MAXITROL®

ENGLISH

GV60 Remote Electronic Ignition and Control System

Installation and Operating Instructions

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ENGLISH

IMPORTANT SAFETY INFORMATION

Important Safety Information 2
General Installation Information 2

GV60 COMBINATION GAS CONTROL SYSTEM

Description 3
Components 3
Technical Data 4
Mounting Position 5
Gas Connections 5
Perform Gas Leak Test 6
Wiring 6
Thermocouple Circuit 6
Ignition Cable 6
Receiver 6
Synchronization Receiver / Handset 7
V Module 7
Knob Settings 7
Adjustment 8
Final Check 9
Manual Operation 9
To Turn OFF Gas to Appliance 10
Automatic turn down to pilot (motor endstop) 10
Automatic Shut-Off 10
Receiver Shut-Off / Turn Down 10

TOUCHPAD / WALL SWITCH

Technical Data 12
Operation 12

SWITCH PANEL

Technical Data 12
Operation 12

HANDSET OPERATION

Technical Data 13
Setting Fahrenheit or Celsius 14
Setting the Time 14
Manual Mode (Handset) 14
Designated Low Fire And High Fire 15
Modes of Operation 15
Setting the ON/OFF Temperatures 15
Setting Program Timers 16
2nd Burner Function 17
Circulating Fan Operation 17
Light / Dimmer Operation 17

WIRING DIAGRAMS

Basic 18
Fan, Light/Dimmer, 2nd Burner Function 19
2nd Thermocouple 20
Infrared (IR) 21
Relay Operation (Volt Free Contact) (RF, IR) 22

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IMPORTANT SAFETY INFORMATION

IMPORTANT SAFETY INFORMATION

⚠ WARNING

WHAT TO DO IF YOU SMELL GAS
- Do NOT operate any appliance.
- Do NOT touch any electrical switch; do NOT use any phone in your building.
- Immediately evacuate the area and contact the gas supplier. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

Read these instructions carefully and completely before installing or operating. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. Service and installation must be performed by a trained / experienced service technician.

ELECTRIC SHOCK HAZARD
- Read these instructions carefully. Failure to follow them could result in property damage, personal injury, or loss of life.
- This control must be electrically wired and operated in compliance with all codes and local regulations. Service and installation must be performed by a trained, experienced service technician.
- Do NOT use the control if you suspect it may be damaged.

FAILURE OF BATTERY OR MAINS POWER TO THE RECEIVER

If the receiver's power supply is interrupted the Maxitrol combination gas control will not turn OFF the gas supply to the heating appliance. It will remain in the same gas flow position set prior to the power failure regardless of the room temperature. Once the receiver power is restored, the receiver will return to a normal operating mode. The pilot safety system will continue to function normally during down power occurrences.

It is the OEM's responsibility to follow all gas appliance safety standards and protect the Maxitrol products and components from exceeding maximum/minimum temperature limits (refer to appropriate product literature). The OEM is responsible for the safety of the heating appliance operation.

Installation and service must be performed by a qualified installer, service agency, or the gas supplier. Installation shall conform with local codes, or in the absence of local codes, in compliance with the National Fuel Gas Code ANSI Z223.1 / NFPA 54 or the IFGC or CSA B149.1 or AGA AS 4624; Rules Governing. All piping and tubing must comply with local codes and ordinances.

Use only your hand to push in or turn the gas control knobs. Never use tools. If a knob will not push in or turn by hand, do not try to repair it. Call a qualified service technician. Force or attempted repair can result in a fire or explosion.

Do NOT use a product if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart. Do NOT use a product if you suspect it has been under water or that liquid has seeped into the product. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

Do NOT store or use gasoline or other flammable vapors and liquids in the vicinity of this control or other appliances.

GENERAL INSTALLATION INFORMATION

NOTICE

It is the responsibility of the OEM to consider the following:
- The location of the GV60 system components will significantly affect the radio signal strength.
- The type of materials (e.g. sheet metal) used in the construction of the gas fireplace will significantly effect the radio signal strength.
- Operate the system with a dedicated mains power supply and/or batteries.
- Do not use near household electrical wiring and/or magnetic fields.
- Other transmitters using the same signal will negatively affect the radio signal strength.
- Adjustment of the on-board antenna on the receiver can improve signal strength.
- Do not store or locate the GV60 system components in a hot, cold, or humid environment.
- Make sure that the end user can access the receiver for a reset or to synchronize a new transmitter.

