

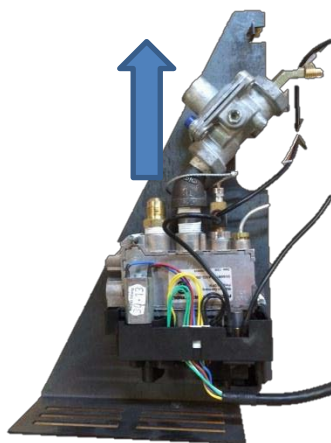
CONTROL SYSTEM CONCEALER (CSC)

CONNECTION AND VALVE INSTRUCTIONS WITH TROUBLESHOOTING GUIDE



The Control System Concealer (CSC) can be used with any Hargrove burner accessory kit (shown with Ember burner (EB)). The CSC allows the electronic ignition non standing pilot valve and controls to be safely installed under the burner and grate components. When properly sized using the Hargrove sizing chart the entire burner kit will be installed on the middle portion of the CSC allowing the 2 outside pieces to be removed for access to the valve and control/battery module.

outlet to burner



gas supply inlet

To install, connect the gas to the inlet of the gas valve, and the flex connector (FCNW-18) included in you accessory kit to the burner and connect the pilot to the burner.

Install battery/control on the opposite side of the CSC and install the accessory and log kits per the instructions provided with those kits.

WARNING – DO NOT COVER THE VENTS WITH ANY MATERIAL, DOING SO WILL CAUSE OVERHEATING AND VOID THE WARRANTY.

GV60

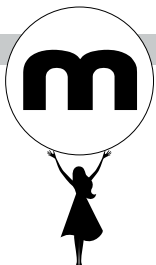
Remote Electronic Ignition and Control System



ENGLISH - INSTALLATION AND OPERATING INSTRUCTIONS



FC CE 0085



Precision Engineering for Multiple Markets

MERTIK MAXITROL®

Exclusive Distributor for Maxitrol Company

CONTENTS

IMPORTANT SAFETY INFORMATION2

OPERATING INSTRUCTIONS

General Notes 3
Setting the Electronic Code..... 3
To turn ON Appliance 4
To turn OFF Appliance 4
Flame Height Adjustment 4
To open and close Solenoid Valve/Burner 5
Light/Dimmer Operation 5
Circulating Fan Operation 5
Modes of Operation 6
Setting °C/24 Hour or °F/12 Hour Clock6
Setting the Time 6
Setting the ON/OFF Temperatures 7
Setting Program Timers 7
Manual Operation 8
Turn OFF Gas to Appliance 9
Automatic Turn Down 9
Automatic Shut Off 9

ENGLISH

IMPORTANT SAFETY INFORMATION

⚠ WARNING

Fire or explosion hazard. Read these instructions carefully. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life. The product must be installed and operated according to all codes and local regulations.

Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable Standards. Failure to follow these Instructions and/ or Standards may cause property damage, personal injury, or loss of life.

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

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.

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 accordance with the National Fuel Gas Code ANSI Z223.1/NFPA 54 or the IFGC or CSA B149.1. 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 this control or any gas appliance if any part has been under water or in contact with water. Immediately call a qualified service technician to replace the control system and any gas control that has been under water or in contact with water.

⚠ WARNING

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 accordance 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.

GENERAL NOTES

Radio Frequency Handset

433.92 MHz for Europe; 315 MHz for U.S. (FCC ID: RTD-G6R) and for Canada (IC: 4943A-G6R).

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICE

Wiring of valve and receiver must be completed before starting ignition. Failure to do so could damage the electronics.

Batteries – Handset

- 1 x 9V (quality alkaline recommended).
- Low battery indicator on handsets with display.
- Handsets without display: the red LED gets darker.
- Battery replacement is recommended after 2 years.

Batteries – Receiver

- 4 x 1.5V "AA" (quality alkaline recommended).
- Low battery indication: frequent beeps for 3 seconds when motor turns.
- An AC Mains Adapter may be used instead of batteries.

NOTICE

Only the Mertik Maxitrol AC Mains Adapter or one preapproved by Mertik Maxitrol can be used. Use of other adaptors can render the system inoperable.

- The module for fan speed control and light/dimmer includes mains power together with batteries in the receiver for automatic backup in case of power outage.
- Without using a mains adapter, battery replacement is recommended at the beginning of each heating season.

NOTICE

The handsets, receivers, wall switches, switch panels and touch pads are not interchangeable with previous electronics (see figure 21).



Figure 21: Previous Handset

NOTICE

Replacement handsets for CSA models also must have the same part number (see label).

SETTING THE ELECTRONICS CODE

(First time use only.)

Radio Frequency Handset

A code is selected automatically for all Mertik Maxitrol electronics from among 65,000 random codes available. The receiver has to learn the code of the handset:

- Press and hold the receiver's reset button (see figure 22) until you hear two (2) beeps. The first beep is short and the second beep is long. After the second beep, release the reset button.
- Within the subsequent 20 seconds press the \downarrow (small flame) button on the handset until you hear two additional short beeps confirming the code is set. If you hear one long beep, this indicates the code learning sequence has failed or the wiring is incorrect.

NOTE: This is a one time setting only, and is not required after changing the batteries of the handset or receiver.



