

**GV60 Remote Electronic Ignition and Control System
for use with Symax Handsets and myfire® App**

Installation and Operating Instructions

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IMPORTANT SAFETY INFORMATION

▲ WARNING

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.

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 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.

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.

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

▲ 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.

INSTALLATION INSTRUCTIONS

APPLICATION

GV60 is a battery-powered electronic remote ignition and control system for gas appliances with pilot burners and ODS systems.

COMPONENTS

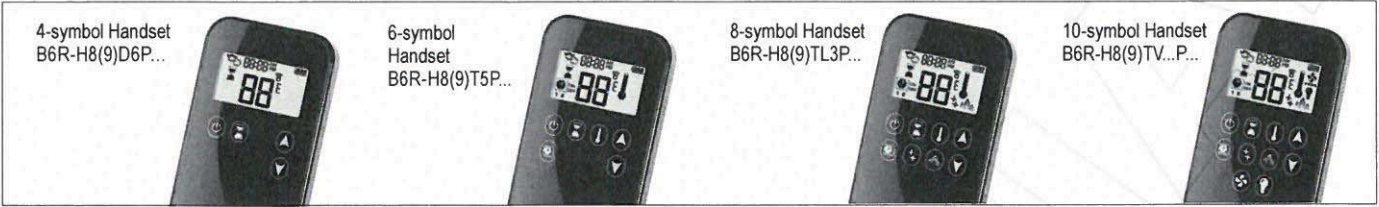


Figure 1: Handsets

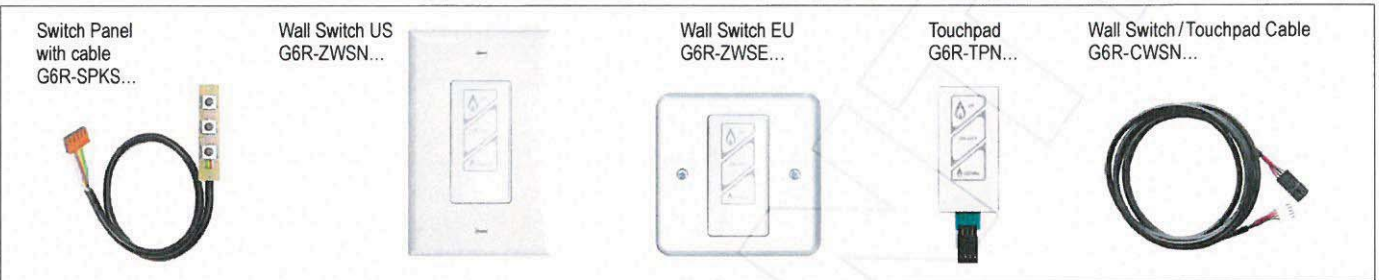


Figure 2: Operation

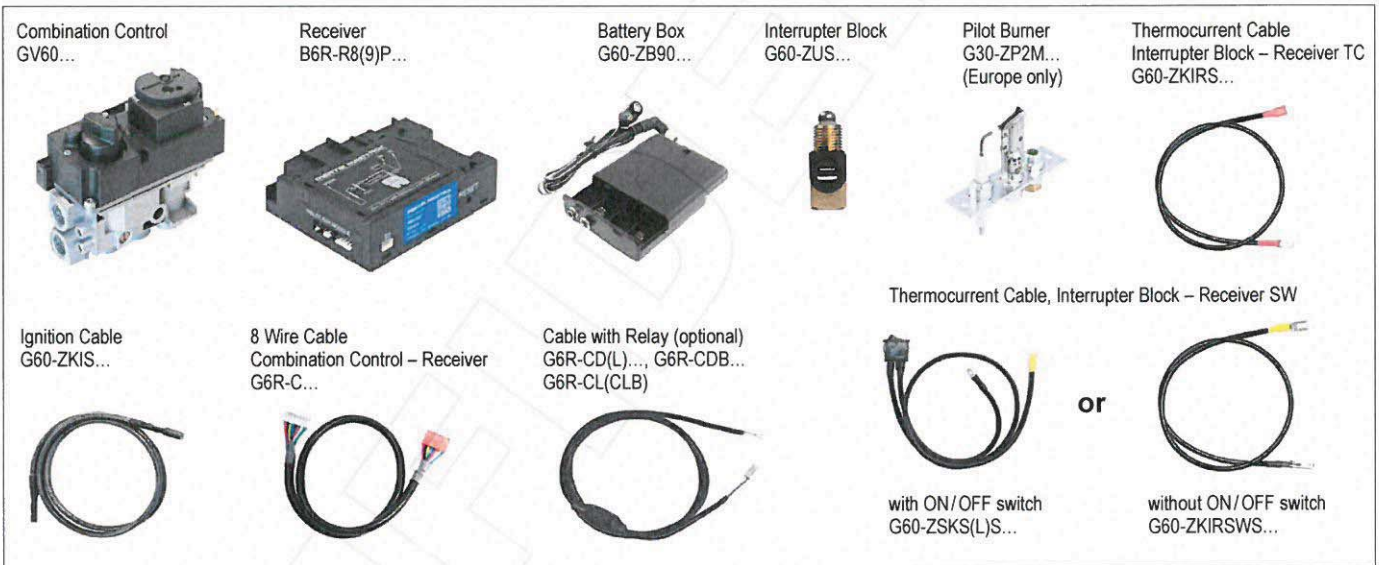


Figure 3: Basic

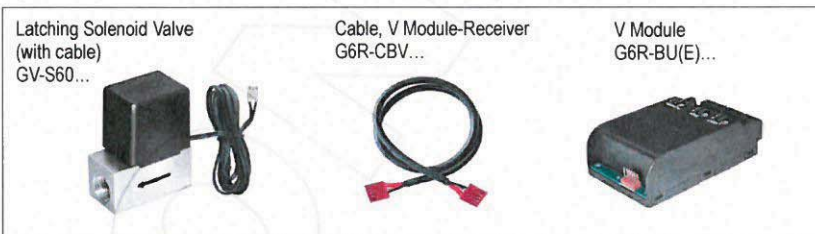


Figure 4: Additional Function (FAN, Light/Dimmer, Latching Solenoid)



Figure 5: Mains Adapter

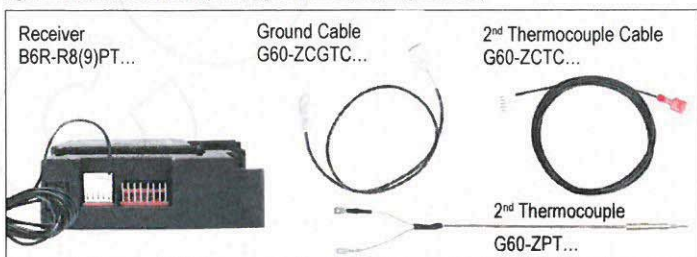


Figure 6: 2nd Thermocouple Option

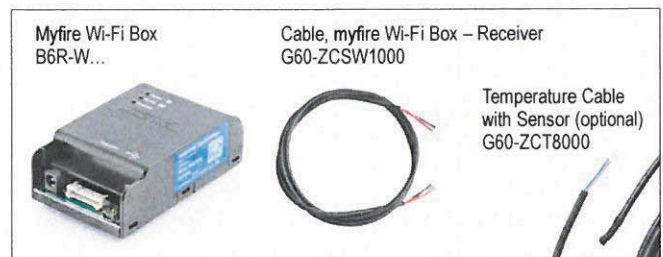


Figure 7: Myfire® App Setup

TECHNICAL SPECIFICATIONS

Gas combination control according to CSA or CE approval (see label for certification)

APPROVALS

- CSA: Multifunctional gas control according to ANSI Z21.78 6.20 and ANSI Z21.20 6.20 for U.S. & Canada
- CE: Gas Appliances Directive 2009/142/EEC and DIN EN 298, DIN EN 126, DIN EN 13611

FUELS

- CSA: Suitable for natural, manufactured, mixed gases, liquefied petroleum gases, and LP gas-air mixtures.
- CE: Suitable for use with gases of EN 437 gas family 1, 2 and 3.

