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Model: 1F86-0244

Brand: Emerson

INTRODUCTION

The Emerson 1F86-0244 is a single-stage (1 Heat/1 Cool) non-programmable digital thermostat designed for simple and reliable temperature control. It features a clear 2-inch backlit LCD display and intuitive controls for managing your heating and cooling system. This thermostat is battery-powered and operates on 24 volts, making it a suitable replacement for many existing thermostat models.

Key Features:

- Non-programmable operation for straightforward use.
- 2-inch backlit LCD display for easy viewing.
- System switch for Cool, Off, and Heat modes.
- Fan switch for On and Auto modes.
- Low battery indicator and filter indicator for convenient maintenance.
- Battery powered (2 AA batteries included).

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance of your Emerson thermostat. It is recommended to consult a qualified HVAC technician if you are unsure about any steps. Ensure power to the HVAC system is turned off at the circuit breaker before beginning installation.



Figure 1: Front view of the Emerson 1F86-0244 Non-Programmable Thermostat.

Battery Installation:

The thermostat requires two AA alkaline batteries for operation. The battery compartment is typically located at the top or side of the unit, often behind a small removable cover. Gently open the cover, insert the batteries according to the polarity markings (+/-), and close the cover securely. A low battery indicator will appear on the display when replacement is needed.

Wiring and Wall Mounting:

This thermostat is designed for wall mounting. Carefully remove your old thermostat, noting the wiring connections. Connect the wires from your HVAC system to the corresponding terminals on the new Emerson thermostat (R, C, W, Y, G, O/B). A wall plate with a junction box adapter (F61-2500) may be used for installation. Once wired, securely mount the thermostat to the wall using the provided hardware. Ensure all connections are tight and secure before restoring power.



OPERATING INSTRUCTIONS

The Emerson 1F86-0244 thermostat offers straightforward operation for controlling your home's climate.

System Control:

Use the "SYSTEM" switch located on the front of the thermostat to select the desired operating mode:

- **COOL:** Activates the air conditioning system to cool your home.
- **OFF:** Turns off both heating and cooling systems.
- **HEAT:** Activates the heating system to warm your home.

Fan Control:

Use the "FAN" switch to control the circulation of air:

- **ON:** The fan runs continuously, regardless of whether the heating or cooling system is active.
- **AUTO:** The fan runs only when the heating or cooling system is actively operating.

Temperature Adjustment:

Use the up (▲) and down (▼) arrow buttons on the right side of the display to set your desired temperature. The current temperature and set temperature will be shown on the backlit LCD display.

MAINTENANCE

Battery Replacement:

When the low battery indicator appears on the display, replace the two AA alkaline batteries promptly to ensure continuous operation. Refer to the "Battery Installation" section under Setup for detailed steps.

Filter Indicator:

The thermostat features a filter indicator to remind you when it's time to check or replace your HVAC system's air filter. Regularly changing your air filter helps maintain system efficiency and indoor air quality. Consult your HVAC system's manual for specific filter replacement instructions.

TROUBLESHOOTING

If you encounter issues with your thermostat, refer to the following common troubleshooting steps:

- **No Display or Blank Screen:** Check if the batteries are correctly installed and have sufficient charge. Replace batteries if necessary. Ensure the thermostat is securely mounted to its base.
- **"Check Battery" Message:** This indicates that the batteries are low and need to be replaced.
- **System Not Responding (No Heating/Cooling):**
 - Verify the "SYSTEM" switch is set to the desired mode (HEAT or COOL).
 - Check the circuit breaker for your HVAC system to ensure power is on.
 - Ensure the fan switch is set to "AUTO" or "ON" as desired.
 - Confirm the set temperature is appropriate for activating the system (e.g., set below current temperature for cooling, above for heating).
- **Inaccurate Temperature Reading:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources that could affect its sensor.
- **Fan Runs Continuously in AUTO Mode:** Check the "FAN" switch to ensure it is not accidentally set to "ON".

If problems persist after attempting these steps, it is advisable to contact a qualified HVAC professional for assistance.

SPECIFICATIONS

Feature	Detail
Brand	Emerson
Model Name	White Rodgers 1F86-0244 Non-Programmable Thermostat 1H/1C
Controller Type	Push Button
Special Features	Filter Indicator, Lighted, Low Battery Indicator, Low Voltage, Temperature Display
Color	White
Specific Uses	Furnace, Heat Pump
Temperature Control Type	Manual
Connectivity Technology	Wired
Power Source	Battery Powered
Voltage	24 Volts (System)
Display Type	LCD
Screen Size	2 Inches
Mounting Type	Wall Mount
Backlight	Yes
Batteries Required	2 AA (included)
Battery Cell Type	Alkaline
Product Dimensions	6 x 6 x 2 inches
Item Weight	0.32 Pounds (approx. 5.1 ounces)

WARRANTY AND SUPPORT

Information regarding the specific warranty period and customer support contact details for the Emerson 1F86-0244 Non-Programmable Thermostat was not available in the provided product data. Please refer to the product packaging or the manufacturer's official website for the most accurate and up-to-date warranty and support information.