

## OPERATION

### FOR YOUR SAFETY READ BEFORE LIGHTING



**WARNING:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot which must be lighted by the electronic ignitor. When lighting the pilot, follow these instructions exactly.

B. **BEFORE LIGHTING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

### WHAT TO DO IF YOU SMELL GAS



- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department


C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it, call a qualified service technician. Forced or attempted repair may result in fire or explosion.


D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

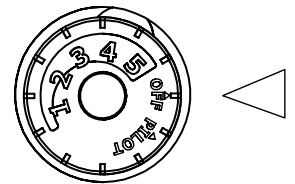
## LIGHTING INSTRUCTIONS

### Models GFD 2043 / 2671

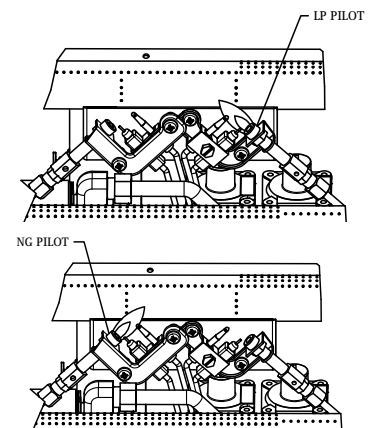
1. STOP! Read the safety information as noted above.
2. Open the lower access panel located below the fireplace screen.
3. Turn control knob clockwise  to the "OFF" position (See Fig. 15).
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information as noted above. If you don't smell gas, go to the next step.
5. Turn control knob counterclockwise  to the "PILOT" position (See Fig. 16). Depress control knob.
6. With control knob depressed, push down on the ignitor button until the pilot lights. The pilot is located behind the fireplace screen, centered near the rear of the burner.
7. Keep control knob depressed for (30) seconds after pilot lights. Release control knob.

- If the control knob does not pop up when released, stop and immediately call a qualified service technician or gas supplier.
- If pilot goes out repeat steps 3 through 7. Wait (1) minute before attempting to light pilot again. If after several tries the pilot still goes out, turn the gas control knob clockwise  to the "OFF" position and call a qualified service technician.

8. Turn control knob counterclockwise  to desired setting.
9. Close lower access panel.







**Fig. 15 - Control Knob**

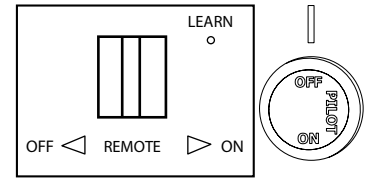


**Fig. 16 - Pilot**

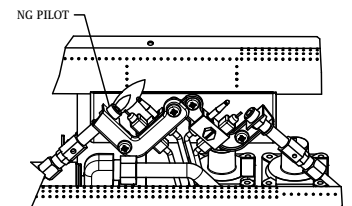
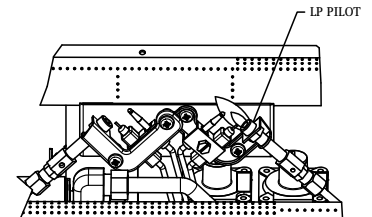
## OPERATION

### Model GFD 3281R / 3291R

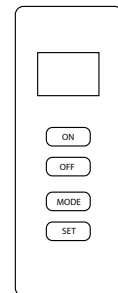
1. STOP! Read the safety information on the page before this.
  2. Open the lower access panel located below the fireplace screen.
- Set receiver switch to “ON” position (See Fig. 17).
3. Turn control knob clockwise  to the “OFF” position (See Fig. 17).
  4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow “B” in the safety information on the page before this. If you don’t smell gas, go to the next step.
  5. Push in slightly and turn control knob counterclockwise  to the “PILOT” position (See Fig. 17). Depress control knob.
  6. With control knob depressed, push down on the ignitor button until the pilot lights. The pilot is located behind the fireplace screen, centered near the rear of the burner (See Fig. 18).
  7. Keep control knob depressed for (30) seconds after pilot lights. Release control knob.
- If the control knob does not pop up when released, stop and immediately call a qualified service technician or gas supplier.
  - If pilot goes out repeat steps 3 through 7. Wait (1) minute before attempting to light pilot again. If after several tries the pilot still goes out, turn the gas control knob clockwise  to the “OFF” position and call a qualified service technician.
8. Turn control knob counterclockwise  to the “ON” position.
  9. To use the included thermostatic remote control, set receiver switch to the “REMOTE” position (See Fig. 19). Press the ON button to turn on the remote to ignite the main burner. Refer to the remote control instruction manual on the next page for “MODE” and “SET” functions.