Figure 22: Receiver Reset Button

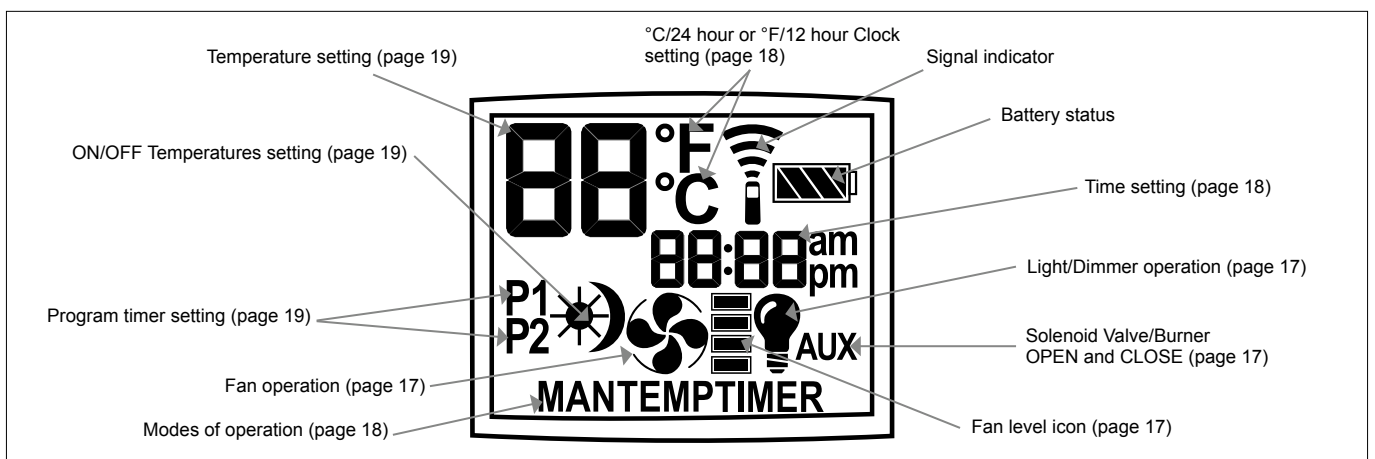


Figure 20

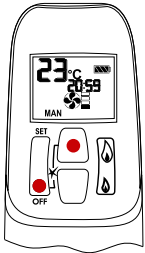
TO TURN ON APPLIANCE

▲ WARNING

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

- Turn MANUAL knob to the **ON**, full counterclockwise position.
- Place ON/OFF switch (if equipped) in **I (ON position)**.

Handset



- 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 (CSA version, CE version).

Wall Switch/ Touch Pad/ Switch Panel

- Press button “B” (see figure 23) 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 “TURN OFF GAS TO APPLIANCE” (page 21).

STANDBY MODE (Pilot Flame)

Handset

- Press and hold (small flame) to set appliance at pilot flame.

Wall Switch/ Touch Pad/ Switch Panel

- Press and hold button “C” (see figure 23) to set appliance at pilot flame.

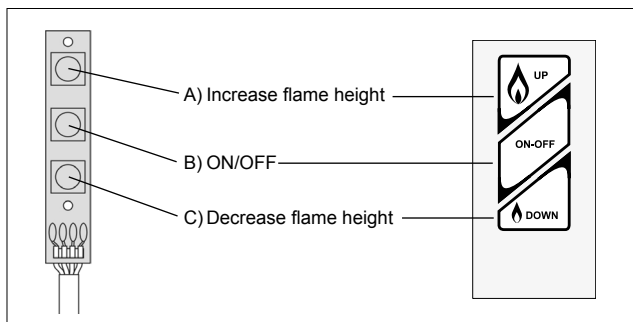
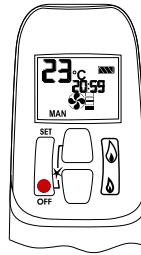


Figure 23: Switch Panel and Wall Switch/Touch Pad

TO TURN OFF APPLIANCE



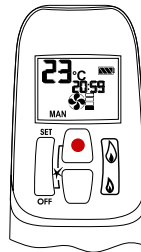
Handset

- Press **OFF** button.

Wall Switch/ Touch Pad/ Switch Panel

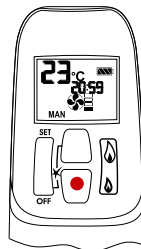
- Press button “B” (see figure 23).

FLAME HEIGHT ADJUSTMENT



Handset

- In standby mode: Press and hold (large flame) button to increase flame height.

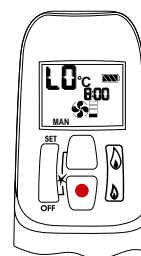


- Press and hold (small flame) button to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap the (large flame) or (small flame) buttons.

Wall Switch/Touch Pad/Switch Panel

(See figure 23)

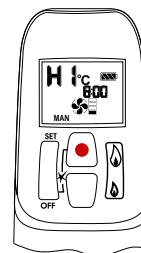
- Press and hold button “A” to increase flame height.
- Press and hold button “C” to decrease flame height or to set appliance at pilot flame.
- For fine adjustment tap button “A” or “C”.



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.



