



## Honeywell Home T8775C The Digital Round Non-Programmable Thermostat Installation Guide

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### Honeywell Home T8775C The Digital Round Non-Programmable Thermostat



The T8775A,C Thermostats provide single-stage temperature control for 24V systems. The T8775A,C models include a thermostat, wallplate (for wiring and mounting thermostat), mounting screws, wall anchors, and a 4074 FAB resistor.



## MERCURY NOTICE

If this control is replacing a control that contains mercury in a sealed tube, do not place your old control in the trash. Contact your local waste management authority for instructions regarding recycling and the proper disposal of an old control containing mercury in a sealed tube.

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## INSTALLATION

### When Installing this Product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.



### CAUTION

**Electrical Shock or Equipment Damage Hazard.**

**Can shock individuals or short equipment circuitry.**

Disconnect power supply before installation.

### Location

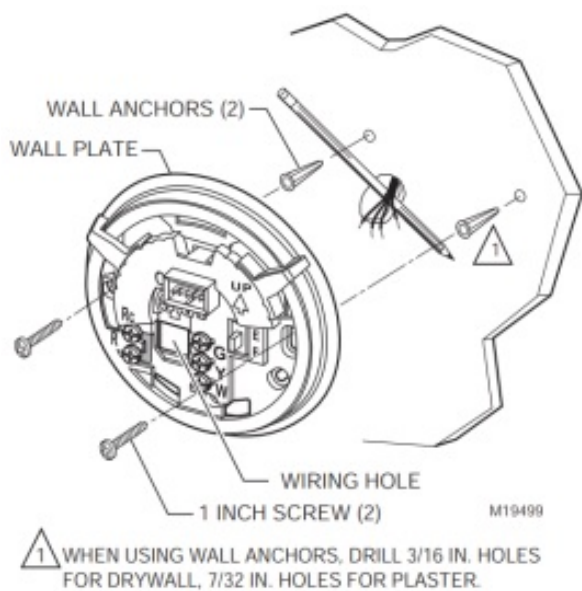
Install the thermostat about 5 ft (1.5m) above the floor in an area with good air circulation at average temperature.

Do not install the thermostat where it can be affected by:

- drafts or dead spots behind doors and in corners.
- hot or cold air from ducts.
- radiant heat from the sun or appliances.
- concealed pipes and chimneys.
- unheated (uncooled) areas such as an outside wall behind the thermostat.

### Mounting Wall plate to Wall

Mount the T8775A,C wall plate, with the screws provided. See Fig. 1.



**Fig. 1. Mounting wallplate to wall.**

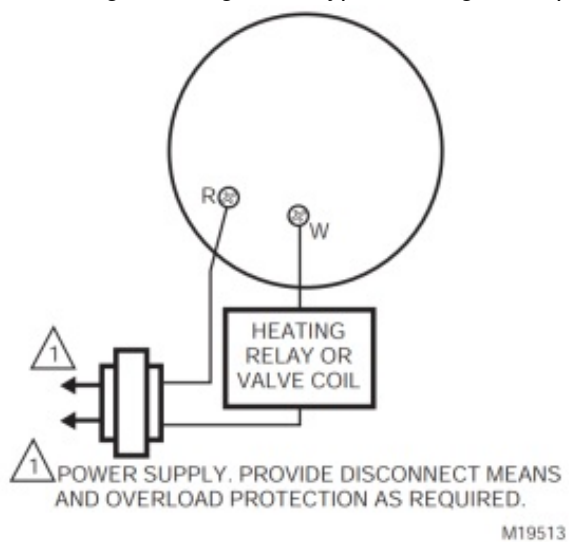
## Wiring

### IMPORTANT

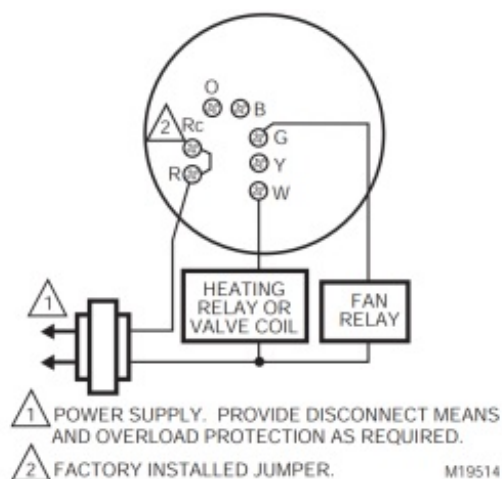
Use 18-gauge wire to wire the T8775A,C Thermostats.