PRESSURE DROP/CAPACITY

- CSA: @ 1" w.c. at 65,000 BTU/hr for 0.65 s.g. natural gas
- CE: 2.5 mbar at 1.2 m³/h air

RANGE OF REGULATION

- CSA: 10,000 to 85,000 BTU/hr
- CE: Class C according EN 88

REGULATOR ADJUSTMENT

- CSA: 3" w.c. to 5" w.c.; 8" w.c. to 12" w.c.
Convertible Regulator: 3 to 4.5" NG/8.5 to 11.5" LP
- CE+CSA: 3" w.c. to 12" w.c. (7.5 to 30 mbar)
- CE: 5 to 40 mbar (0.5 to 4 kPa)

MAXIMUM INLET PRESSURE

- CSA: ½ psi (14" w.c.)
- CE: 50mbar (5kPa)

MAIN GAS CONNECTION

- CSA: ¾ NPT (ANSI/ASME B1.20.1)
- CE: Rp ¾ (ISO 7-1/EN 10226-1), compression fittings for 8 mm, 10 mm or 12 mm tube

PILOT GAS CONNECTION

- CSA: 7/16-24 UNS for ¼" or ⅜" tubing
- CE: M10x1 for 4 mm or 6 mm tubing

INLET AND OUTLET CONNECTION

Side or Bottom

MAXIMUM ALLOWED TORQUE

- INLET, OUTLET, LATCHING SOLENOID ¾"
- CSA: 280 inch-pounds
- CE: 35 Nm

- LATCHING SOLENOID 8 mm tube

CE: 20 Nm

- PILOT GAS CONNECTION

CSA: 100 inch-pounds
CE: 15 Nm

THERMOCOUPLE / INTERRUPTER BLOCK

11/32-32 UNS, M10x1, M9x1, M8x1

AMBIENT TEMPERATURE RANGE

- CSA: Combination Control: 32°F to 176°F
Latching Solenoid Valve: 32°F to 176°F
Receiver without batteries: 32°F to 176°F
Receiver with batteries: 32°F to 131°F
Handset: 32°F to 131°F
Wall Switch/Touchpad: 176°F
Switch Panel: 221°F
V Module: 176°F
Myfire Wi-Fi Box: 32°F to 176°F

Ignition Cable: 302°F

Misc. cables: 221°F

Cable with Relay: 158°F

CE: Combination Control: 0°C to 80°C

Latching Solenoid Valve: 0°C to 80°C

Receiver without batteries: 0°C to 80°C

Receiver with batteries: 0°C to 55°C

Handset: 0°C to 55°C

Wall Switch/Touchpad: 80°C

Switch Panel: 105°C

V Module: 80°C

Myfire Wi-Fi Box: 0°C to 80°C

Ignition Cable: 150°C

Misc. cables: 105°C

Cable with Relay: 70°C

RADIO FREQUENCY

CSA: 915 MHz for U.S. and for Canada (Handset, Receiver)

CSA + CE: 2.4 GHz (myfire Wi-Fi Box)

CE: 868 MHz for Europe (Handset, Receiver)

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). 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. Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

POWER SUPPLY

Handset: 2 x 1.5V "AAA" (quality alkaline recommended)

Receiver: 4 x 1.5V "AA" (quality alkaline recommended)

An AC mains adapter may be used instead of batteries.

Myfire Wi-Fi Box: An AC mains adapter must be connected to the receiver.

NOTICE

Only the Mertik Maxitrol AC mains adapter (see page 3, figure 5) or one preapproved by Mertik Maxitrol can be used. Use of other adaptors can render the system inoperable.

HANDSETS

NOTICE

The handsets and receivers are not interchangeable with previous electronics.

MYFIRE WI-FI BOX

- WPA2 authentication
- AES 256-bit encryption security
- Compatible with IEEE 802.11n/g/b

V MODULE

- CSA: Inlet: 115 VAC/60 Hz; 210 VA
 Outlet: 115 VAC/60 Hz; 100 VA each
 Built-in fuse 2.5A
- CE: Inlet: 230 VAC/50 Hz; 210 VA
 Outlet: 230 VAC/50 Hz; 100 VA each
 Built-in fuse 2.5A

▲ WARNING

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.

▲ WARNING

It is the appliance manufacturer's responsibility to determine GV60's suitability for a specific application.

Do NOT remove screws from the gas valve. Do NOT adjust and/or alter any components marked with tamper indicating paint. Motor knob is not to be removed.

▲ WARNING

1. Turn off gas supply at the appliance service valve before starting installation, and perform a Gas Leak Test after the installation is complete.
2. Install the sediment trap or filter (where required) in the gas supply line to prevent contamination of the gas valve (see figure 8).
3. 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 will void warranty and can result in a fire or explosion.

MOUNTING POSITION

In upright position, gas control knobs are on top of the valve. Valve may be mounted 0° to 90° any direction (including vertical) from the upright position. Valve must NOT be mounted upside down.

Location

Locate the combination gas valve where it is not exposed to steam cleaning, high humidity, dripping water, corrosive chemicals, dust or grease accumulation, or excessive heat.

To assure proper operation, follow these guidelines:

- Locate combination gas valve in a well-ventilated area.
- Mount combination gas valve high enough to avoid exposure to flooding or splashing water.
- Make sure the ambient temperature does not exceed the ambient temperature ratings for each component.

▲ WARNING

GV60 standard version is suitable for indoor use only.

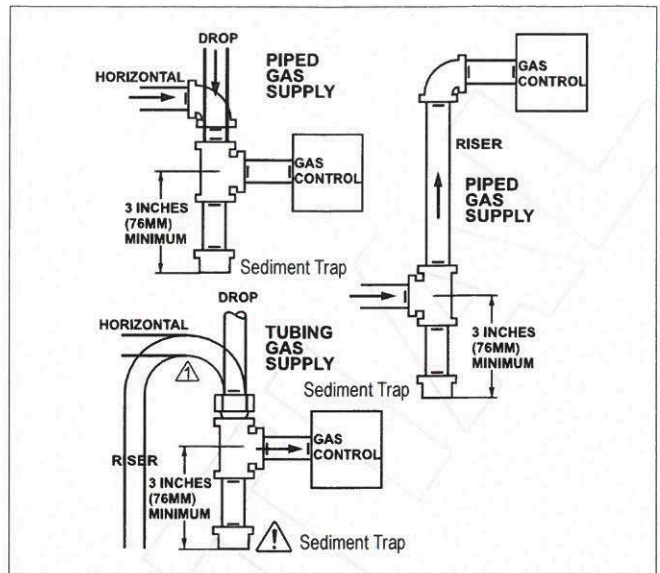


Figure 8: Sediment Trap (where required)

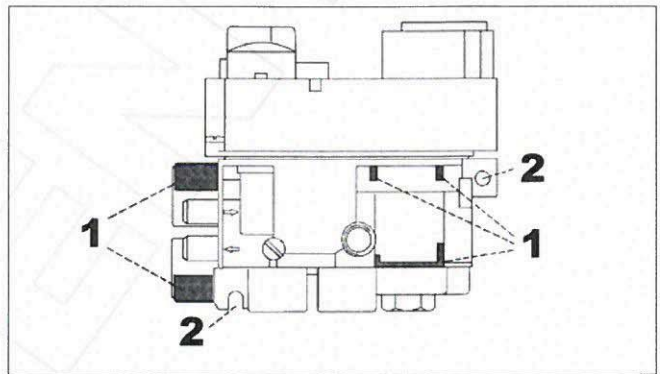


Figure 9: 1 = Clamp Areas, 2 = Mounting Points

GAS CONNECTIONS

▲ WARNING

Fire or Explosion Hazard. Can cause property damage, severe injury, or death. Do NOT bend tubing at gas valve connection point after compression fitting has been tightened. This can result in a gas leak at the connection.