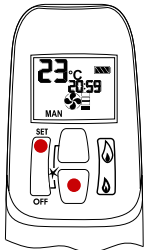
- Double-click (large flame) button. Flame automatically goes to high fire. “HI” will be displayed.

▲ WARNING

If the appliance will not operate, follow the instructions “TURN OFF GAS TO APPLIANCE” (page 21).

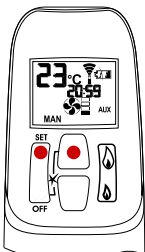
TO OPEN AND CLOSE SOLENOID VALVE/BURNER

NOTE: The latching solenoid valve cannot operate manually. If the battery runs down it will remain in the last operating position. During normal operation the solenoid valve will be reset to the ON position when the GV60 is switched OFF remotely.



Burner OFF

- 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 24).
- Simultaneously press SET and (large flame) buttons to switch Burner ON. (The AUX symbol on the display indicates the solenoid valve is OPEN.)



Burner ON

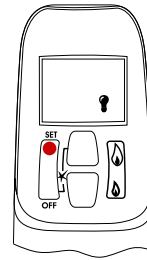
NOTE: The operation of the AUX is blocked in timer OFF mode, when the setting of the Nighttime Setback Temperature is “--”.



Figure 24: Instructions for Latching Solenoid Valve (on battery cover)

LIGHT/DIMMER OPERATION

– Light/Dimmer



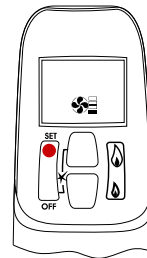
- Briefly press SET button to scroll to (light bulb) mode. Light bulb icon flashes.
- Press and hold (large flame) button to turn ON the light or increase brightness.
- Press and hold (small flame) button to decrease brightness.
- In the Light/Dimmer mode, the OFF button shuts OFF the light.
- If you 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 temperature control mode (CSA version) or manual mode (CE version).

CIRCULATING FAN OPERATION

– Circulating Fan

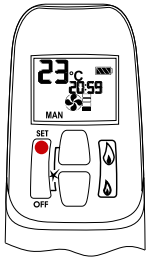
The circulating fan has 4 speed levels from low (1 bar) to high (4 bars).



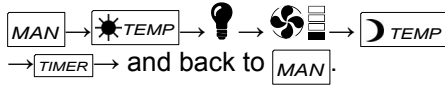
- Briefly press SET button to scroll to (fan) mode. Fan and Level icons flash.
- Press (large flame) button to switch ON and increase fan speed.
- Press (small flame) button to decrease fan speed. To turn OFF fan, press (small flame) button until all 4 speed level bars disappear.

NOTE: 8 seconds after the fan has been set, the handset will automatically go into temperature control 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.

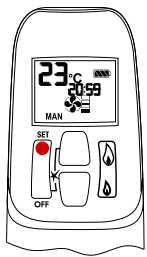
MODES OF OPERATION



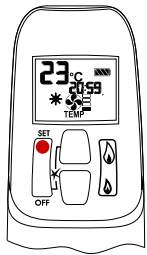
- Briefly pressing the SET button changes the mode of operation in the following order:



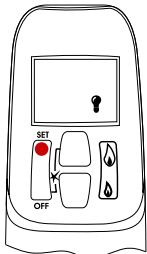
NOTE: Manual mode can also be reached by pressing either the (large flame) or the (small flame) button.



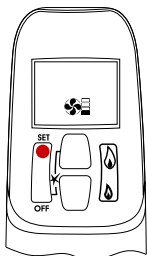
- **MAN** – **Manual Mode**
Manual flame height adjustment.



- **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.

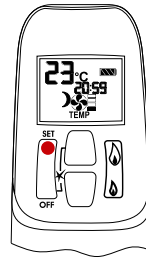


- **Light/Dimmer Setting Mode**
Turns light/dimmer ON and OFF and adjusts brightness.

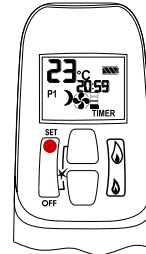


- **Circulating Fan Setting Mode**
Turns circulating fan ON and OFF and adjusts fan speed.

NOTE: To turn OFF fan press (small flame) until all 4 speed level bars disappear.



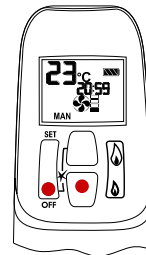
- **TEMP** – **Nighttime Setback Temperature Mode** (Appliance must be in standby mode; pilot ignited)
The room temperature is measured and compared to the Nighttime Setback Temperature. The flame height is then automatically adjusted to achieve the Nighttime Setback Temperature.



- **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.

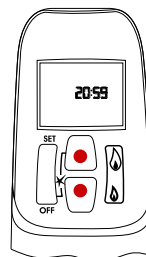
NOTE: The display shows the set temperature every 30 seconds.

SETTING °C/24 HOUR OR °F/12 HOUR CLOCK



- Press **OFF** and (small flame) button until display changes from Fahrenheit/12 hour clock to Celsius/24 hour clock and vice versa.

SETTING THE TIME

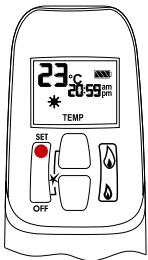



- The Time display will flash after either:
a) Installing the battery or
b) Simultaneously pressing the (large flame) and (small flame) buttons.
- Press (large flame) button to set the hour.
- Press (small flame) button to set the minute.
- Press **OFF** or simply wait to return to manual mode.