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TOUCHPAD / WALL SWITCH

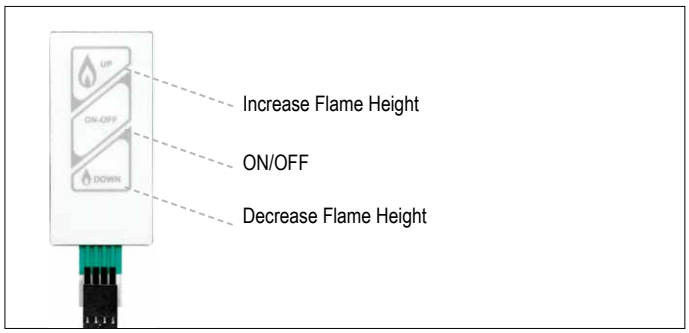

Figure 19: Touchpad / Wall Switch

TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
CSA: 176 °F
CE, AGA: 80 °C

NOTICE

The wall switch must be protected from rain and moisture.

OPERATION

To Turn ON Appliance
- Press button **ON-OFF** button (see figure 19) until a short beep confirms the start sequence has begun; release button.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.

⚠ WARNING

If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

Flame Height Adjustment
- Press and hold (**large flame**) button to increase flame height.
- Press and hold (**small flame)** button to decrease flame height or to set appliance to pilot flame.

Standby Mode (Pilot Flame)
- Press and hold (**small flame**) button to set appliance to pilot flame.

To Turn OFF Appliance
- Press **ON-OFF** button.

⚠ WARNING

If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

To open and close Solenoid Valve / Burner
- Simultaneously press the **ON-OFF** and (**small flame**) buttons to switch the decorative burner OFF.
- Simultaneously press **ON-OFF** and (**large flame**) buttons to switch decorative burner ON.

NOTE: The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

SWITCH PANEL

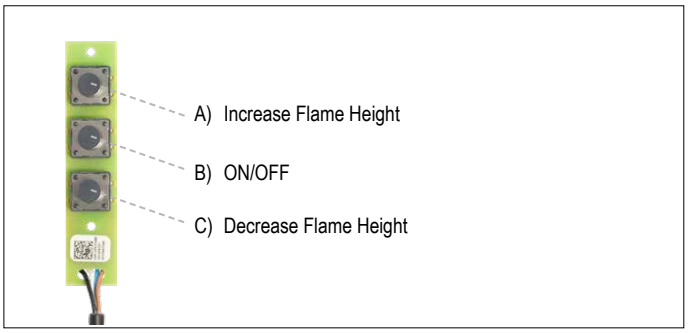

Figure 20: Switch Panel

TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
CSA: 221 °F
CE, AGA: 105 °C

OPERATION

To Turn ON Appliance
- Press button “B” button (see figure 20) until a short beep confirms the start sequence has begun; release button.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.

⚠ WARNING

If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

Flame Height Adjustment
- Press and hold “A” button to increase flame height.
- Press and hold “C” button to decrease flame height or to set appliance to pilot flame.

Standby Mode (Pilot Flame)
- Press and hold “C” button to set appliance to pilot flame.

To Turn OFF Appliance
- Press “B” button.

⚠ WARNING

If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

To open and close Solenoid Valve / Burner
- Simultaneously press the “B” and “C” buttons to switch the decorative burner OFF.
- Simultaneously press “B” and “A” buttons to switch decorative burner ON.