**Fig. 17 - Receiver & Control Knob**




**Fig. 18 - Pilot**




**Fig.19 - Remote**

## TO TURN OFF GAS TO APPLIANCE

### Models GFD 2043 / 2671

1. Open the lower access panel located under the fireplace screen.
2. Turn control knob clockwise  to the “OFF” position.
3. Close lower access panel.

### Models GFD 3281R / 3291R

1. Set thermostat to the lowest setting.
2. Press the OFF button on the remote control.
3. Open the lower access panel located under the fireplace screen.
4. Push in slightly and turn control knob clockwise  to the “OFF” position.
5. Close lower access panel.

# REMOTE CONTROL OPERATION

## MULTI-FUNCTION WIRELESS REMOTE CONTROL SYSTEM FOR OPERATING A LATCHING SOLENOID VALVE, MANUALLY OR WITH A THERMOSTAT FUNCTION

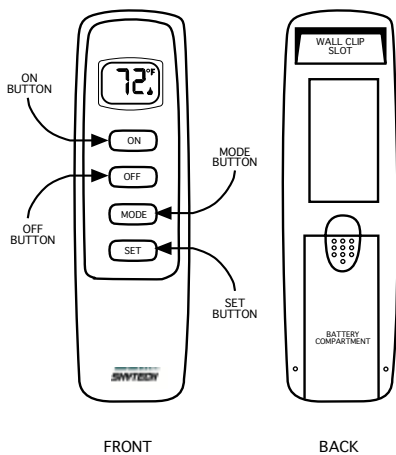
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### INTRODUCTION

This remote control system was developed to provide a safe, reliable, and user-friendly remote control system for gas heating appliances. The system is operated manually from the transmitter. The system operates on radio frequencies (RF) within a 20-foot range using non-directional signals. The system operates on one of 1,048,576 security codes that are programmed into the transmitter at the factory; the remote receiver's code must be matched to that of the transmitter prior to initial use.

**Review COMMUNICATION SAFETY under GENERAL INFORMATION section. This safety feature shuts down the appliance when a potentially unsafe condition exists.**

### TRANSMITTER



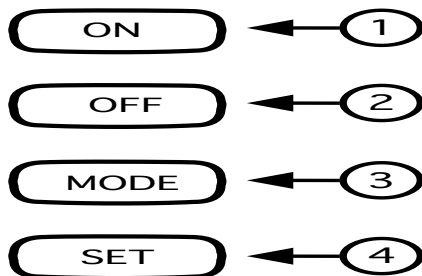
This remote control SYSTEM offers the user a battery-operated remote control to power a latching solenoid such as those used with gas valves used in some heater rated gas logs, gas fireplaces and other gas heating appliances.

The solenoid circuit uses the battery power from the receiver to operate a solenoid. The circuit has reversing polarity software which reverses the positive (+) and negative (-) output of the receiver's battery power to drive a latching solenoid ON/OFF. The SYSTEM is controlled by the remote transmitter.

The transmitter operates on a (2) 1.5V AAA batteries.

ALKALINE batteries should always be used for longer battery life and maximum operational performance. Re-chargeable batteries should not be used.

