

**ENGLISH****GV60 Remote Electronic Ignition and Control System**
Installation and Operating Instructions

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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 AGAAS 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.

GV60 COMBINATION GAS CONTROL SYSTEM

DESCRIPTION

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

COMPONENTS

Standard RF handset
G6R-H3S...
G6R-H4S...

Display RF handset
G6R-H3D...
G6R-H4D...

Timer/Thermostat RF handset
G6R-H3T...
G6R-H4T...

Wall Switch EU
G6R-ZWSE...
with integrated Touchpad G6R-TPN...

Wall Switch US
G6R-ZWSN......

Wall Switch/
Touchpad Cable
G6R-CWSN...

Switch Panel
with cable
G6R-SPKS/1000

Figure 1: Handsets

Figure 2: Operation

Combination Gas Control
GV60...

Standard Receiver
G6R-R3(4)AM... or
Universal Receiver
G6R-R3(4)AU...

Battery Box
G60-ZB(S)90...

Ignition Cable
G60-ZKIS...

8 Wire Cable
Combination Gas Control –
Receiver G6R-C...

Relay with Cable (optional)
G6R-CD...

Interrupter Block
G60-ZUSV...

Thermocouple
G60-ZPT600A
G60-ZPT1500A

Pilot Burner
G30-ZP2M-L
(Europe only)

Thermocurrent Cable
Interrupter Block – Receiver TC
G60-ZKIRS...

Thermocurrent Cable, Interrupter Block – Receiver SW
with ON/OFF Switch
G60-ZSKS(L)S...
or
without ON/OFF Switch
G60-ZKIRSWS...

Figure 3: Basic

Latching Solenoid Valve (with cable)
GV-S60B(C)...(-E)

V Module
G6R-BU(E)...

Cable V Module – Receiver
G6R-CBV...

Figure 4: Additional Function RF: FAN – Light/Dimmer – Latching Solenoid

Mains Adapter G60-
ZMA3 with connec-
tions for EU, UK, US

(G60-ZPAU for AU
and NZ)

Receiver
G6R-R3(4)AUT

Ground Wire
G60-ZCGTC/2000

2nd Thermocouple Cable
G60-ZCTC/2000

2nd Thermocouple G60-ZPT...

Figure 5: Mains Adapter

Figure 6: RF 2nd Thermocouple Option

Infrared handset
G6R-HIO...

Infrared Receiver
G6R-RIAE

Infrared Sensor
G6R-IRC

Cable with Relay
G6R-CL..., G6R-CD... (optional)

Figure 7: Infrared (IR)

TECHNICAL DATA**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 Regulation 2016/426/EU and DIN EN 298, DIN EN 126, DIN EN 13611, 2014/53/EU (RED)
 AGA: AS 4624; Rules Governing

FUEL GASES

CSA: Suitable for gases, liquefied petroleum gases, and LP gas-air mixtures.
 CE: Suitable for gases according to EN 437
 AGA: Natural gas (NG), simulated natural gas (SNG), town gas (TG), liquefied petroleum gases (LPG)

PRESSURE DROP/CAPACITY

CSA: @ 1" w.c. at 65,000 BTU/hr for 0.65 s.g. natural gas
 CE, AGA: 2.5 mbar (0.25 kPa) at 1.2 m³/h air

RANGE OF REGULATION

CSA: 10,000 to 85,000 BTU/hr
 CE: Class C according EN 88
 AGA: Type B Class 3 Grade 20

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

MAXIMUM INLET PRESSURE

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

MAIN GAS CONNECTION

CSA: ¾ NPT (ANSI/ASME B1.20.1)
 CE, AGA: 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, AGA: 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, AGA: 35 Nm
- LATCHING SOLENOID 8 mm tube
CE, AGA: 20 Nm
- PILOT GAS CONNECTION
CSA: 100 inch-pounds
CE, AGA: 15 Nm