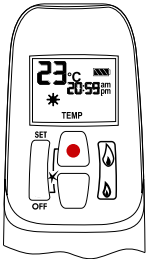
SETTING THE ON/OFF TEMPERATURES



Setting the "DAYTIME" Temperature

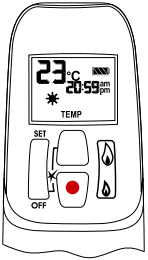
DEFAULT SETTINGS:  TEMP (sun), 23°C/74°F





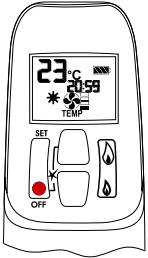
- Briefly press SET button to scroll to TEMP  TEMP (sun) mode. Hold the SET button until the TEMP flashes.



- Press  (large flame) button to increase  Daytime Set Temperature.



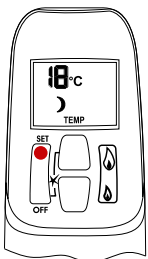
- Press  (small flame) button to decrease  Daytime Set Temperature.




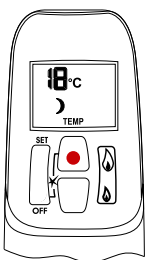
- Press OFF or simply wait to complete programming.



Setting the "NIGHTTIME SETBACK" Temperature

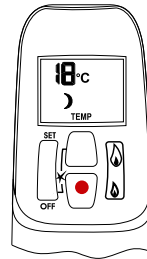
DEFAULT SETTINGS:  TEMP (moon), "--" (OFF)





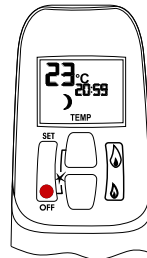
- Briefly press SET button to scroll to TEMP  TEMP (moon) mode. Hold the SET button until the TEMP flashes.



- 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

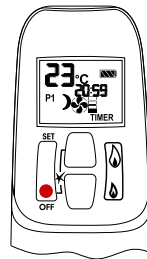
CE: Program 1: P1  6:00 P1  8:00

Program 2: P2  23:50 P2  23:50

CSA: Program 1: P1  6:00^{am} P1  8:00^{am}


Program 2: P2  11:50^{pm} P2  11:50^{pm}

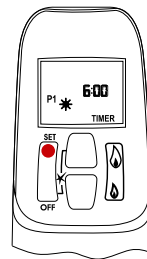
- 2 ON times can be programmed  per day.
- CE: The day starts at 0:00, ends at 23:50.
- CSA: The day starts at 12:00^{am}, ends at 11:50^{pm}.
- The ON/OFF times have to be programmed in the order P1  ≤ P1  < P2  ≤ P2 .
- If P1  = P1  or P2  = P2  the timer is deactivated.
- To have the fire over night,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




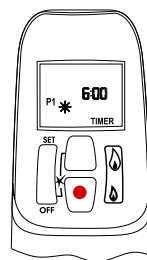
- Select Timer Mode by briefly pressing the SET button.

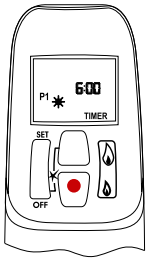
Setting P1 ON Time

- Hold the SET button until P1  (sun) is displayed and the time flashes.

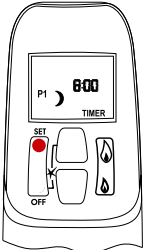


- Set the hour by pressing the  (large flame) button.



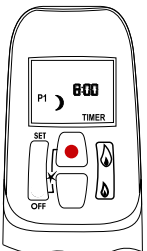


- Set the minutes by pressing the (small flame) button.

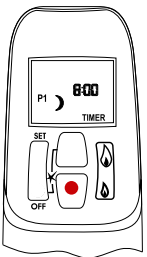


Setting P1 OFF Time

- Briefly press **SET** button to scroll to setting P1 OFF time. P1 (moon) is displayed and the time flashes.



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



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

Setting P2 ON Time

- Briefly press **SET** button to scroll to setting P2 ON time. P2 (sun) 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 (moon) 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.

MANUAL OPERATION

(Only possible, when MANUAL knob is used)

Access to the pilot burner is only required for ignition with a match.

When turning main valve knob, do not force. Knob has a slip clutch that clicks until the end stops are reached. This allows for manual flame height adjustment as well as adjustment to pilot standby position.

1. **STOP!** Read the safety information included before proceeding.
2. Turn main valve knob to the **OFF**, full clockwise position.
3. Turn MANUAL knob to the **MAN**, full clockwise position.
4. Place ON/OFF switch (if equipped) in **O** (OFF position).
5. Wait five (5) minutes to clear out any gas. Verify that no gas is in the area around the appliance, including near the floor. **If you detect gas STOP! Follow “WHAT TO DO IF YOU SMELL GAS” in the safety information on page 2.** If no gas is present, proceed to step 6.
6. Place ON/OFF switch (if equipped) in **I** (ON position).
7. With the MANUAL knob in **MAN** position a manual pilot valve operator and piezo ignitor (optional) are accessible.
8. Fully push down manual pilot valve operator and hold in, to start pilot gas flow (see figure 25, page 21).