NOTE: The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

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HANDSET

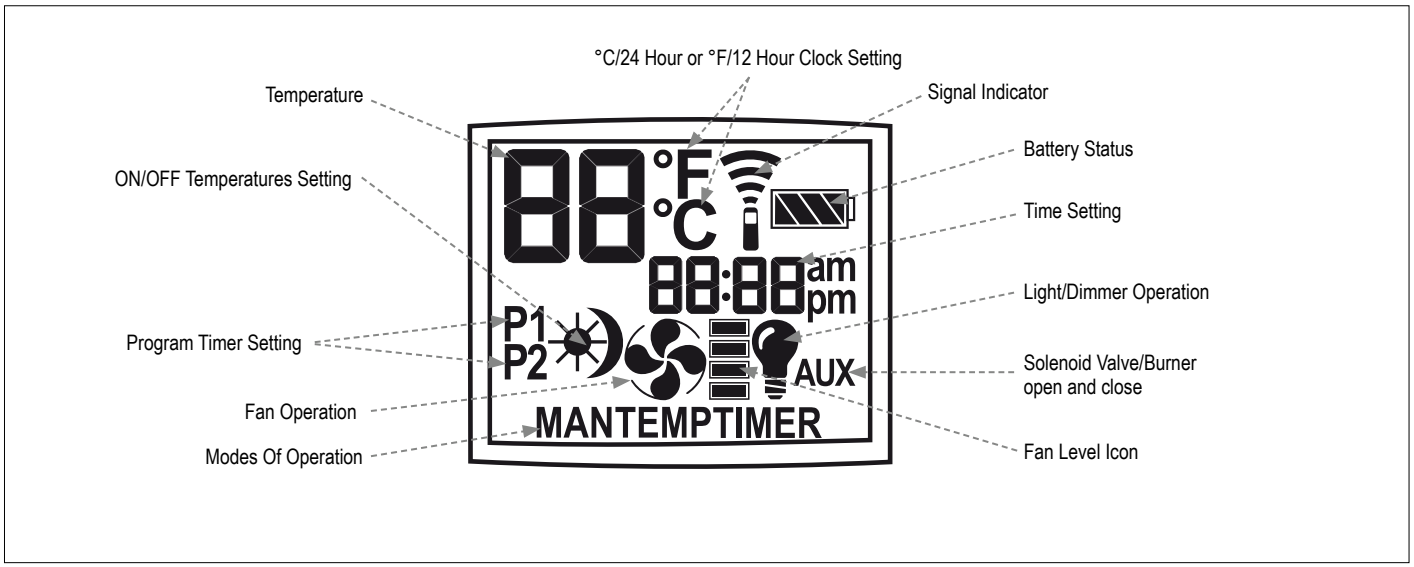

Figure 21: Handset display

TECHNICAL DATA

AMBIENT TEMPERATURE RANGE
CSA: 32 °F to 131 °F
CE, AGA: 0 °C to 55 °C

RADIO FREQUENCY
CSA: 315 MHz for U.S. (FCC), Canada (ISED)
CE: 433.92 MHz for Europe
AGA: 315 MHz for New Zealand (RNZ) and Australia (ACMA)
(see GENERAL RADIO FREQUENCY INFORMATION, page 4.)

POWER SUPPLY
- 1 x 9V battery (quality alkaline recommended)
- Low battery indicator on handsets with display.
- Handsets without display: the red LED gets darker.

⚠ WARNING

To avoid damaging the electronics, do NOT use metal tools to remove the batteries from the handset / receiver.

- Without using a mains adapter, battery replacement is recommended at the beginning of each heating season.
- Old or dead batteries should be removed immediately. If left in the unit the batteries can overheat, leak, and / or explode.
- Do NOT expose batteries (including during storage) to direct sunlight, excessive heat, fire, moisture, or severe impact. Each of these conditions can cause the batteries to overheat, leak, and / or explode.
- Batteries must be kept within their recommended temperature limits (ambient battery temperature range: 32 °F to 131 °F / 0 °C to 55 °C).
- New and old batteries and different brands of batteries should not be used together. Mixing of various batteries can cause the batteries to overheat, leak, and / or explode.

NOTICE

- Wiring of control and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
- Replacement handsets for CSA models also must have the same part number (see label).
- The handsets, receivers, wall switches, switch panels and touchpads are not interchangeable with previous G6R and Symax electronics.

Synchronization Receiver / Handset

NOTICE

See page 7 for more information about synchronization between receiver and handset.

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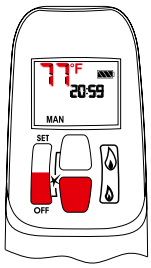
HANDSET OPERATION

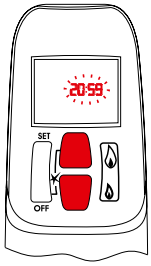
SETTING FAHRENHEIT OR CELSIUS



- To change between °C and °F, press **OFF** and 🔥 (**small flame**) buttons simultaneously.

NOTE: Choosing °F results in a 12 hour clock. Choosing °C results in a 24 hour clock.

SETTING THE TIME



- The Time display will flash after either:
  a) Installing the battery or
  b) simultaneously pressing the 🔥 (**large flame**) and 🔥 (**small flame**) buttons.
- Press 🔥 (**large flame**) button to set the hour.
- Press 🔥 (**small flame**) button to set the minute.
- Press **OFF** or simply wait to return to Manual Mode.

MANUAL MODE (HANDSET)

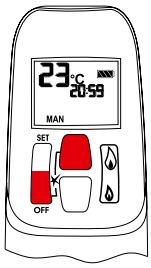
NOTICE

BEFORE OPERATING
1. Make sure MANUAL knob on the GV60 control is in the **ON**, full counterclockwise ↺ position.
2. Place the **ON/OFF switch** (if equipped) in the **I** (ON) position.