▲ WARNING

Use new, properly reamed pipe free from metal or material chips. When tubing is used, assure that ends are square, deburred and clean. All tubing bends must be smooth and free of distortion.

When threads are tightened, the valve must be held at the designated clamping points (see figure 9).

▲ WARNING

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.

Main Gas (Tubing Connections)

1. Do not use pipe joint compound. Mertik Maxitrol does NOT recommend the use of Teflon®/PTFE tape.
2. Slip nut and ferrule over tubing.
3. Slide nut and ferrule into place, and insert tubing into inlet/outlet connection until it bottoms. Turn finger tight.
4. Use a wrench to tighten nut about 1 turn beyond finger tight.

▲ WARNING

Do not overtighten connections. Overtightening can damage the control body resulting in a leak or a control malfunction.

Main Gas (Pipe Connections)

1. Mertik Maxitrol does NOT recommend the use of Teflon®/PTFE tape.
2. Pipe to be inserted into the valve must be the proper thread length and to gauge. Thread that is cut too long can cause distortion or malfunction if inserted too deeply. Thread cut too short can cause thread stripping if over-torqued.
3. Apply a moderate amount of approved pipe sealant to the pipe only, leaving the two end threads bare.
4. Connect pipe to valve inlet and outlet.

▲ WARNING

Do not overtighten connections. Overtightening can damage the control body resulting in a leak or a control malfunction.

Pilot Gas (Tubing Connections)

1. Do not use pipe joint compound. Mertik Maxitrol does NOT recommend the use of Teflon®/PTFE tape.
2. Slip fitting over tubing.
3. Insert pilot tubing into pilot outlet until it bottoms. Turn fitting finger tight.
4. Turn with a wrench until you shear off the ferrule. Turn an additional ¼ turn to make a gastight seal.
5. Connect other end of tubing to pilot burner.

▲ WARNING

The control valve must be in the closed position when the gas supply line is tested for leakage up to 150 mbar (15 kPa; 2 PSI). Above 150 mbar (15 kPa; 2 PSI) the control valve must be isolated from the gas supply.

PERFORM GAS LEAK TEST

1. Check carefully for gas leaks immediately after the valve has been installed and the gas turned on. **Do this before attempting to operate the appliance or other gas burning device.**
2. Using a clean brush, apply an approved leak test solution to the tubing and pipe connections. Bubbles indicate a leak.
3. If no leakage is detected, light the main burner.
4. With the main burner in operation, apply an approved leak test solution to all tubing and pipe connections (including adapters) and the valve inlet and outlet. Bubbles indicate a leak.
5. If a leak is detected, tighten pipe connections (including adapters) according to "Gas Connections" (page 5).

▲ WARNING

Do NOT use if leakage is detected. There is a danger of fire or explosion depending on conditions.

WIRING

(See figures 16–20, pages 8–12)

Connect all components according to the appropriate wiring diagram.

NOTICE

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

- When GV60 components are installed, make sure they are not exposed to dirt, oil, grease or other chemical agents.
- Do not permit foreign particles under plastic cover.
- Place ON/OFF switch (if equipped) where it is easily accessible for the user.

Thermocouple Circuit

Total resistance of thermocouple circuit should be minimized to ensure proper operation.

NOTICE

The use of the Mertik Maxitrol interrupter block is recommended. Keep connection of interrupter block and thermocouple clean and dry. Avoid excessive bending of the thermocouple tubing during installation (min. 1" radius; 2.5 cm) as this can cause it to fail.



Figure 10



Figure 11



Figure 12

1. Tighten brass interrupter block into valve ¼ turn beyond finger tight. If necessary, an additional ¼ turn is possible.

CAUTION: Further tightening will damage the plastic sleeve in the brass interrupter block and can cause a short in the circuit.

NOTE: Do not over-torque or under-torque the interrupter block to achieve a specific slot alignment.

2. Slide spade connectors into plastic insert (see figure 10).
3. Slide plastic insert with spade connectors into the brass interrupter block until it snaps (see figure 11).
4. While holding the interrupter block with a wrench, thread the thermocouple into the female end of the interrupter block ¼ – ½ turn beyond finger tight (see figure 12).

Ignition Cable

NOTICE

Do not damage the ignition cable while attaching it to the ignition electrode. When the cable is in place, avoid contact with sharp objects or edges. With cables longer than 900 mm, avoid contact with metal parts, as this could decrease spark.

Receiver

NOTICE

To keep the receiver free from debris, dirt, and humidity, do not remove the receiver from the plastic bag until all construction is complete.

1. Insert batteries or connect AC mains power. The module for circulating fan and light/dimmer includes a mains adapter. With mains adapter, batteries can be used for backup.
2. Place ON/OFF switch (if equipped) to ON position.
3. The receiver has to learn the handset code:
Press and hold the receiver's reset button (see figure 15, page 7) until you hear two (2) beeps. After the second, longer beep, release the reset button. Within the subsequent 20 seconds press the (V) button on the handset. Two (2) short beeps confirm the code is set. "E000" is displayed on the handset showing the synchronization (see figure 13). After successful

synchronization current state of gas fire is displayed in the handset.

NOTE: This is a one time setting only, and it is not required after changing the batteries in the handset or receiver. When the RF receiver is placed in the appliance, the surrounding metal can reduce reception considerably.

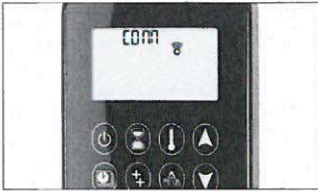


Figure 13: Synchronization in process

V Module

1. Use Power cord, Fan and Light with Molex connector according to wiring diagram (see figure 17, page 9) or connect wires with core cable ends to the pluggable screw terminals.
2. Connect the Light and the Fan first and then the power supply. An LED indicates that power is on.

NOTE: Take care that unused outlets are protected from contact.

myfire Wi-Fi Box

NOTICE

The myfire Wi-Fi Box is part of the GV60/Symax/myfire® system. It allows communication with a Home Network (WLAN Router) over a wireless signal. A Symax handset must be used to achieve full functionality.

1. myfire Wi-Fi Box must be wired according to the myfire setup diagram (see figure 20, page 12).
2. myfire Wi-Fi-Box must be connected to the receiver; connect receiver to mains power. After 30 seconds the myfire Wi-Fi Box goes into Access Point Mode (green LED flashes). Go to "myfire App Setup" on page 15 to configure the Wi-Fi settings for the house net.

NOTICE

Multiple users on the same Wi-Fi channel may interfere with the data transfer. Press reset button on the Wi-Fi Box for 1 second to change current channel.

NOTICE

If myfire Wi-Fi Box is not connected to the receiver or is not used, it will leave the Access Point Mode (AP Mode) after 24 hours.