Ignition with match:

Immediately light the pilot with a match, while continuing to hold in the manual pilot valve operator for about one (1) minute after the pilot is lit. Release manual pilot valve operator. If pilot does not stay lit, wait five (5) minutes and repeat.

Ignition with piezo ignitor:

Change the ignition cable from the receiver to the valve (see figure 25, page 21). Push in the piezo ignitor to ignite. If pilot does not stay lit, wait five (5) minutes and repeat.

▲ WARNING

If the pilot does not stay lit after several tries, turn the gas control knob (main valve knob) to **OFF** and proceed to step 12.

9. If applicable, replace pilot access panel before proceeding.
10. Turn MANUAL knob to the **ON**, full counterclockwise position.
11. Turn main valve knob to the full **ON**, full counterclockwise position.
12. If the appliance will not operate, follow the instructions “TURN OFF GAS TO APPLIANCE” (page 21).

TO TURN OFF GAS TO APPLIANCE

1. Place ON/OFF switch (if equipped) in **O** (OFF position).
2. If gas control is accessible turn main valve knob to the **OFF** full clockwise ↻ position.
3. Replace appliance access cover (if applicable).

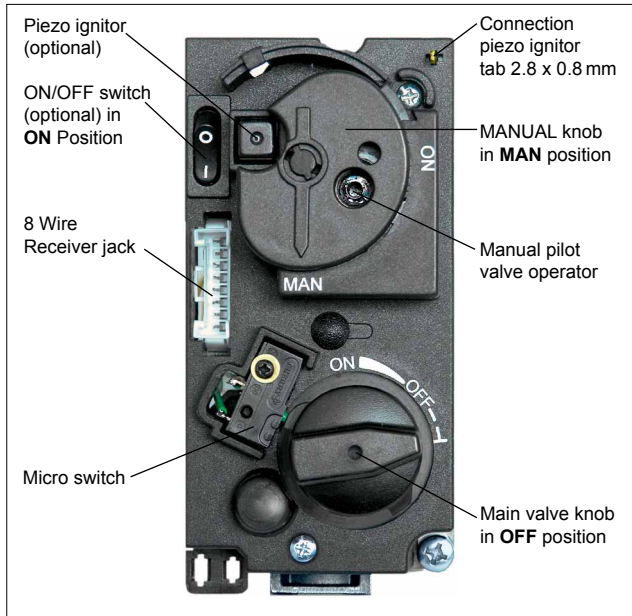


Figure 25: Combination control, cover

AUTOMATIC SHUT OFF**Low Battery Receiver**

- With low battery power in the receiver the system shuts off the fire completely. This will not happen if the power supply is interrupted.

Five Day Shut Off

(CSA version)

- The system shuts off the fire completely if there is no change in flame height for 5 days.

Second Thermocouple Shut Off

- Second Thermocouple Option: The system shuts off the fire if the main burner does not completely ignite approximately 20 seconds after ignition or after pushing the 🔥 (large flame) button.

NOTE: Before the next ignition there is a 2 minute waiting period.

AUTOMATIC TURN DOWN**6 Hour no Motor Movement**

(CSA version)

- Manual Mode/Temperature/Timer Mode: The valve will turn to pilot flame if there is no change in flame height for a 6 hour period. In Temperature/Timer Mode if the ambient room temperature changes, the flame height will adjust automatically to maintain set temperature, and the fire will continue to function normally. The valve will turn to pilot flame if the set temperature and the ambient room temperature remain the same over a 6 hour period.