All wiring must comply with local electrical codes and ordinances. Disconnect the power supply to prevent electrical shock or equipment damage.

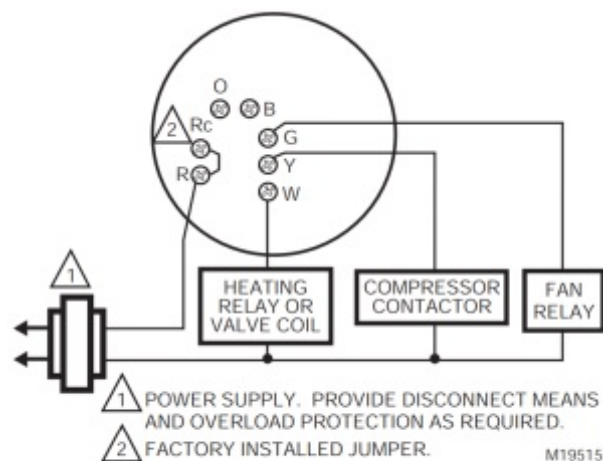
Refer to Fig. 2 through 6 for typical wiring hookups.



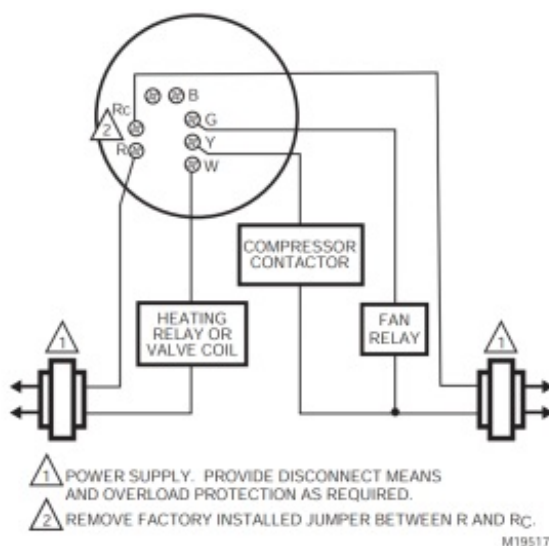
**Fig. 2. Typical hookup of T8775A in a heat-only system.**



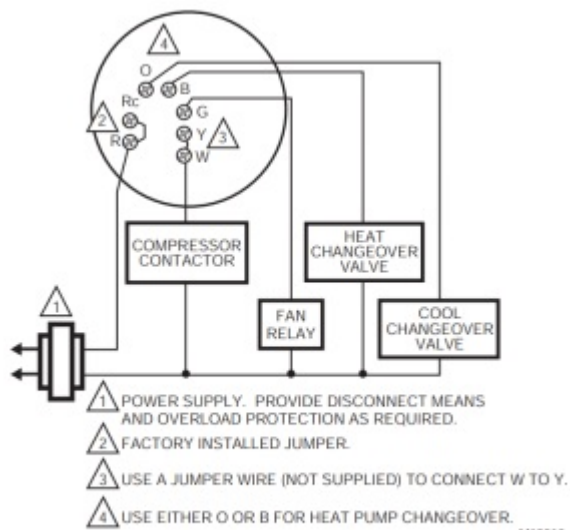
**Fig. 3. Typical hookup of T8775C in heat-only system with fan.**