Minimum requirement WLAN Router:

- Compatible with IEEE 802.11n/g/b
- WPA2 encryption
- Radio frequency: 2,4 GHz band
- Wireless auto channel: Automated search for wireless LAN radio channel free of interference

Minimum requirement smart device:

- IOS 8.0 or Android 4.4

LED indication on myfire Wi-Fi Box (see figure 14):

Label	LED		Status
Power	Blue	On	Power on
		Off	Power off
WLAN	Green	On	Connected to Home Network
		Off	Not connected to Home Network
		Flashing	Myfire Wi-Fi Box in Access Point Mode
Receiver	Blue	On	Receiver connected
		Off	No Receiver connected or connection lost
All LEDs		Flashing	Internal configuration



Figure 14: LED on myfire Wi-Fi Box

Reset Status on myfire Wi-Fi Box:

Press Reset Button	LED status Blue Power LED	Function
1 sec	Continuously flashes every ½ sec	Activates AP Mode for 10 min (time to connect myfire Wi-Fi Box to Home Network (WLAN Router). Simultaneously the Wi-Fi channel changes.
5 secs	Two rapid flashes every 1 sec	System reset
10 secs	Flashes every 100 ms (continuously)	Restores factory firmware (myfire Wi-Fi Box will set to default after reboot); takes up to 2 min
20 secs	Flashes every 50 ms (continuously)	Restores factory firmware and erases all data not locked (Wi-Fi chip will set to default after reboot); takes up to 2 min

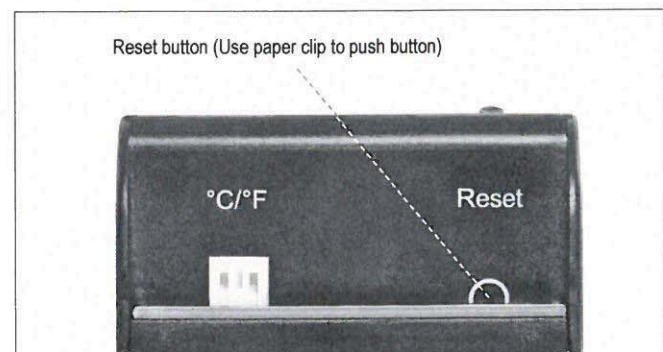
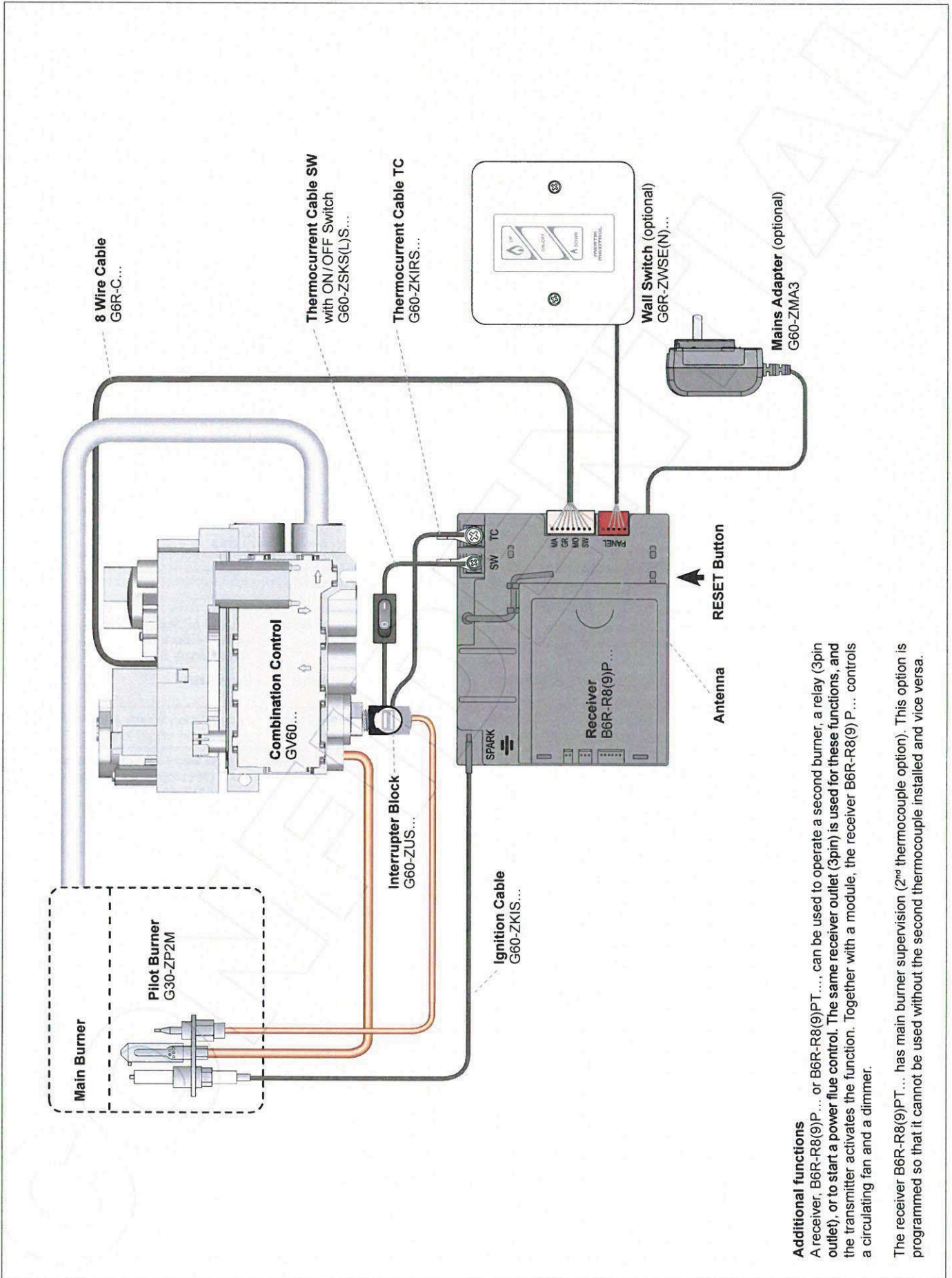


Figure 15: Reset Button myfire Wi-Fi Box

BASIC



Additional functions

A receiver, B6R-R8(9)P... or B6R-R8(9)PT... can be used to operate a second burner, a relay (3pin outlet), or to start a power flue control. The same receiver outlet (3pin) is used for these functions, and the transmitter activates the function. Together with a module, the receiver B6R-R8(9) P... controls a circulating fan and a dimmer.

The receiver B6R-R8(9)PT... has main burner supervision (2nd thermocouple option). This option is programmed so that it cannot be used without the second thermocouple installed and vice versa.