Receiver Overheating

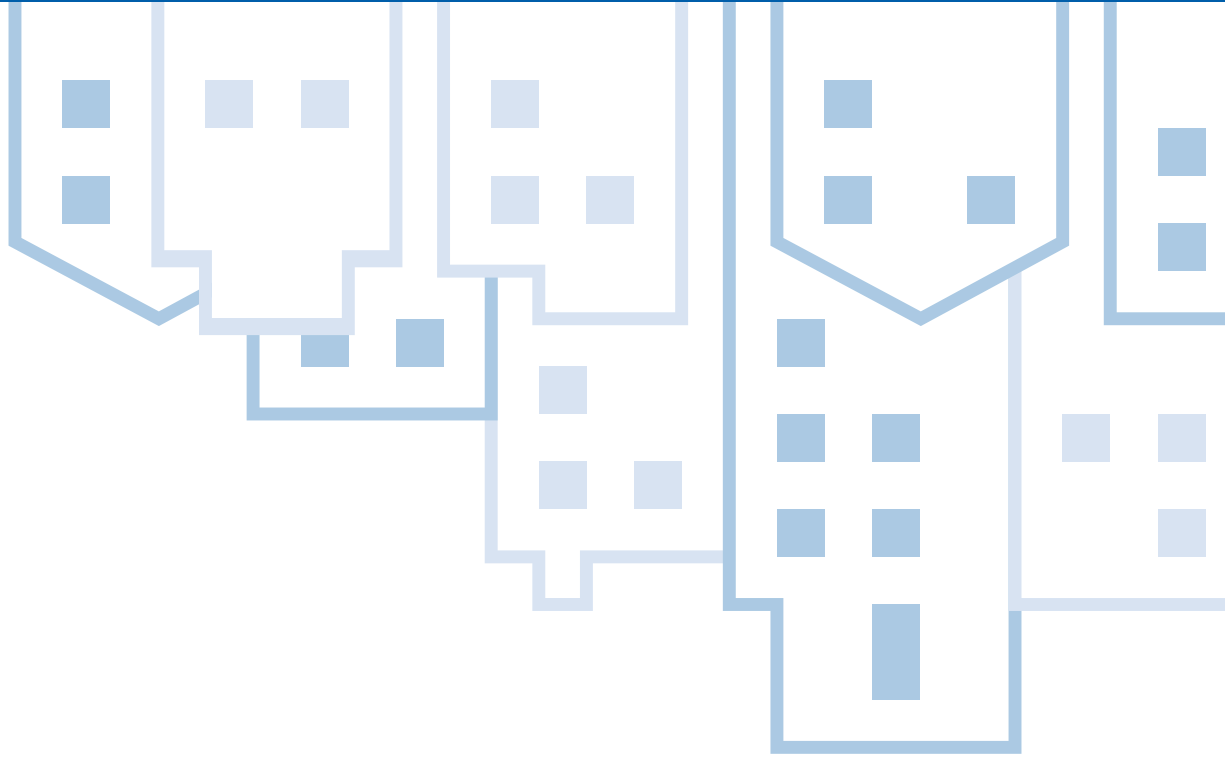
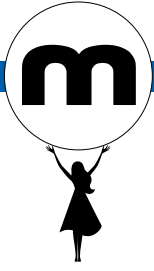
(only if module is connected)

- Valve turns to pilot flame if the temperature in the receiver is higher than 140°F (60°C). The main burner comes back on only when the temperature is below 140°F (60°C).

1 Hour Turn Down for Special Receiver

(bedroom fireplaces only)

- The valve will turn to pilot flame if there is no change in flame height over a 1 hour period.



MERTIK MAXITROL®

Exclusive Distributor Europe
for Maxitrol Company

Mertik Maxitrol GmbH & Co. KG
Warnstedter Str. 3
06502 Thale
Germany
Tel: + 49 3947 400-0
Fax: + 49 3947 400-200
www.mertikmaxitrol.com

MAXITROL®

Exclusive Distributor North America
for Mertik Maxitrol

Maxitrol Company, Inc.
23555 Telegraph Rd., PO Box 2230
Southfield, MI 48037-2230
USA
Tel: +1 248-356-1400
Fax: +1 248-356-0829
www.maxitrol.com

GV60-B-OI-EN-01.2013

GV60 Remote Electronic Ignition and Control System

For 2008 and 2010 GV60 Systems Not Using Manually Selected Codes.

INSTALLER TROUBLESHOOTING GUIDE

FOR OEM USE ONLY

▲ WARNING

Read the INSTALLATION AND OPERATING INSTRUCTIONS for the GV60 REMOTE ELECTRONIC IGNITION AND CONTROL SYSTEM carefully. 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 and experienced service technician.

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.

This control **must** be installed and operated **strictly** in accordance with the instructions of the OEM and with all applicable government codes and regulations, e. g. plumbing, mechanical, and electrical codes and practices. These instructions do not supersede OEM's installation or operating instructions.

Do **NOT** use a Mertik Maxitrol control if you suspect it has been subjected to high temperatures, damaged, tampered with, or taken apart. Do **NOT** use a Mertik Maxitrol control if you suspect

it has been under water or that liquids has seeped into the Valve. Any of these incidents can cause leakage or other damage that may affect proper operation and cause potentially dangerous combustion problems.

Damper position must be in accordance with Manufacturer's Installation Instructions and all applicable Standards. Failure to follow them could result in a fire or explosion causing property damage, personal injury, or loss of life.

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 store or use gasoline or other flammable vapors and liquids in the vicinity of this control or other appliances.

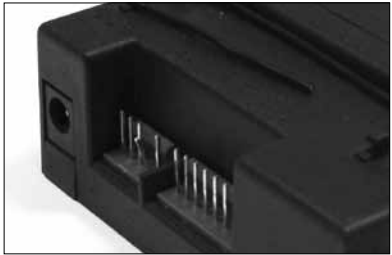
ELECTRIC SHOCK HAZARD




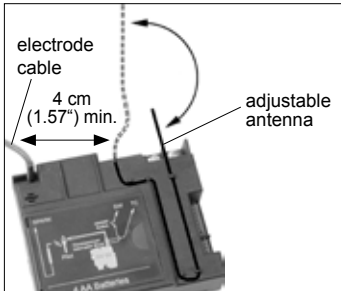
This control must be electrically wired and operated in accordance with all codes and local regulations. Service and installation must be performed by a trained and experienced service technician. Do not use the control if you suspect it may be damaged.