THERMOCOUPLE/INTERRUPTER BLOCK

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

AMBIENT TEMPERATURE RANGE

CSA:
 Combination Gas Control: 32 °F to 176 °F
 Latching Solenoid Valve: 32 °F to 176 °F
 Misc. cables: 221 °F
 Relay with Cable: 158 °F
 Infrared Sensor: 176 °F

CE, AGA:

Combination Gas Control: 0 °C to 80 °C
 Latching Solenoid Valve: 0 °C to 80 °C
 Misc. cables: 105 °C
 Relay with Cable: 70 °C
 Infrared Sensor: 80 °C

⚠ WARNING

It is the appliance manufacturer's responsibility to determine that the equipment, components, and accessories are operating within their ambient temperature limits. Suppliers and/or materials for components and accessories may change from time to time.

POWER CONSUMPTION

See document "GV60-DS-EN..PCG" at <https://www.maxitrol.com/literatur-downloads> under "GV Series Gas Control Systems".

GENERAL RADIO FREQUENCY INFORMATION

Amendment: This device complies with Part 15 of the FCC Rules. The device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
 (1) This device may not cause interference.
 (2) This device must accept any interference, including interference that may cause undesired operation of the device. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. To satisfy ISSED exposure requirements a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during operation. To ensure compliance, operations at closer distances than this are not recommended.

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 according to 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.

Compliant with the EU-Radio Equipment Directive 2014/53/EU (RED).

▲ WARNING

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

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

1. Turn OFF gas supply at the appliance service control 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 control (see figure 8, page 5).
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.

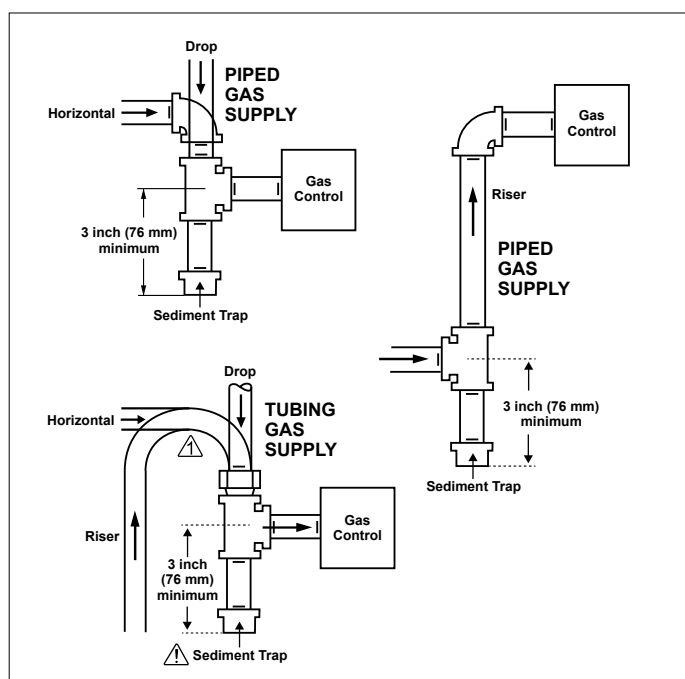


Figure 8: Sediment Trap (where required)

MOUNTING POSITION

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

LOCATION

Locate the combination gas control 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 control in a well-ventilated area.
- Mount combination gas control 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.

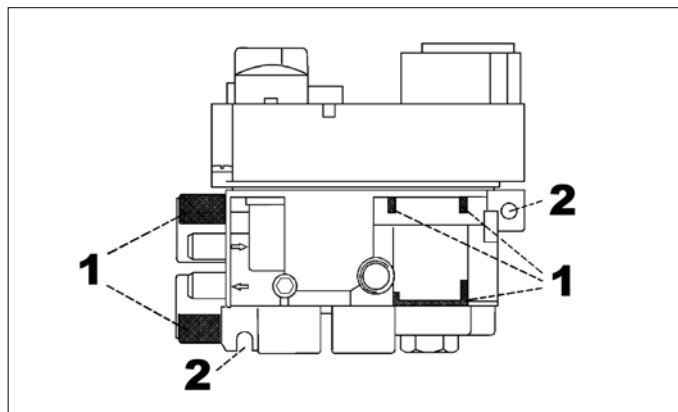


Figure 9: 1 = Clamp Areas, 2 = Mounting Points

GAS CONNECTIONS

▲ WARNING

Fire or Explosion Hazard. Can cause property damage, severe injury, or death. Do NOT bend tubing at control 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 control must be held at the designated clamping points (see figure 9).