Figure 16

ADDITIONAL FUNCTION: FAN – LIGHT /DIMMER – LATCHING SOLENOID

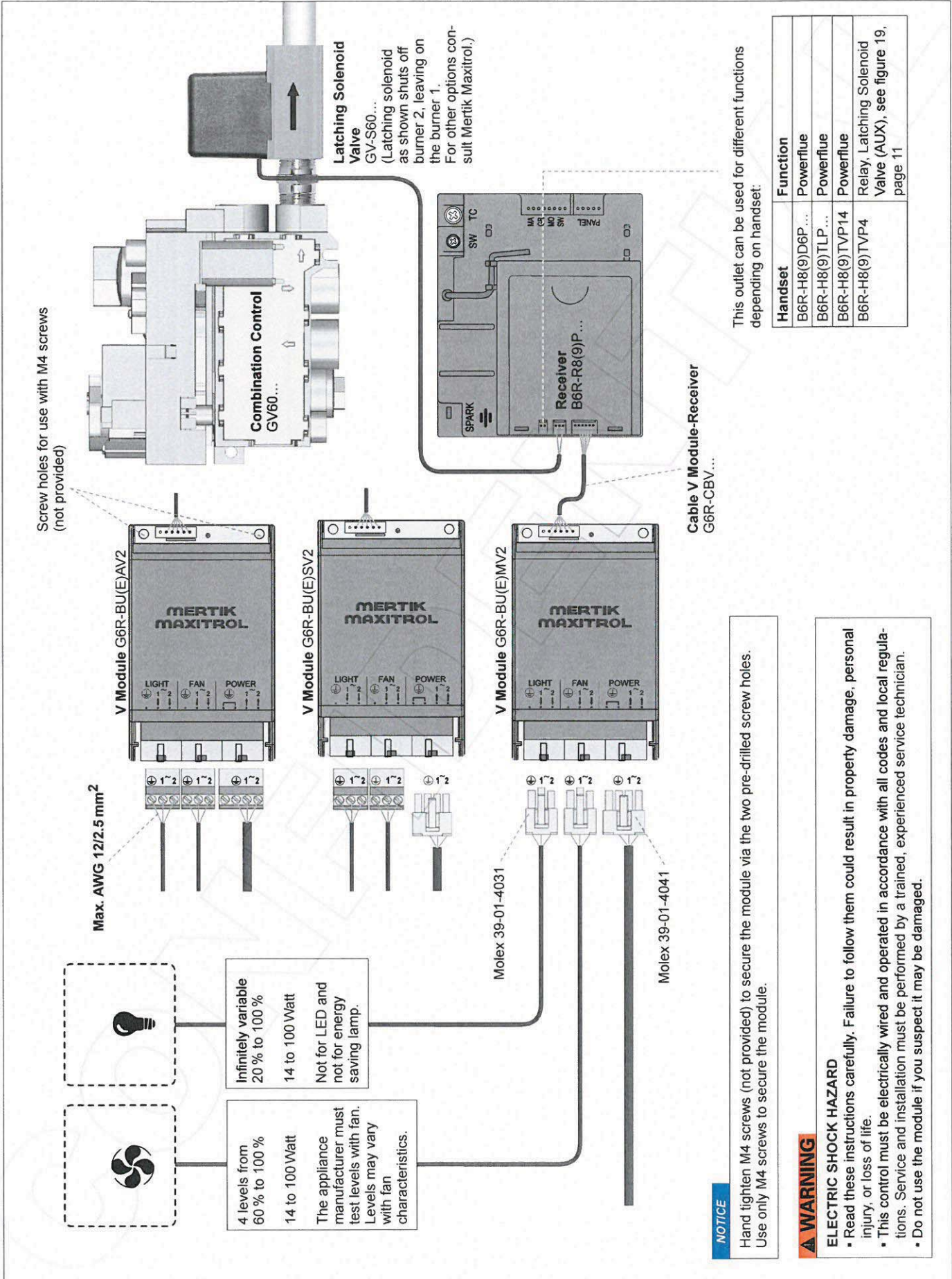
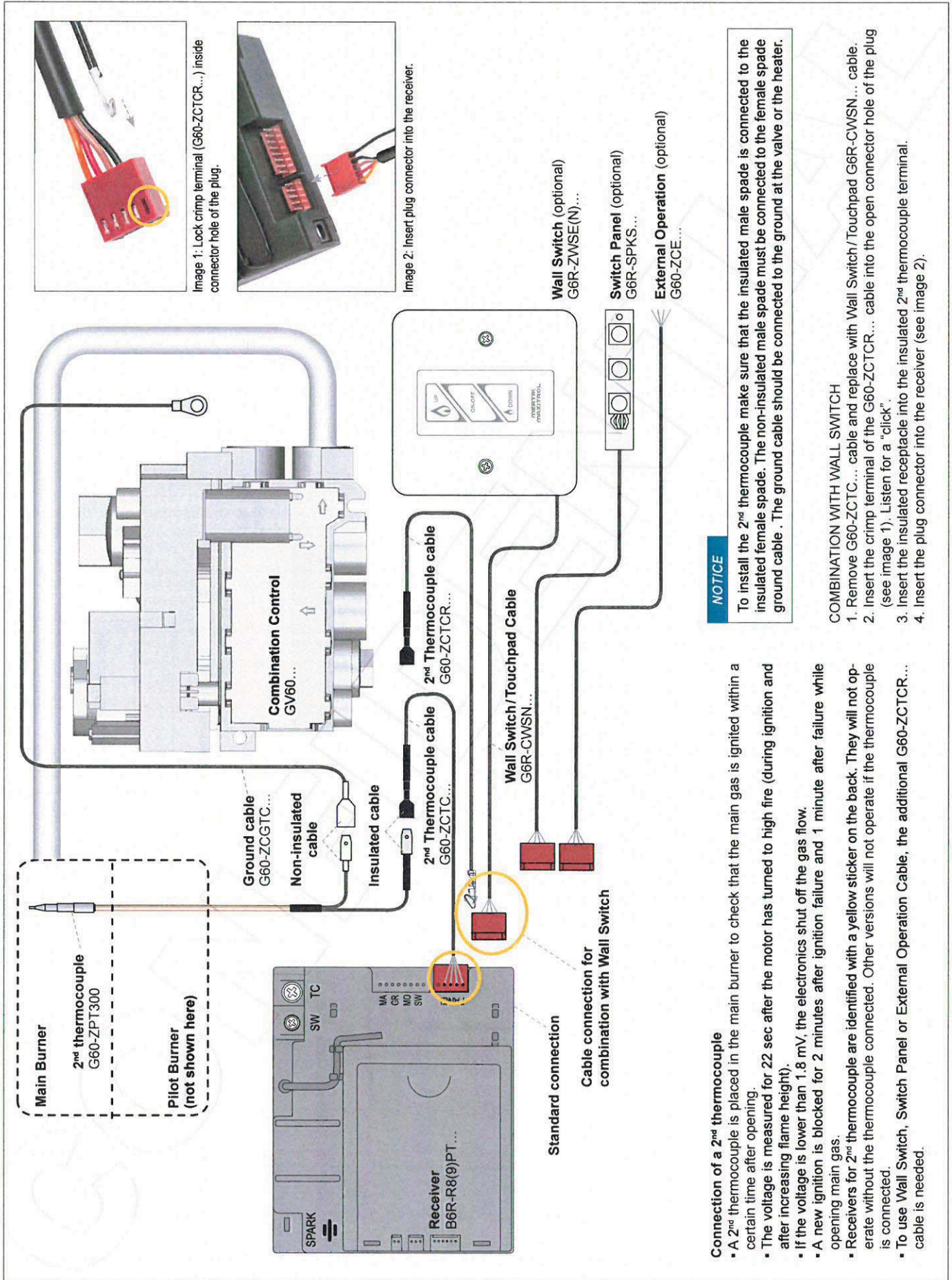


Figure 17

2nd THERMOCOUPLE OPTION



NOTICE

To install the 2nd thermocouple make sure that the insulated male spade is connected to the insulated female spade. The non-insulated male spade must be connected to the female spade ground cable. The ground cable should be connected to the ground at the valve or the heater.