To Turn On Fire

⚠ WARNING

When pilot ignition is confirmed, motor turns automatically to maximum flame height.

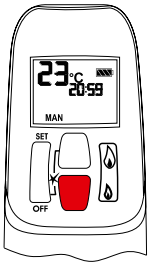


- Simultaneously press the **OFF** and 🔥 (**large flame**) buttons until a short beep confirms the start sequence has begun; release buttons.
- Continuing beeps confirm the ignition is in process.
- Once pilot ignition is confirmed, there is main gas flow.
- After main burner ignition the handset will automatically go into Manual Mode.

⚠ WARNING

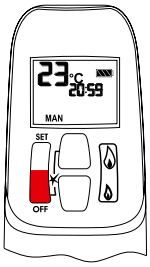
If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

Standby Mode (Pilot Flame)



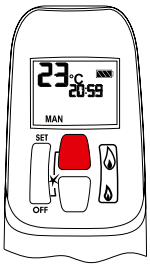
Handset
- Press and hold 🔥 (**small flame**) to set appliance to pilot flame.

To Turn Off Fire

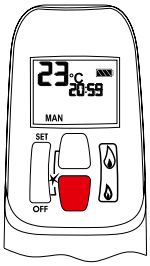


Handset
- Press **OFF** button.

Flame Height Adjustment



- In Standby Mode: Press and hold 🔥 (**large flame**) button to increase flame height.



- Press and hold 🔥 (**small flame**) button to decrease flame height or to set appliance to pilot flame.
- For fine adjustment tap the 🔥 (**large flame**) or 🔥 (**small flame**) buttons.

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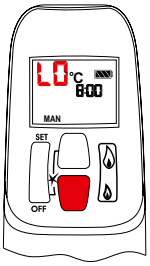
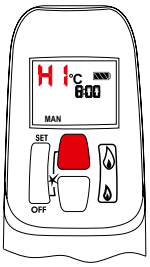
DESIGNATED LOW FIRE AND HIGH FIRE



- Double-click 🔥 (**small flame**) button. “LO” will be displayed.

NOTE: Flame goes to high fire first before going to designated low fire.

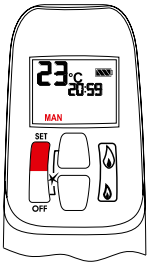


- Double-click 🔥 (**large flame**) button. Flame automatically goes to high fire. “HI” will be displayed.

⚠ WARNING

If the appliance will not operate, follow the instructions “TO TURN OFF GAS TO APPLIANCE” (see page 10).

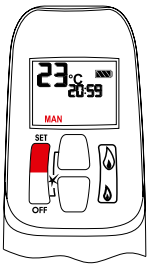
MODES OF OPERATION



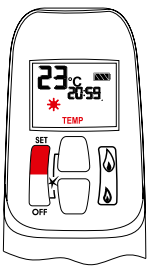
- Briefly pressing the **SET** button changes the mode of operation in the following order:

MAN → ☀ TEMP → 💡 → 🌀 ▤ → ☽ TEMP → TIMER → back to the beginning

NOTE: Manual Mode can also be reached by pressing either the 🔥 (**large flame**) or the 🔥 (**small flame**) button.

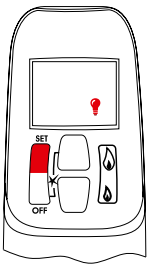


- **MAN – Manual Mode**
Manual flame height adjustment.

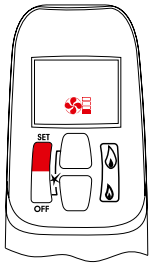


- **☀ TEMP – Daytime Temperature Mode**
(Appliance must be in Standby Mode; pilot ignited)

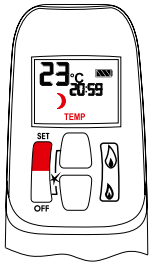
The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the Daytime Set Temperature.



- **💡 – Light/Dimmer Setting Mode**
Turns light/dimmer ON and OFF and adjusts brightness.

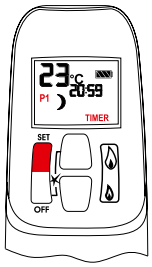


- **🌀 ▤ – Circulating Fan Setting Mode**
Turns circulating fan ON and OFF and adjusts fan speed.