▲ WARNING

Do not overtighten connections. Overtightening can damage the control body resulting in a leak or a control malfunction. (see Maximum allowed torque on page 4)

Main Gas (Tubing Connections)

1. Do not use pipe joint compound. 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.

Main Gas (Pipe Connections)

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

Pilot Gas (Tubing Connections)

1. Do not use pipe joint compound. 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 gas tight seal.
5. Connect other end of tubing to pilot burner.

⚠ WARNING

The combination gas controls 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 must be isolated from the gas supply.

PERFORM GAS LEAK TEST

1. Check carefully for gas leaks immediately after the control 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 control inlet and outlet. Bubbles indicate a leak.
5. If a leak is detected, tighten pipe connections (including adapters) according to "GAS CONNECTIONS" (see page 5).

⚠ WARNING

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

WIRING

(see figures 23-27, pages 18-22)

Connect all components according to the appropriate wiring diagram.

- 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.

NOTICE

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

Ensure proper grounding of the combination gas control to an unpainted surface of the appliance (see ⊕ icon in figures 23-25, pages 18-20).

THERMOCOUPLE CIRCUIT

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

NOTICE

The use of the Maxitrol interrupter block is recommended. Keep connection of interrupter block and thermocouple clean and dry. Do NOT expose the thermocouple to pipe joint compound. Avoid excessive bending of the thermocouple tubing during installation (min. 1" radius; 2.5 cm) as this can cause it to fail.

1. Tighten brass interrupter block into control 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 will 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).



Figure 10



Figure 11



Figure 12

IGNITION CABLE

AMBIENT TEMPERATURE RANGE

CSA: 32 °F to 302 °F
CE, AGA: 0 °C to 150 °C

CAUTION: Damage and/or interference will occur to the GV electronic system if the ignition cable (high voltage) is not separated from other GV system wiring. Maxitrol recommends using a protective sleeve to further isolate the 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

AMBIENT TEMPERATURE RANGE

CSA: Receiver without internal batteries: 32 °F to 176 °F
Receiver with internal batteries: 32 °F to 131 °F
Receiver infrared with /without batteries: 32 °F to 131 °F
CE, AGA:
Receiver without internal batteries: 0 °C to 80 °C
Receiver with internal batteries: 0 °C to 55 °C
Receiver infrared with /without batteries: 0 °C to 55 °C

RADIO FREQUENCY

CSA: 918.0 MHz for U.S. (FCC), Canada (ISED), (handset, receiver)
CE: 868.1 MHz for Europe (handset, receiver)
AGA: 918.0 MHz for New Zealand (RNZ) and Australia (ACMA) (handset, receiver)
(see general radio frequency information on page 4.)

POWER SUPPLY

Internal power supply:

- 4 x AA Batteries, 1.5 V (quality alkaline recommended)

External power supply:

- Battery box G60-ZB(S)90... with 4 x AA Batteries, 1.5 V (quality alkaline recommended)
- G60-ZMA3 mains adapter (6 V DC/ 1A)
- V-module via 6-pin interface

⚠ WARNING

Only the Maxitrol approved cables and electronics can be plugged into the receiver connectors. Maxitrol assumes no liability in case of unauthorized use of the system and the warranty will be void.

NOTICE

- Only the Maxitrol AC mains adapter (see figure 5, page 3) or one preapproved by Maxitrol can be used. Use of other adapters can render the system inoperable.
- The antenna (see page 18) must not cross or come into contact with the ignition wire or any other cable. This will render the receiver inoperable.