**Fig. 4. Typical hookup of T8775C in heat-cool system with single transformer.**



**Fig. 5. Typical hookup of T8775C in heat-cool system with two transformers.**

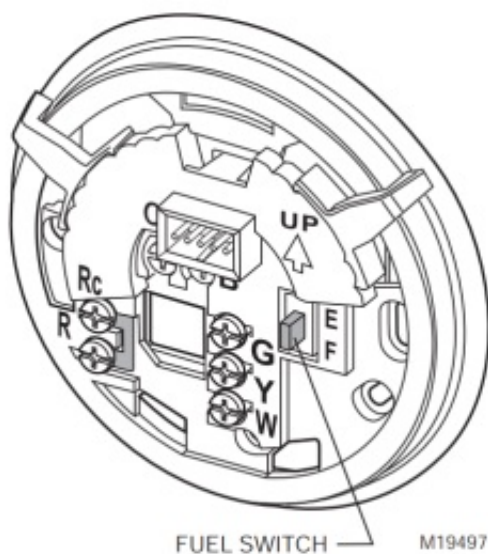


**Fig. 6. Typical hookup of T8775C in single-stage heat pump system.**

## CUSTOMIZE THERMOSTAT

### Setting Fuel Switch (T8775C only)

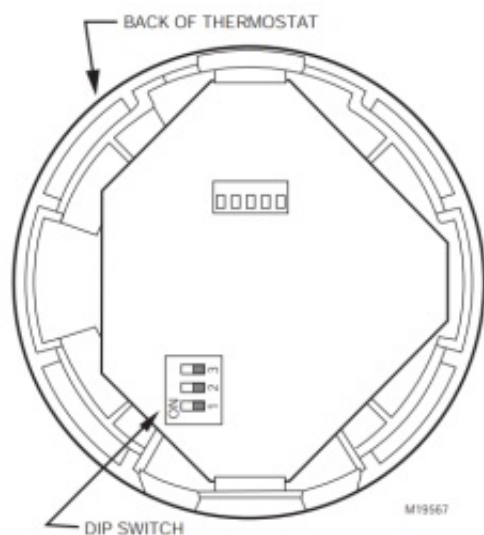
The fuel switch is preset at the factory in the F position. See Fig. 7. This is the correct setting for gas or oil systems. If the T8775C is being installed on an electric heat system, or a heat pump, set the switch to the E position. The E setting allows the fan to turn on immediately with the heating equipment in a system where the G terminal is connected.



**Fig. 7. Fuel switch.**

### DIP Switch

To adjust the heat cycle rate or the Fahrenheit/Celsius indication, locate DIP switch 1, 2 and 3 on the back of the thermostat. See Fig. 8.



**Fig. 8. DIP switch.**

### Set Heat Cycle Rate

Use DIP switches 1 and 2 to set the heat cycle rate. See Table 1.

**Table 1. Heat Cycle Rate**

Heating System	Cycles Per Hour	DIP Switch 1	DIP Switch 2
Steam, Gravity	1	On	On
High Efficiency Warm Air (90%+ efficiency), Hot Water, Heat Pump	3	Off	On
Gas or Oil Warm Air (factory setting)	6	Off	Off
Electric Warm Air	9	On	Off
In Floor Radiant Heat	Check with manufacturer for recommended cycle rate.		

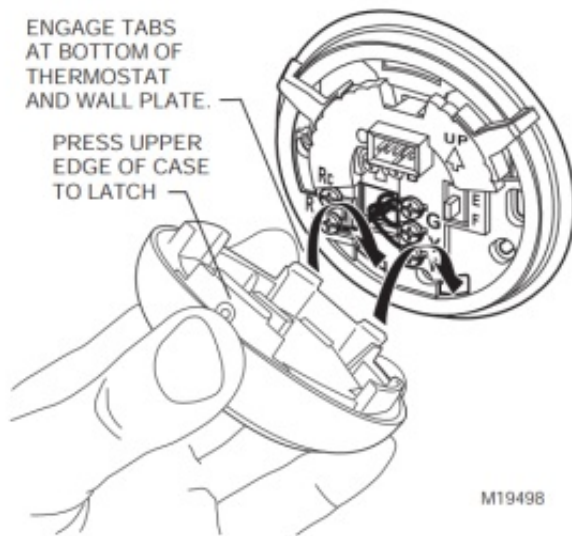
### Fahrenheit/Celsius Indication

Use DIP switch 3 to set the desired temperature indication. See Table 2

**Table 2. Temperature Indication**

Fahrenheit/Celsius Display	DIP Switch 3
Fahrenheit (factory setting)	Off
Celsius	On