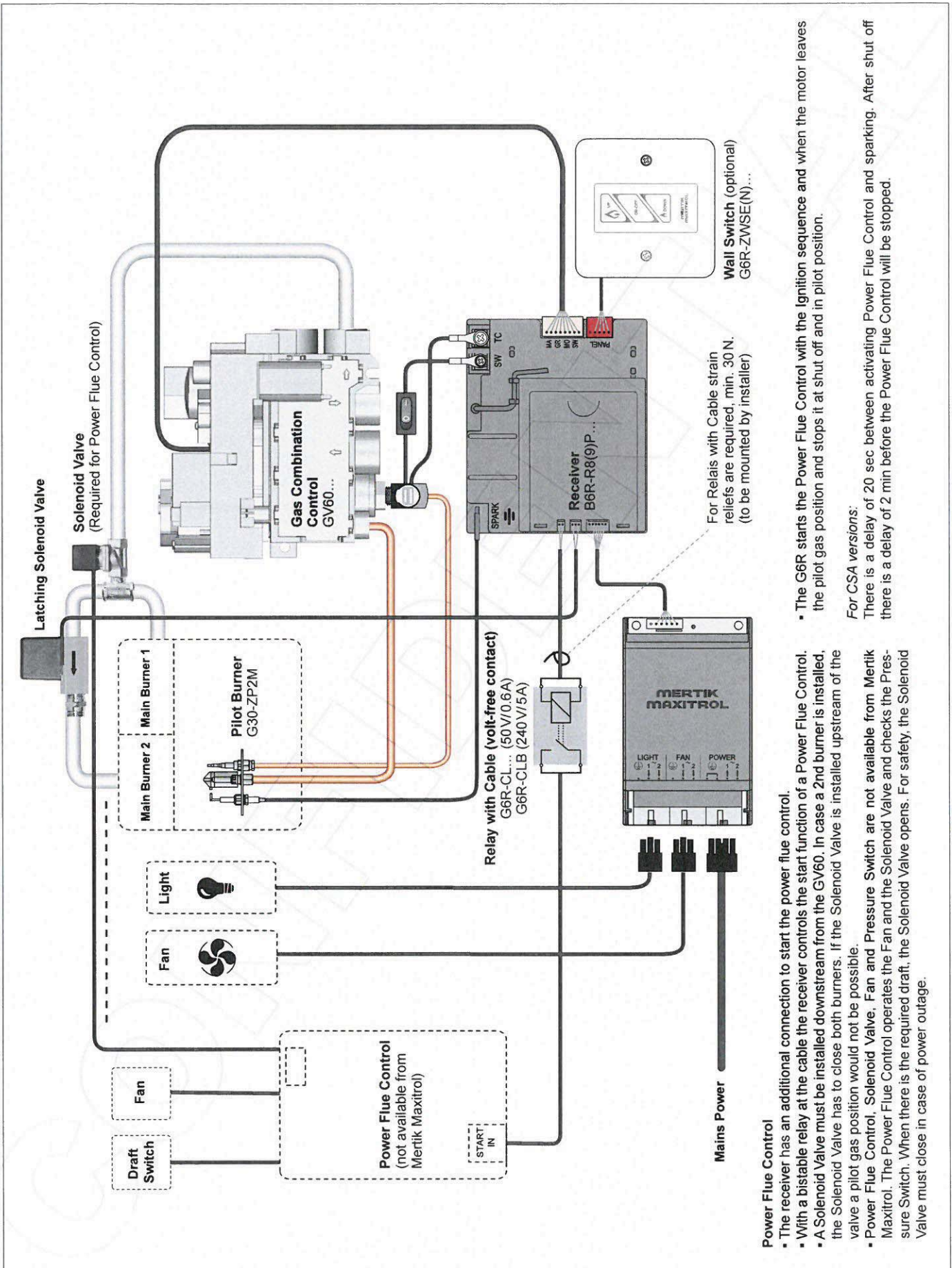
- Connection of a 2nd thermocouple**
- A 2nd thermocouple is placed in the main burner to check that the main gas is ignited within a certain time after opening.
 - The voltage is measured for 22 sec after the motor has turned to high fire (during ignition and after increasing flame height).
 - If the voltage is lower than 1.8 mV, the electronics shut off the gas flow.
 - A new ignition is blocked for 2 minutes after ignition failure and 1 minute after failure while opening main gas.
 - Receivers for 2nd thermocouple are identified with a yellow sticker on the back. They will not operate without the thermocouple connected. Other versions will not operate if the thermocouple is connected.
 - To use Wall Switch, Switch Panel or External Operation Cable, the additional G60-ZCTCR... cable is needed.

COMBINATION WITH WALL SWITCH

1. Remove G60-ZCTC... cable and replace with Wall Switch/Touchpad G6R-CWSN... cable.
2. Insert the crimp terminal of the G60-ZCTCR... cable into the open connector hole of the plug (see image 1). Listen for a "click".
3. Insert the insulated receptacle into the insulated 2nd thermocouple terminal.
4. Insert the plug connector into the receiver (see image 2).

Figure 18

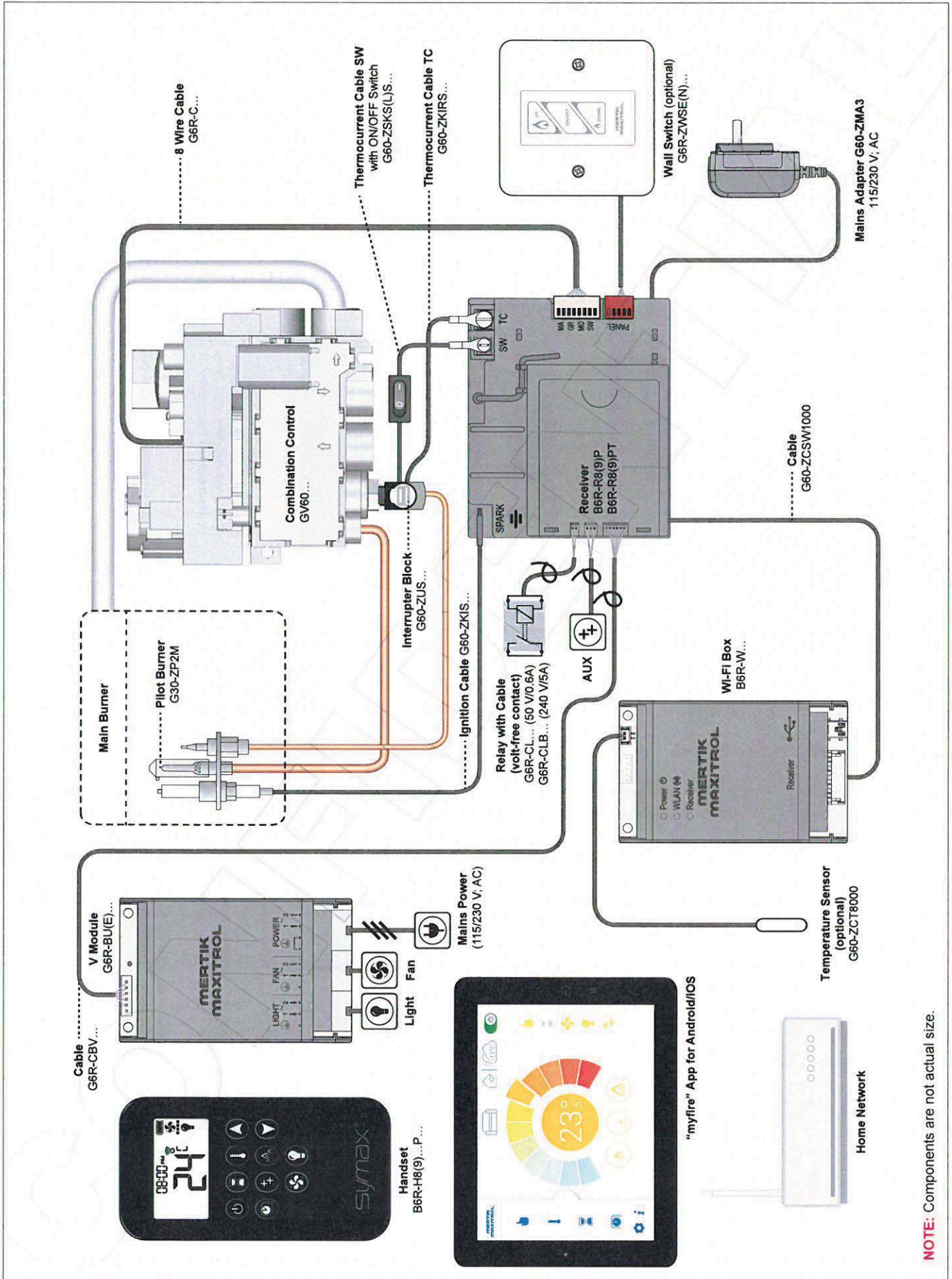
RECEIVER FOR POWER FLUE CONTROL, FAN, LIGHT / DIMMER, LATCHING SOLENOID, AUX (VOLT-FREE CONTACT)