Batteries

NOTICE

- Wiring of control and receiver must be completed before starting ignition. Failure to do so could damage the electronics.
- To keep the receiver free from debris, dirt, and humidity, do not remove the receiver from the plastic bag until all construction is complete.

⚠ WARNING

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

⚠ 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.
- 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.

- Low battery indication: frequent beeps for 3 seconds when motor turns.
- The V module for fan speed control and light/dimmer provides the receiver with power. The batteries in the receiver can be used for automatic backup in case of power outage.

Radio Frequency Receiver and Handset

A code is selected automatically for all Maxitrol electronics from among 65,000 codes available. The receiver must be paired with a handset.

SYNCHRONIZATION RECEIVER/HANDSET

(First time use only)

- Press and hold the receiver's reset button (see figure 13) 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 **⬇ (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.

NOTE: When the RF receiver is placed in the appliance, the surrounding metal can reduce reception considerably.

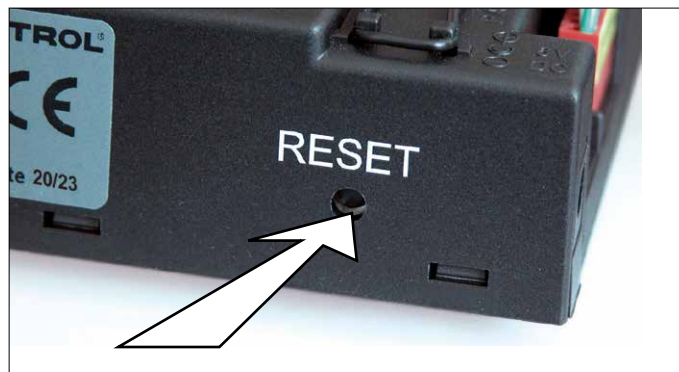


Figure 13: Receiver Reset Button

IR Versions

Place the infrared eye in a suitable position. The infrared signal transmission requires a line of sight.

NOTICE

The handsets and receivers are not interchangeable with previous G6R and Symax electronics.

V MODULE

POWER SUPPLY

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

AMBIENT TEMPERATURE RANGE

CSA:	176°F
CE, AGA:	80°C

Follow wiring diagram (see figure 24, page 19). Connect the Fan and Light first and then connect the power supply. An LED indicates the power is ON. Use Molex connectors or connect wires to screw terminals.

NOTICE

The antenna (see page 18) must not cross or come into contact with the ignition wire or any other cable. This will render the receiver inoperable.

KNOB SETTINGS

Gas control knobs function as follows (see figure 14):

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

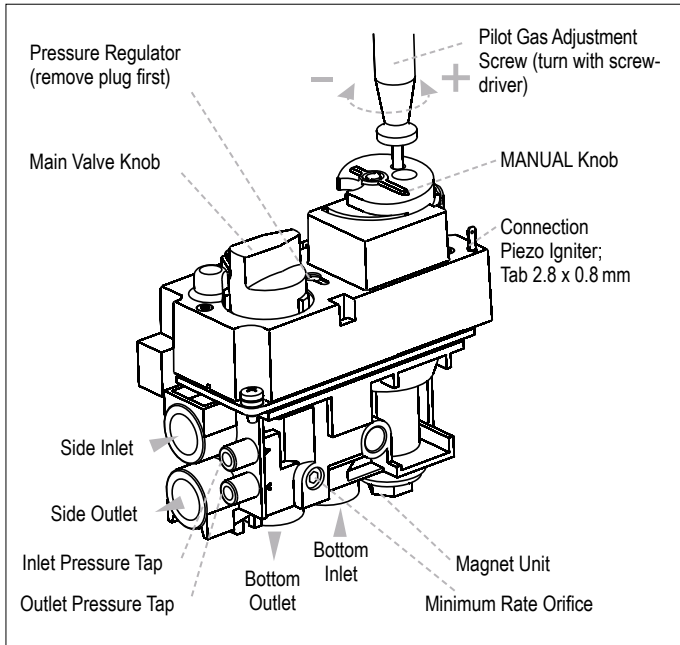


Figure 14: GV60, Connections and Adjustment Options

Pilot Flame Adjustment (Vented Units Only)

The pilot flow adjustment is preset to maximum at the factory. The pilot flame should envelope $\frac{3}{8}$ " to $\frac{1}{2}$ " of the thermocouple (see figure 15).