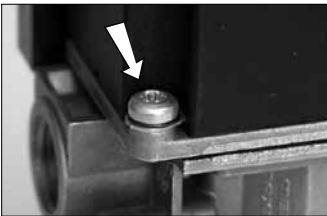
NOTICE

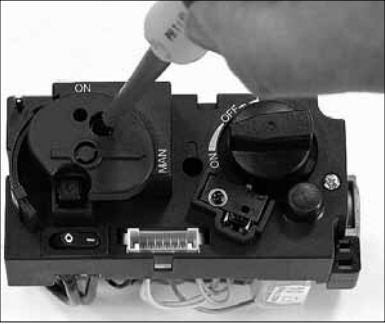
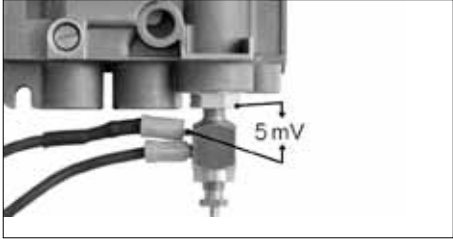
Wiring of the Valve and Receiver must be completed before installing any batteries and starting ignition.

If the Receiver is in a metal box or metal heat shield that is separated from the Valve and is not connected by a secured ground, an additional wire is recommended to connect the metal box to the Valve.

	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY									
A	Will not operate with Touch Pad/ Wall Switch/Switch Panel.	1. Bent pin	Straighten pin, replace Touch Pad, Switch and/or cable (see figure 1).  Figure 1									
		B	Will not operate with Handset	<table border="1"> <tr> <td>1. Transmitter batteries low</td> <td>Replace Transmitter batteries. Quality alkaline recommended.</td> </tr> <tr> <td>2. Receiver batteries low</td> <td>Replace Receiver batteries with 1.5V "AA" quality alkaline batteries.</td> </tr> <tr> <td>3. Optional Mains Adapter not operating properly</td> <td>Check Mains Adapter.</td> </tr> <tr> <td>4. Check coding of Transmitter and Receiver (Initial sync.)</td> <td>Learn new code (reset). See label on Receiver.</td> </tr> <tr> <td>5. Transmitter distance limited</td> <td> <ol style="list-style-type: none"> 1. Straighten the antenna. 2. Replace Receiver. See wiring diagrams, pg. 8–12, in the operating/installation instructions for the GV60 </td> </tr> </table>	1. Transmitter batteries low	Replace Transmitter batteries. Quality alkaline recommended.	2. Receiver batteries low	Replace Receiver batteries with 1.5V "AA" quality alkaline batteries.	3. Optional Mains Adapter not operating properly	Check Mains Adapter.	4. Check coding of Transmitter and Receiver (Initial sync.)	Learn new code (reset). See label on Receiver.
1. Transmitter batteries low	Replace Transmitter batteries. Quality alkaline recommended.											
2. Receiver batteries low	Replace Receiver batteries with 1.5V "AA" quality alkaline batteries.											
3. Optional Mains Adapter not operating properly	Check Mains Adapter.											
4. Check coding of Transmitter and Receiver (Initial sync.)	Learn new code (reset). See label on Receiver.											
5. Transmitter distance limited	<ol style="list-style-type: none"> 1. Straighten the antenna. 2. Replace Receiver. See wiring diagrams, pg. 8–12, in the operating/installation instructions for the GV60 											

	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
C	No transmission: (motor does not turn)	1. Dead batteries	<p>Replace the batteries in the Receiver and/or Remote Handset (quality Alkaline recommended).</p> <p>▲ WARNING</p> <p>Do not use metal tools to remove batteries. Doing so will render the Receiver inoperable (see figure 2).</p>  <p>Figure 2</p> <p>Application with internal and external battery box:</p> <p>▲ WARNING</p> <p>Battery clip (see figure 3) must not come into contact with metal parts after unplugging the external battery holder, because there is voltage stored in the Receiver.</p>  <p>Figure 3</p>
		2. Receiver must learn new code.	<p>Press and hold the Receiver's reset button (see figure 4) until you hear 2 acoustic signals. After the second, longer acoustic signal, release the reset button. Within the subsequent 20 seconds press the ⚡ (small flame) button on the Remote Handset until you hear an additional long acoustic signal confirming the new code is set.</p>  <p>Figure 4</p>
		3. The Receiver is surrounded by metal, reducing the transmission range.	<p>Change the position of the adjustable antenna.</p> <p>▲ WARNING</p> <p>Make sure that the adjustable antenna is not too close to the electrode cable and ignition coil (beneath the cover). It will damage the Receiver (see figure 5).</p>  <p>Figure 5</p>

	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
C	Continued No transmission: (motor does not turn)	4. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		5. Transmitter	Replace the Transmitter and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		6. Bent pins on 8 Wire Connector on the Valve and Receiver (see figures 6 and 7)	Straighten pins on 8 Wire Connector.  Figure 6
		7. Wiring at Valve damaged	Replace Valve.
		8. IR-Eye (Infrared remote only)	Replace (check and change).
D	No ignition; no tone:	1. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
E	No Ignition; one 5 second continuous tone:	1. ON/OFF Switch is in (O) OFF position.	Push Switch to (–) ON position (see figure 7).  Figure 7 ON/OFF Switch 8 Wire Connector
		2. Loose wire	Secure wire.
		3. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		4. Bent pins on 8 Wire Connector (see figures 7 and 9)	Straighten pins on 8 Wire Connector.
		5. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.
F	Ignition stops after the first spark	1. Loose ground connection at the Valve  Figure 8	Check ground connection at the Valve and tighten screw (see figure 8).
G	No pilot flame but spark:	1. No gas supply	Check the gas supply.
		2. Air in the pilot supply line	Purge the line or start ignition several times.
		3. No spark at Pilot Burner	Check manufacturer's instructions for pilot setup; check wiring connection. Check for spark in location along Cable.
		4. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.