Before using the transmitter, install the (2) AAA transmitter batteries into the battery compartment. (Use caution that batteries are installed in the proper direction)

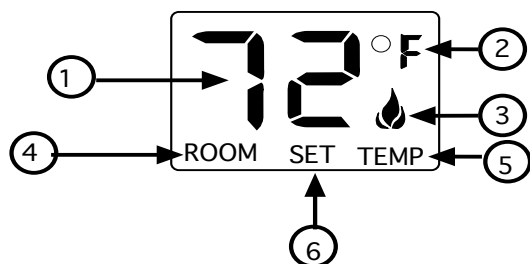


### KEY SETTINGS

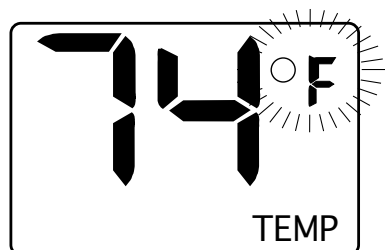
- ON - Operates unit to on position, Manually operated solenoid ON.
- OFF - Operates unit to off position, Manually operated solenoid OFF.
- MODE - Changes unit from manual mode to thermo mode.
- SET - Sets temperature in thermo mode.

## REMOTE CONTROL OPERATION

### LCD - Liquid Crystal Display



- |                      |   |
|----------------------|---|
| 1. <b>DISPLAY</b>    | Indicates CURRENT room temperature .  |
| 2. <b>° F OR ° C</b> | Indicates degrees Fahrenheit or Celsius.  |
| 3. <b>FLAME</b>      | Indicates burner/valve in operation.  |
| 4. <b>ROOM</b>       | Indicates remote is in THERMO operation.  |
| 5. <b>TEMP</b>       | Appears during manual operation.  |
| 6. <b>SET</b>        | Appears during time the of setting the desired temperature in the thermo operation. |



### SETTING ° F / ° C SCALE

The factory setting for temperature is ° F. To change this setting to ° C, first

- Press the ON key and the OFF key on the transmitter at the same time this will change from ° F to ° C. Follow this same procedure to change from ° C back to ° F.

### MANUAL FUNCTION

To operate the system in the manual "MODE" do the following.

#### ON OPERATION

Press the ON key the appliance flame will come on. During this time the LCD screen will show ON, after 3 seconds the LCD screen will default to display room temperature and the word TEMP will show. **(Flame icon wil appear on LCD screen in manual on mode)**

#### OFF OPERATION

Press the OFF key the appliance flame will shut off. During this time the LCD screen will show OF, after 3 seconds the LCD screen will default to display room temperature and the word TEMP will show.

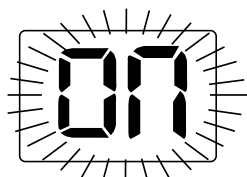
### THERMOSTAT FUNCTION

#### SETTING DESIRED ROOM TEMPERATURE

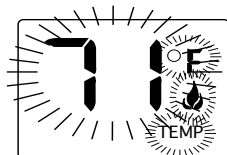
This remote control system can be thermostatically controlled when the transmitter is in the THERMO mode (The word **ROOM must be displayed on the screen**). To set the THERMO MODE and DESIRED room temperature,

Press the MODE key until the LCD screen shows the word ROOM, then the remote is in the thermostatic mode.

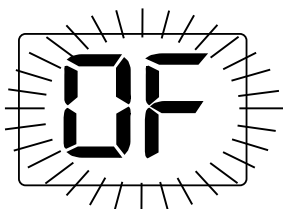
Press and hold the SET key until the desired set temperature is reached. (By pressing and holding the set key the LCD screen set numbers will increase from 45° to 99° then restart over at 45°) Next