- The adjustment screw can be reached through a hole in the MANUAL knob (see figure 14).
- Turn the MANUAL knob to the **ON** position.
- It is now possible to pierce through a film on the cover with a screwdriver to reach the adjustment screw beneath.
- Turn the adjustment screw clockwise ⤵ to decrease or counterclockwise ⤴ to increase pilot flame.

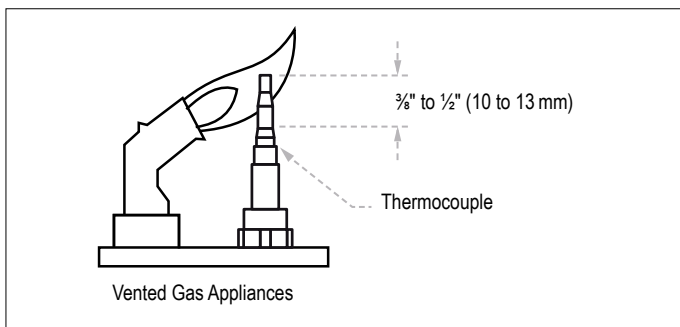


Figure 15: Proper Flame Impingement on Thermocouple

Outlet Pressure Adjustment (Vented Units Only)

Standard Regulator or Throttle
(Throttle CE Only)

- Connect a pressure manometer to the control 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 14 and 16).
- Turn MANUAL knob and main valve knob to the **ON** position.
- 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 ⤴.

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

- After adjustment, replace the plug.
- 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.
- If the desired outlet pressure or flow cannot be achieved by adjusting the control, check the control inlet pressure using a manometer at the control inlet pressure tap. If the inlet pressure is in the normal range, replace the control; otherwise, take necessary steps to assure proper gas pressure to the control.



Figure 16: Combination Gas Control GV60, Cover

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. Follow these steps if you want to change from one type of gas to another:

- Turn the conversion plug (see figure 17, page 9) counterclockwise ⤴ to remove.

NOTE: Unscrew only the Conversion Plug with a slotted screw driver. Do not adjust the smaller screw under the red tamper proof paint (see figure 17).

- Unsnap and remove the blue plastic part.
- Rotate the blue plastic part 180°.
- Slide plastic part back on the conversion plug until it snaps.
- Turn the conversion plug clockwise until it bottoms out.

Minimum Gas Flow Adjustment (Vented Units Only)

- Set the control into low fire setting by turning the motor knob to **OFF** position and back until the valve opens.
- 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 \curvearrowright 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 \curvearrowright . Check all connections/pressure tap(s) for leaks.