	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
G	Continued No pilot flame but spark:	5. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		6. Thermocouple circuit wired incorrectly	Check polarity of the Thermocouple Wires.
H	Pilot is lit and sparking stops. Valve shuts off after 10...60 seconds. Valve does not operate manually: NOTE: For manual operation turn the Valve knob to the manual position and hold the safety magnet open with a pen for approximately 60 seconds (see figure 9).	1. Not enough voltage generated from the Thermocouple or too much resistance in the circuit. NOTE: To find which part of the circuit is causing the problem, a checklist for each application can be prepared using an Excel calculation available from Meritk Maxitrol. Possible parts causing excessive resistance are: ON-OFF Switch, Temperature Switches, Thermocurrent Connections, Receiver.	Use a digital multimeter set in the mV range and measure the voltage by connecting the test leads to the spade connector. Spade connector is located on the outer surface, directly beside the magnet nut (see figure 10). The available voltage must be at least 5mV. The manufacturer must specify the drop time for the application. The drop time can be measured after the Thermocouple is heated.
			
		2. Thermocouple	Replace Thermocouple.
		3. Low inlet pressure to Valve	Confirm sufficient inlet pressure to the Valve. Adjust or replace inlet regulator if necessary.
I	Frequent beeps for 3 seconds while motor turns.	4. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.
		1. Batteries (Receiver) are low	Replace batteries (Quality Alkaline recommended). ⚠ WARNING Do not use metal tools to remove batteries. Doing so will render the Receiver inoperable (see figure 2).
J	Pilot flame lights but there is no main gas flow	2. Thermocouple	Replace Thermocouple.
		3. Low inlet pressure to Valve	Confirm sufficient inlet pressure to the Valve. Adjust or replace inlet regulator if necessary.
		4. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.
K	Latching Solenoid does not work.	1. Manual override knob (if equipped) is in MAN position.	Turn manual override knob to ON position (see figure 7).
		2. Valve turned down to pilot flow.	Turn flame to high fire by pressing up button on remote handset.
		3. Valve	Replace Valve. Do not overtighten the Thermocouple Interrupter.
		4. Handset	Check that the Handset shows the AUX-symbol if you press SET + UP
L	Fan/Light do not work.	1. Loose connection	Check connection is tight and pins are straight.
		2. Latching Solenoid	Replace Latching Solenoid
		3. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
L	Fan/Light do not work.	4. Handset	Check that the Handset shows the AUX-symbol if you press SET + UP
		1. No Mains Power	Confirm Mains Power supply.
		2. Wired incorrectly	Check Light and Fan are plugged into the correct connector. Check wiring.
		3. Fan and/or Light do not function.	Replace Fan or Light.

	OBSERVED PROBLEM	POSSIBLE CAUSE	REMEDY
L	<i>Continued</i> Fan/Light do not work.	4. V-module	Replace V-module.
		5. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
M	Relay with Cable or Power Flue does not work.	1. Wired incorrectly.	Check wiring and Relay contacts.
		2. Relay with Cable or Power Flue Control does not function.	Replace Relay/Power Flue Control.
		3. Receiver	Replace Receiver and reprogram code (see OBSERVED PROBLEM C, REMEDY to POSSIBLE CAUSE 2).
		4. Handset	Check that the handset label shows the right part number.
N	Electronics do not work: (Motor does not turn, no beeping, or no sparks).	1. The Receiver is in a metal box or metal heat shield, this box is separated from the Valve, and is not connected by a secure ground.	An additional wire is required to connect the metal box to the Valve (see figure 11). Press the Receiver's reset button (see figure 4).

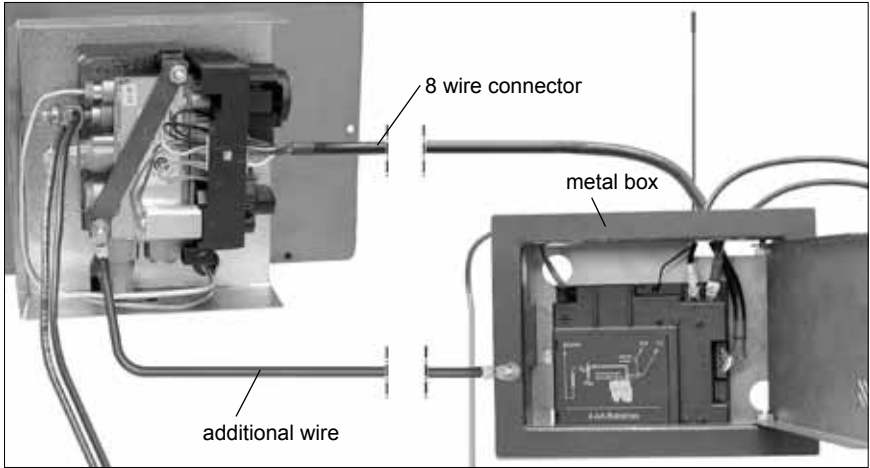


Figure 11