### Mounting Thermostat to Wall plate

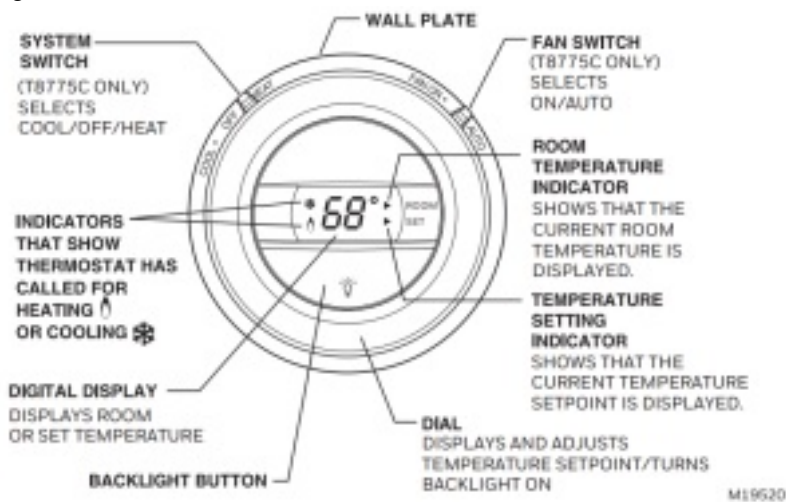


**Fig. 9. Mounting thermostat to wallplate.**

## OPERATION

### Setting **SYSTEM** and **FAN** Switches (T8775C only)

System and fan settings are controlled manually by using the switches located at the top of the thermostat. See Fig. 10.



**Fig. 10. T8775 Thermostat (features and operation).**

### **SYSTEM** Switch

Heat: The thermostat controls the heating system.

Off: Both heating and cooling systems are off.

Cool: The thermostat controls the cooling system.

### **FAN** Switch



Auto: The fan only runs with the heating and cooling system.

On: The fan runs continuously. Use for improved air circulation.

## CHECKOUT

**NOTE:** Temperature setpoint range is 40°F to 90°F (4°C to 32°C) in heating and 45°F to 99°F (7°C to 37°C) in cooling.

### Heating

1. Slide the SYSTEM switch to Heat and the FAN switch to Auto (T8775C only).
2. Raise the temperature setpoint several degrees above the room temperature.
3. A flame  will appear in the display and the heat should turn on.
4. Lower the temperature setpoint below the room temperature.
5. The flame  will disappear from the display and the heat should turn off.


### Cooling (T8775C only)





#### CAUTION

**Low Temperature Hazard. Operating at too low of an outdoor temperature may cause compressor damage.**

Do not operate cooling if outdoor temperature is below 50°F (10°C). Refer to manufacturer's recommendations.

**NOTE:** If a call for cooling is made before the compressor has been off for five minutes, or if a power interruption occurs while the compressor is running, the thermostat will go into a five-minute delay to protect the compressor. The snowflake  will flash during this delay

1. Slide the SYSTEM switch to Cool and the FAN switch to Auto.
2. Lower the temperature setpoint several degrees below the room temperature.
3. After approximately five minutes, the thermostat will display a solid snowflake and  the cooling should turn on.
4. Raise the temperature setpoint above the room temperature.
5. The snowflake  will disappear from the display and the cooling should turn off.

### Fan

1. Slide the SYSTEM switch to Off and the FAN switch to On. The fan should run continuously.
2. Slide the FAN switch to Auto. The fan should turn off.

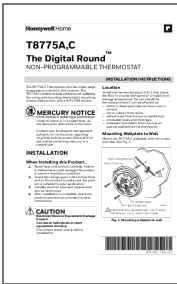
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