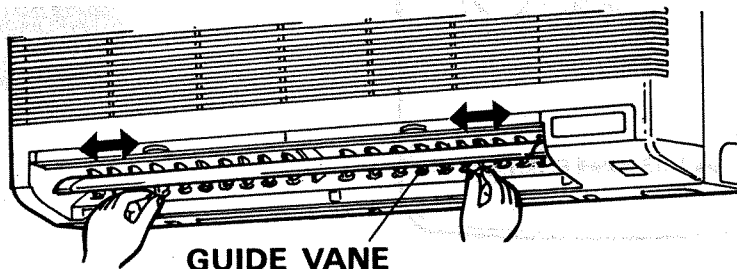
CAUTION

Always use VANE CONTROL button for **AUTO VANE** operation. Do not set position by moving manually.

HORIZONTAL

Air flow can be changed to horizontally by moving the GUIDE VANE to the left or right.

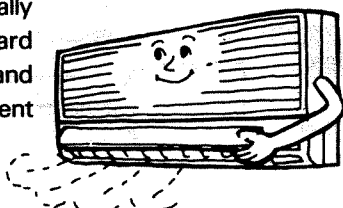
Carry out right/left adjustment before start of operation. If adjustment is desired during operation press **POWER ON/OFF** button and adjust after the AUTO VANE stops. Otherwise the AUTO VANE can move during operation catching your hands.



MICROPROCESSOR is working. You don't have to worry.

Airflow direction has changed to straight forward during heating.

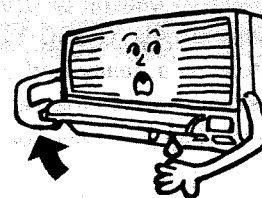
The airflow automatically changes to straight forward at start of operation and while defrosting to prevent direct cold airflow.



- Start of operation
- Defrosting

Airflow direction set to downward for cooling has changed to straight forward.

Using the air conditioner for a long time with downward air flow causes condensation on the AUTO VANE. The AUTO VANE automatically changes to straight forward airflow after about 1 hour of operation to prevent water drops.



- Prevent water drop.

(7) TIMER operation

● How to set "TIMER".

Once the controls are set, the same operation mode can be repeated by turning the POWER switch ON and setting the TIME SETTING button.



AUTO STOP mode

- Air conditioner stops after operating for length of time set on timer.

AUTO START mode

- Air conditioner starts after length of time set on timer elapses.

1 Press **POWER** ON/OFF button.

2 Select to **AUTO STOP** or **AUTO START**

3 Set the desired time.

- Timer can be set from one to twelve hours.
- Pressing $\oplus$ or $\ominus$ button once will lengthen or shorten time setting by one hour.

TIMER display

- Indicates time remaining with the timer and the display goes off when the set time comes.

RELEASE Reset the **TIMER** button to **NORMAL**.

★ How to change the desired time.

Set the new time by simply pressing the timer control buttons $\ominus$ or $\oplus$. Immediately after the $\ominus$ or $\oplus$ button is pressed the timer starts calculating new time.

CAUTION ■ Reset in the following cases.

- If the circuit breaker trips.
- In case of the power failure.

● How to use the TIMER

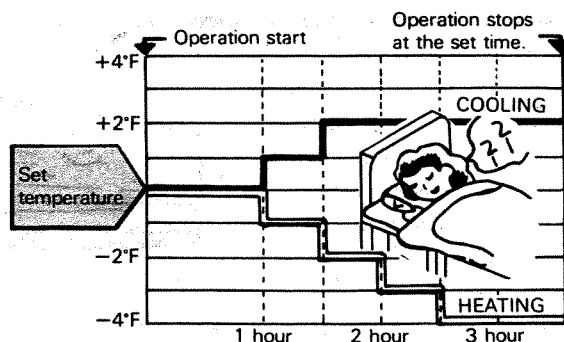
FUNCTIONS OF TIMER

AUTO STOP

- Stops the air conditioner at a set time. Set off time before going to bed or before going out somewhere.
- Setting **AUTO STOP** before going to bed controls the temperature to a healthy and comfortable level while sleeping.
- As time passes the set temperature changes to a slightly higher level during cooling or to a slightly lower level during heating.

AUTO START

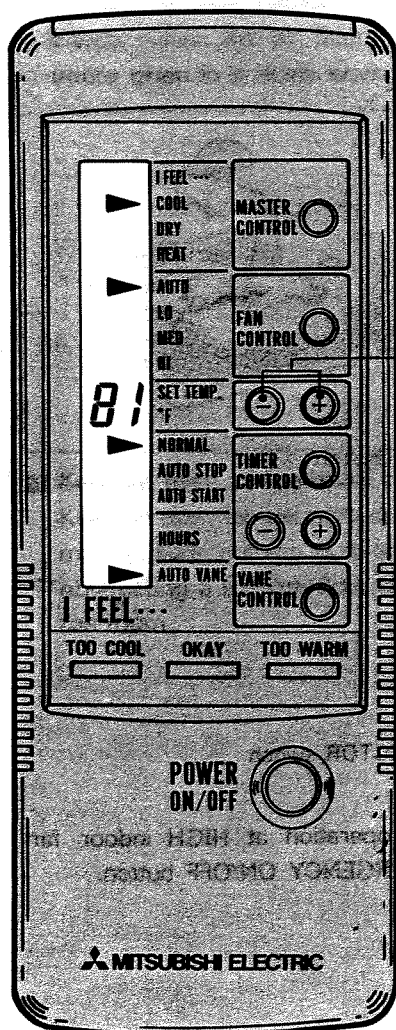
- Starts operation at a set time. Use **AUTO START** to match with time you get up or come home.
- In heating operation the system will start before the set time by using the warming up circuit. (Refer to page 15)



(8) THERMOSTAT adjustment

● How to set "THERMOSTAT".

Once the controls are set, the same operation mode can be repeated by simply turning the POWER switch ON.



When room temperature setting is to be changed while in COOLING or HEATING operation, change the set temperature by pressing **SET TEMP.** button.

Press **SET TEMP.** button to select the desired temperature.

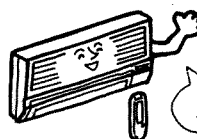
Lowest or raises the set temperature. Each time button is pressed the set temperature lowest or rises by 2°F.

The set temperature will be displayed.

Room temperature can be adjusted in the 59°F to 89°F range.

MICROPROCESSOR is working. You don't have to worry.

Unable to adjust room temperature. When the air conditioner is in **I FEEL...** mode or **DRY** (DEHUMIDIFY) mode operation, the microprocessor controls the set temperature according to the room temperature at the time operation began.



Automatically adjusted





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