- Power Flue Control**
- The receiver has an additional connection to start the power flue control.
 - With a bistable relay at the cable the receiver controls the start function of a Power Flue Control.
 - A Solenoid Valve must be installed downstream from the GV60. In case a 2nd burner is installed, the Solenoid Valve has to close both burners. If the Solenoid Valve is installed upstream of the valve a pilot gas position would not be possible.
 - Power Flue Control, Solenoid Valve, Fan and Pressure Switch are not available from Mertik Maxitrol. The Power Flue Control operates the Fan and the Solenoid Valve and checks the Pressure Switch. When there is the required draft, the Solenoid Valve opens. For safety, the Solenoid Valve must close in case of power outage.
- For CSA versions:**
There is a delay of 20 sec between activating Power Flue Control and sparking. After shut off there is a delay of 2 min before the Power Flue Control will be stopped.
- The G6R starts the Power Flue Control with the Ignition sequence and when the motor leaves the pilot gas position and stops it at shut off and in pilot position.

Figure 19

MYFIRE® APP SETUP



NOTE: Components are not actual size.

Figure 20

KNOB SETTINGS

Knob function as follows (see figure 21):

KNOB	POSITION	FUNCTION
Main valve knob	OFF	Prevents main gas flow through valve.
Main valve knob	ON	Permits main gas flow through valve if the pilot is lit and thermocouple is generating sufficient power.
Manual knob	MAN	Allows the pilot to be manually ignited and prevents main gas flow.
Manual knob	ON	Allows for automatic ignition.

ADJUSTMENT

▲ WARNING

It is the appliance manufacturer's responsibility to determine GV60's suitability for a specific application.

▲ WARNING

Do not attempt to remove screws from the top of gas valve. Do not change any adjustments marked with tamper indicating paint. Motor knob is not to be removed.

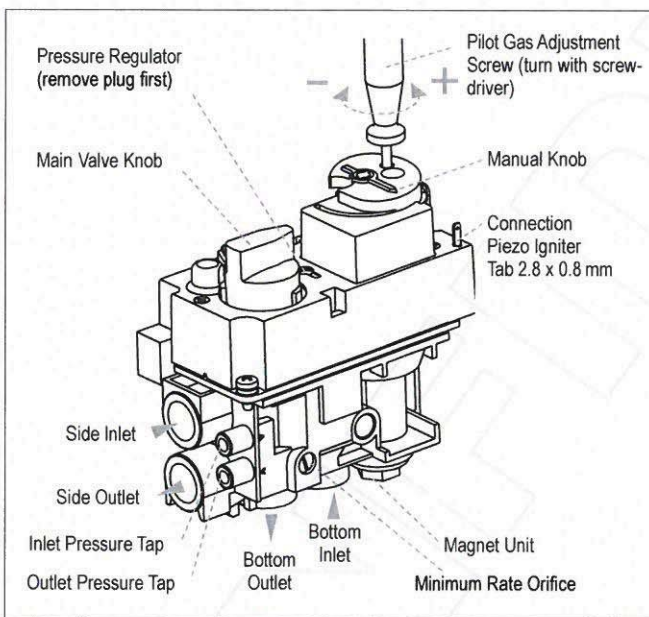


Figure 21: GV60, Connections and Adjustment Options

Pilot Flame Adjustment
(Vented Units Only)

The pilot flow adjustment is preset to maximum at the factory. The pilot flame should envelope 3/8" to 1/2" of the thermocouple (see figure 22).

1. The adjustment screw can be reached through a hole in the **MANUAL** knob (see figure 21).
2. Turn the **MANUAL** knob to the **ON** position.
3. It is now possible to pierce through a film on the cover with a screwdriver to reach the adjustment screw beneath.
4. Turn the adjustment screw clockwise ↻ to decrease or counterclockwise ↻ to increase pilot flame.

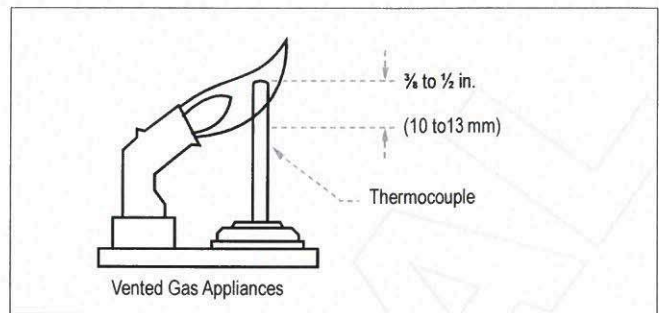


Figure 22: Proper Flame Impingement on Thermocouple

Outlet Pressure Adjustment
(Vented Units Only)

STANDARD REGULATOR OR THROTTLE
(Throttle CE Only)

1. Connect a pressure manometer to the valve outlet pressure tap. Pressure tap is opened by turning the screw counterclockwise ↻.
- Pressure regulator or throttle are located under the cover and can be reached by removing the plug (see figures 21 and 23).
2. Turn **MANUAL** knob and main valve knob to the **ON** position.
3. Turn pressure regulator adjustment screw to set required burner pressure (high fire). Pressure is increased by turning clockwise ↻ (pressure regulator models), or decreased by turning counterclockwise ↻.

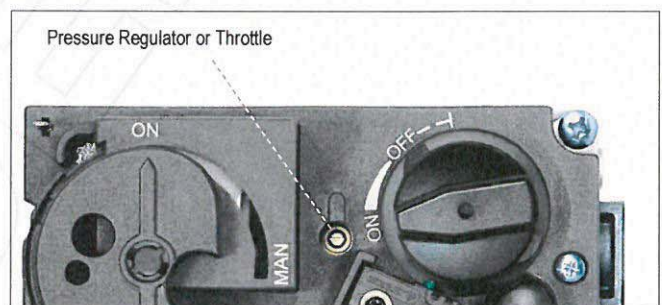


Figure 23: Combination Control GV60, Cover

NOTE: Throttle model's pressure is increased by turning counterclockwise ↻; or decreased by turning clockwise ↻.

4. After adjustment, replace the plug.
5. If no other adjustments are required, close pressure tap(s) by turning the screw(s) full clockwise ↻. Check all connections/pressure tap(s) for leaks.
6. If the desired outlet pressure or flow cannot be achieved by adjusting the gas valve, check the gas valve inlet pressure using a manometer at the valve inlet pressure tap. If the inlet pressure is in the normal range, replace the gas valve; otherwise, take necessary steps to assure proper gas pressure to the valve.

CONVERTIBLE PRESSURE REGULATOR
(CSA Only; Optional)

Convertible regulators are designed to deliver either of two fixed outlet pressures for Natural Gas (NG) or LP Gas. To change from one gas to the other, turn the conversion plug (see figure 24, page 14) counter clockwise to remove. Unsnap and remove the plastic part, rotate it 180°, and then slide it back on the conversion plug until it snaps. Turn the conversion plug clockwise until it bottoms out.