- **☽ TEMP – Nighttime Setback Temperature Mode**
(Appliance must be in Standby Mode; pilot ignited)

The room temperature is measured and compared to the Nighttime Setback Temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.



- **P1/P2 TIMER – Timer Mode**
(Appliance must be in Standby Mode; pilot ignited)

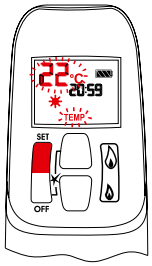
The Timers P1 and P2 (Program 1, Program 2) each can be programmed to go ON and OFF at specific times. For instructions see Timer Programming Mode.

NOTE: The display shows the set temperature every 30 seconds.

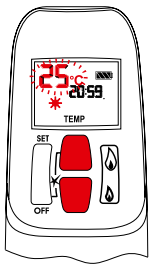
SETTING THE ON/OFF TEMPERATURES

Setting the DAYTIME Temperature

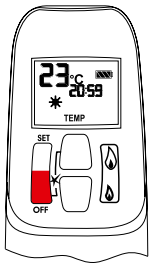
DEFAULT SETTINGS: ☀ **TEMP**, 73 °F / 23 °C



- Briefly press **SET** button to scroll to ☀ **TEMP**. Hold the **SET** button until “**TEMP**” and the Temperature flashes.



- Press 🔥 (**large flame**) button to increase ☀ Daytime Set Temperature.
- Press 🔥 (**small flame**) button to decrease ☀ Daytime Set Temperature.



- Press **OFF** or simply wait to complete programming.

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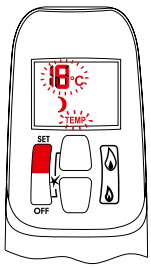
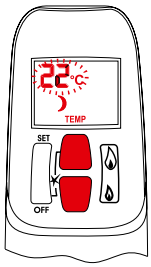
Setting the NIGHTTIME SETBACK Temperature

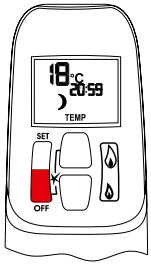
DEFAULT SETTINGS: ☽ **TEMP**, "**--**" (OFF)



- Briefly press **SET** button to scroll to ☽ **TEMP** mode. Hold the **SET** button until "**TEMP**" and the Temperature flashes.



- Press 🔥 (**large flame**) button to increase ☽ Nighttime Setback Temperature.
- Press 🔥 (**small flame**) button to decrease ☽ Nighttime Setback Temperature.



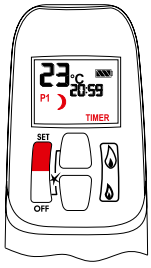
- Press **OFF** or simply wait to complete programming.

SETTING PROGRAM TIMERS

Default Settings

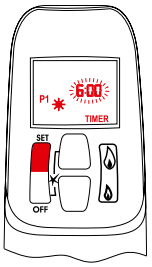
CSA:	Program 1:	P1 ☀: 6:00am	P1 ☽: 8:00am
	Program 2:	P2 ☀: 11:50pm	P2 ☽: 11:50pm
CE:	Program 1:	P1 ☀: 6:00	P1 ☽: 8:00
	Program 2:	P2 ☀: 23:50	P2 ☽: 23:50

- 2 ON times can be programmed ☀ per day.
- CE: The day starts at 0:00, ends at 23:50.
- CSA: The day starts at 12:00am, ends at 11:50pm.
- The ON/OFF times have to be programmed in the order P1 ☀ ≤ P1 ☽ < P2 ☀ ≤ P2 ☽.
- If P1 ☀ = P1 ☽ or P2 ☀ = P2 ☽ the timer is deactivated.
- To have the fire over night, it can be set:
  CE: P2 ☽ 23:50 and P1 ☀ 0:00
  CSA: P2 ☽ 11:50am and P1 ☀ 12:00am

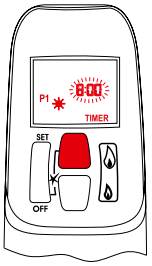


- Select Timer Mode by briefly pressing the **SET** button.

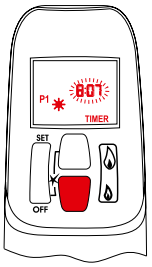
Setting P1 ON Time



- Hold the **SET** button until **P1** and ☀ are displayed and the time flashes.

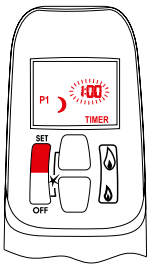


- Set the hour by pressing the 🔥 (**large flame**) button.