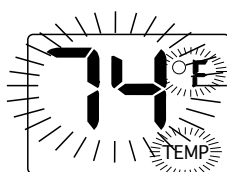
SCREEN WHILE  
DEPRESSING ON  
KEY



SCREEN AFTER 3  
SECOND DEFAULT



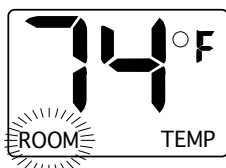
SCREEN WHILE  
DEPRESSING OFF  
KEY



SCREEN AFTER 3  
SECOND DEFAULT



THERMO SET



THERMO MODE

## REMOTE CONTROL OPERATION

### MULTI-FUNCTION WIRELESS REMOTE CONTROL SYSTEM FOR OPERATING A LATCHING SOLENOID VALVE, MANUALLY OR WITH A THERMOSTAT FUNCTION

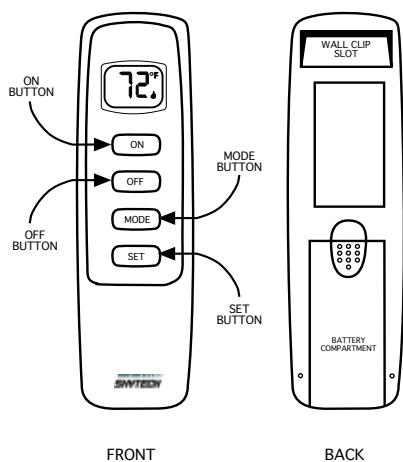
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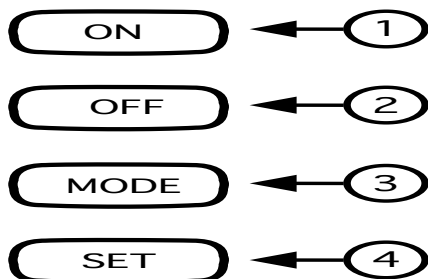
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The solenoid circuit uses the battery power from the receiver to operate a solenoid. The circuit has reversing polarity software which reverses the positive (+) and negative (-) output of the receiver's battery power to drive a latching solenoid ON/OFF. The SYSTEM is controlled by the remote transmitter.

The transmitter operates on a (2) 1.5V AAA batteries.

ALKALINE batteries should always be used for longer battery life and maximum operational performance. Re-chargeable batteries should not be used.

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### KEY SETTINGS

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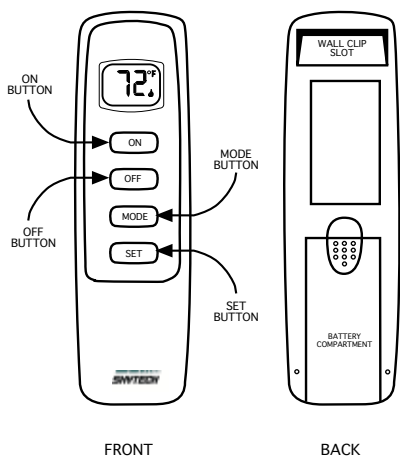
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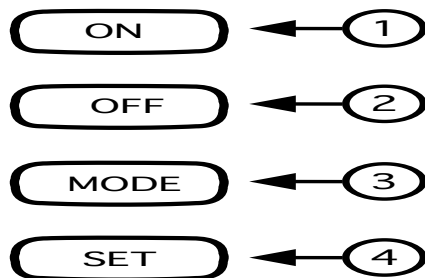
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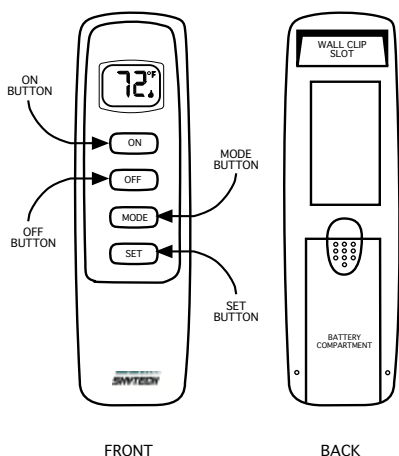
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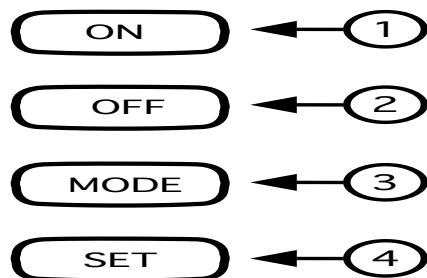
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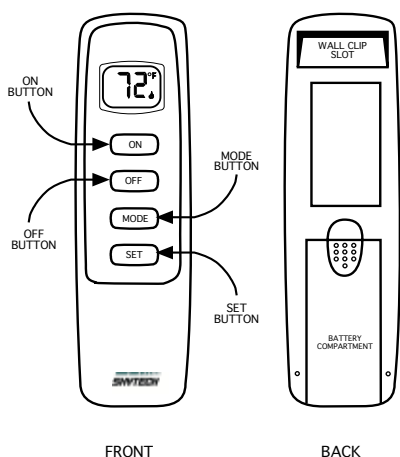
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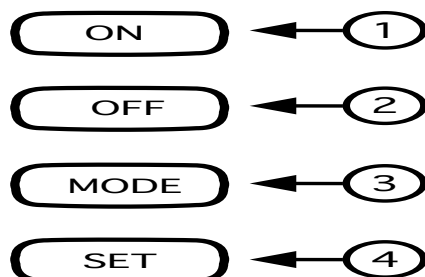
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## OPERATION