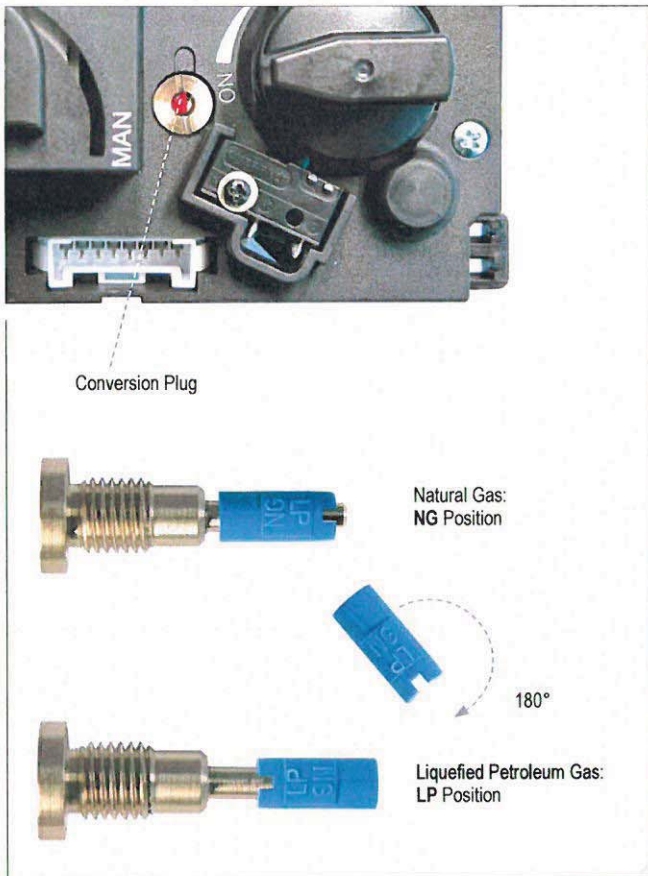


Figure 24: Conversion from one gas to another

Minimum Gas Flow Adjustment
(Vented Units Only)

1. Set the control into low fire setting by turning the motor knob to **OFF** position and back until the valve opens.
2. The minimum rate can be set either by screwing in a calibrated minimum rate screw (fixed orifice) or an adjustable minimum rate screw. Controls with adjustable screws without a customer specific setting are factory set at maximum flow.
3. Turn the screw clockwise ↻ to decrease the minimum flow.
4. Care should be taken to screw the fixed orifice until it stops.
5. Close pressure tap(s) by turning the screw(s) full clockwise ↻. Check all connections/pressure tap(s) for leaks.

Changing the Fuel Type
(Vented Units Only; see page 13 for “Convertible Pressure Regulators”)

GV60 can be converted to meet the manufacturer’s requirements for a specific gas type. Adjustments of pressure regulator, minimum rate and pilot gas are according to above-mentioned instructions. To convert for LPG CE it is necessary to block the pressure regulator by turning the regulator adjustment screw fully to the bottom limit (or the throttle adjustment screw fully to the upper limit).

FINAL CHECK

Observe several complete ON/OFF cycles to ensure proper operation. During these cycles the electronics will determine the optimum ignition sequence timing.

1. **STOP!** Read the safety information included before proceeding.
2. Turn main valve knob to the **OFF**, full clockwise ↻ position.

3. Place ON/OFF switch (if equipped) to the **O** (OFF) position.
4. Wait a minimum of 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 (page 2).** If no gas is present, proceed according to the Mertik Maxitrol Operating Instructions.

⚠ WARNING

Fire or Explosion Hazard. Attempted disassembly or repair can cause property damage, severe injury or death. Do not disassemble the gas valve; it contains no serviceable components.

OPERATING INSTRUCTIONS

GENERAL NOTES

NOTICE

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

Batteries – Handset

- Low battery indicator on handsets.



Batteries – Receiver

- Low battery indication: frequent beeps for 3 seconds when motor turns.
- An AC mains adapter may be used instead of batteries.
- 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.



⚠ WARNING

- 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.
- 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.

Software Version

Press  and  buttons simultaneously. Software version is displayed.

Handset Model Number

Press  and  buttons simultaneously. Handset model number is displayed.

Deactivate Functions

1. Install batteries. All icons are displayed and flashing.
2. While the icons are flashing, press the relevant function button and hold for 10 sec.
3. The function icon will flash until deactivation is complete. Deactivation is complete when the function icon and two horizontal bars are displayed.

NOTE: If a deactivated button is pressed, there is no function, and two horizontal bars are displayed.

NOTE: Deactivation remains in effect after change of batteries.

Activate Functions

1. Install batteries. All icons are displayed and flashing.
2. To activate a function, press the relevant button and hold for 10 sec.
3. The function icon will continue to flash until activation is complete. Activation is complete when the function icon is displayed.

The following Functions can be Deactivated/Activated

- CHILD PROOF
- PROGRAM MODE
- THERMOSTATIC MODE (also deactivates PROGRAM MODE)
- ECO MODE

- LIGHT/DIMMER OPERATION
- CIRCULATING FAN OPERATION
- AUXILIARY FEATURE
- COUNTDOWN TIMER

SETTING THE ELECTRONIC CODE

(First time use only.)

Radio Frequency Handset

A code is selected automatically for all Mertik Maxitrol electronics from among 65,000 codes available. The receiver must be paired with the handset (see instructions on page 6).

MYFIRE® APP SETUP

NOTICE

An APP-enabled Smart Device is required to set up myfire® App.

INITIAL SETUP

1. Download app from Google Play Store or Apple App Store.
2. Start app (welcome screen).
3. Select language. Touch "Next" button.
4. Select temperature scale and time format. Touch "Next" button.
5. Touch "Start installation" button.
6. Graphics for installing components correctly. Touch "Continue" button.
7. Register (one time only):
 - a) Touch "Register" button.
 - b) Fill in data and accept "Privacy Policy".
 - c) Go to email box. Click on link in confirmation e-mail to confirm registration. Touch "Register" button.
8. Login:
 - a) Fill in data and accept "Terms and Conditions". Touch "Login" button.
 - b) Login successful. Touch "OK" button.
9. Add new myfire Wi-Fi Box:

Touch "+" icon. Go to smart device Wi-Fi-settings. Connect smart device to myfire Wi-Fi Box with the name "myfire_WiFi-Box_<number>". Enter the password "MYFIREPLACE". Go back to App. Touch "OK" button.
10. Connect myfire Wi-Fi Box to your House Wi-Fi box. Fill in data. Touch "Connect" button.
11. Myfire Wi-Fi Box is connecting to House Wi-Fi box/Home Network. When the connection is established the Myfire Wi-Fi Box leaves the Access Point Mode.

NOTICE

Make sure that the smart device is connected to the Home Network.

12. List of connected myfire Wi-Fi Box(es) displayed. Touch individual myfire Wi-Fi Box to go to settings.
 - Blue Checkmark: Setup complete. Touch "Start App" button.
 - Green arrow: updates available. When updates are available, progress will be visible and must not be interrupted.
 - Yellow arrow: setup incomplete. Fill in fireplace settings and touch "Finish" button.
 - Exclamation mark: not compatible. Myfire Wi-Fi Box can't be connected.
13. The app is ready to go and homescreen appears.
14. For further information press the "i" icon on the bottom of the menu.



Figure 25: App connected (in Thermostatic Mode)

NOTICE

The device (handset or smart device) most recently used or connected is the active device. Only when changing Light and/or Fan on the handset, the smart device (App) will remain the active device.

NOTICE

If Thermostatic, Program or Eco Mode is activated, the corresponding icon and "RPP" is displayed on the handset (see figure 25).

NOTICE

Handset and myfire® App are synchronized every 4 to 60 min. When myfire app is in use, touching the handset causes an immediate synchronization. Temperature data is transferred during synchronization.

NOTICE

Handset and myfire® App are synchronized every 4 to 60 min. When myfire app is in use, touching the handset causes an immediate synchronization. If no temperature cable with sensor is installed, the room temperature data is transferred by the handset during synchronization.