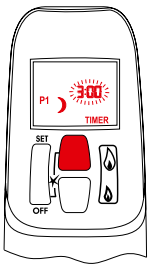


- Set the minutes by pressing the 🔥 (**small flame**) button.

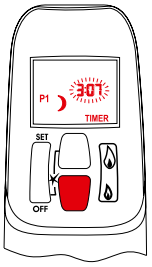
Setting P1 OFF Time



- Briefly press **SET** button to scroll to setting P1 OFF time. **P1** and ☽ are displayed and the time flashes.



- Set the hour by pressing the 🔥 (**large flame**) button.



- Set the minutes by pressing the 🔥 (**small flame**) button.

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Setting P2 ON Time

- Briefly press **SET** button to scroll to setting P2 ON time. **P2** and ☀ is displayed and the time flashes.
- See instructions “Setting P1 ON Time”.

Setting P2 OFF Time

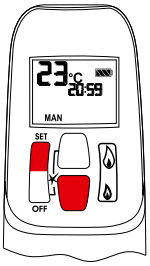
- Briefly press **SET** button to scroll to setting P2 OFF time. **P2** and ☽ is displayed and the time flashes.
- See instructions “Setting P1 OFF Time”.
- This concludes programming Timers P1 and P2. Press **OFF** or wait. The handset will automatically save your changes.

2ND BURNER FUNCTION

The latching solenoid valve will open automatically after ignition or after switching the system OFF, so that the maximum flow of gas is supplied to both burners assisting with the ignition process. After pressing the button for the 2nd burner the motor will turn 15 seconds in the ON direction until the max. position is reached.

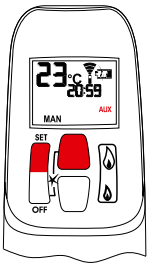
A latching solenoid with reverse polarity and reverse operation is available as an option. Contact Maxitrol for more information.

To Turn Off 2nd burner



- Upon ignition main burner and decorative burner are ON.
- Simultaneously press **SET** and 🔥 (**small flame**) buttons to switch the burner OFF. Printed instructions are on the battery cover (see figure 22).

To Turn On 2nd burner



- Simultaneously press **SET** and 🔥 (**large flame**) buttons to switch burner ON. (The **AUX** symbol on the display indicates the solenoid valve is OPEN.)

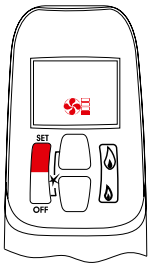
NOTE: The operation of the AUX is blocked in timer OFF mode, when the setting of the ☽ Nighttime Setback Temperature is “--”.

NOTE: The latching solenoid valve cannot operate manually. If the receiver battery runs down it will remain in the last operating position.

Figure 22: Instructions for Latching Solenoid Valve (on battery cover)

CIRCULATING FAN OPERATION

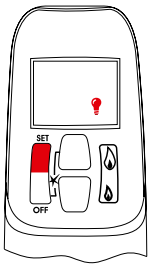
The circulating fan has 4 speed levels from low (1 bar) to high (4 bars).



- Briefly press **SET** button to scroll to (**fan**) mode. Fan and Level icons flash.
- Press 🔥 (**large flame**) button to switch ON the fan and increase fan speed.
- Press 🔥 (**small flame**) button to decrease fan speed.
- To turn OFF fan, press 🔥 (**small flame**) button until all 4 speed level bars disappear.

NOTE: 8 seconds after the fan has been set, the handset will automatically go into Thermostatic Mode (CSA version) or Manual Mode (CE version). The fan starts 4 minutes after the gas opens (from OFF or from PILOT) at maximum speed and goes to the displayed level after 10 seconds. The fan stops 10 minutes after the gas is OFF or at PILOT.

LIGHT/DIMMER OPERATION



- Briefly press **SET** button to scroll to (**light bulb**) mode. Light bulb icon flashes.
- Press and hold 🔥 (**large flame**) button to turn ON the light or increase brightness.
- Press and hold 🔥 (**small flame**) button to decrease brightness.
- In the Light/Dimmer Mode, the **OFF** button shuts OFF the light.
- If you want the light ON but no flame, press and hold the 🔥 (**small flame**) button and turn to pilot flame.

NOTE: The light bulb icon is displayed during light/dimmer setting only. 8 seconds after the light/dimmer has been set, the handset will automatically go into Thermostatic Mode (CSA version) or Manual Mode (CE version).

ENGLISH

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NOTES

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