### INSPECTING BURNERS

Check pilot flame pattern and burner flame patterns often.

#### PILOT FLAME PATTERN

Figure 20 shows a correct pilot flame pattern. Figure 21 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool. When the thermocouple cools, the fireplace will shut down.

If pilot flame pattern is incorrect, as shown in Figure 21.

- turn fireplace off (see To Turn Off Gas to Appliance, page 24).
- see Troubleshooting, page 34.

Note: The pilot flame on natural gas units will have a slight curve, but flame should be blue and have no yellow or orange color.

Fig. 20 - Correct Pilot Flame Pattern

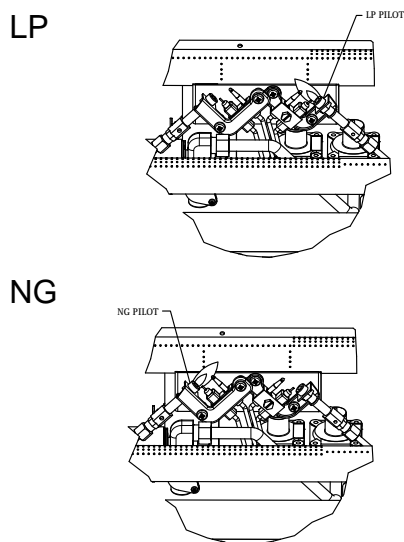
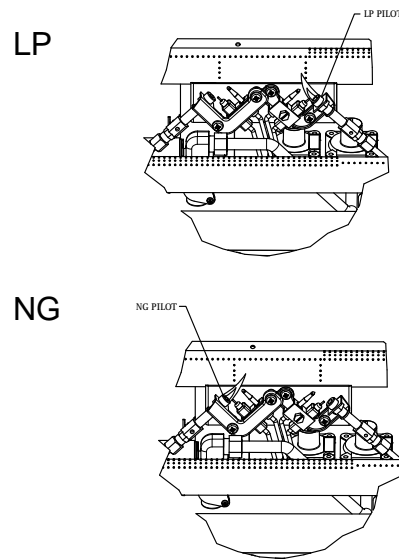


Fig. 21 - Incorrect Pilot Flame Pattern



**⚠ WARNING:** If yellow tipping occurs, your heater could produce increased levels of carbon monoxide. If burner flame pattern shows yellow tipping, follow instructions at bottom of this page.

**⚠ WARNING:** Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.

**⚠ WARNING:** Do not use a blower insert, heat exchanger insert or other accessory not approved for use with this heater.

**Notice:** Do not mistake orange flames with yellow tipping. Dirt or other fine particles enter the heater and burn causing brief patches of orange flame.