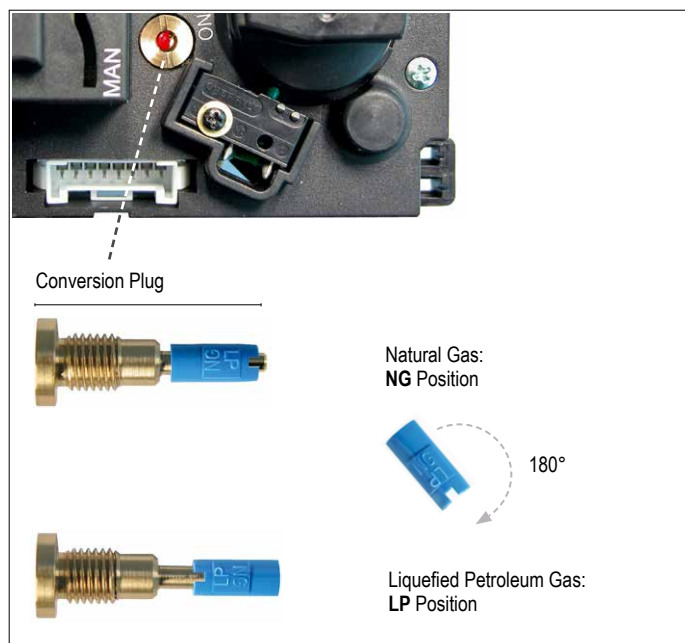


Figure 17: Conversion from one gas to another

Changing the Fuel Type

(Vented Units Only; see "Convertible Pressure Regulator")

GV60 can be converted to meet the manufacturer's requirements for a specific gas type. Adjustment of pressure regulator, minimum rate and pilot gas are according to the 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 \curvearrowright 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 (see page 2).** If no gas is present, proceed according to the Maxitrol Operating Instructions.

⚠ WARNING

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

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 \curvearrowright position.
3. Turn MANUAL knob to the **MAN**, full clockwise \curvearrowright 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 18, page 10).

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 control. 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 \curvearrowleft position.
11. Turn main valve knob to the full **ON**, full counterclockwise \curvearrowleft position.
12. If the appliance will not operate, follow the instructions "TO TURN OFF GAS TO APPLIANCE" (see page 10).



Figure 18: Combination Gas Control: Cover

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.

AUTOMATIC TURN DOWN TO PILOT (MOTOR ENDSTOP)

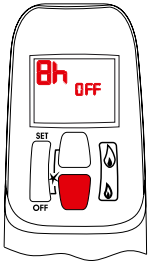
8 Hour No Motor Movement




(CSA Version)

The valve will turn to pilot flame if there is no motor movement for an 8 hour period. To deactivate or activate the 8 hour no motor movement turn down, the handset must be synchronized with the receiver and the receiver must be powered ON.

NOTE: 8-Hour No Motor Movement turn down is the default setting. Deactivation is only possible using the G6R display/thermostat handset.

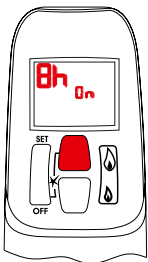
Deactivate 8 Hour No Motor Movement






1. Press and hold the  (**small flame**) button.
2. Install the battery in the handset while continuing to press and hold the  (**small flame**) button.
3. Continue to press and hold the  (**small flame**) button for 8 seconds.
4. During the 8 seconds, "8h" is displayed and the last set status (ON/OFF) will flash.
5. When deactivation is completed, "8h" and "OFF" will appear on the display for 4 seconds.
6. The receiver confirms deactivation with 3 short beeps.

NOTE: Deactivation remains in effect after changing the batteries in the receiver and handset.

Activate 8 Hour No Motor Movement



1. Press and hold the  (**large flame**) button.
2. Install the battery in the handset while continuing to press and hold the  (**large flame**) button.
3. Continue to press and hold the  (**large flame**) button for 8 seconds.
4. During the 8 seconds, "8h" is displayed and the last set status (**ON/OFF**) will flash.
5. When activation is completed, "8h" and "On" will appear on the display for 4 seconds.
6. The receiver confirms activation with 2 short beeps.

NOTE: Activation remains in effect after changing the batteries in the receiver and handset.

Receiver Overheating

(G6R-R3(4)AU(T) only)

The control turns the motor to pilot flame position if the receiver temperature is higher than 176 °F / 80 °C. If batteries are installed in the receiver the temperature must not exceed 131 °F / 55 °C.

NOTE: In Manual Mode the main burner can be turned back ON after the receiver temperature is below 131 °F / 55 °C (with batteries in receiver) or 176 °F / 80 °C (without batteries in receiver). In Thermostatic Mode, the main burner turns back ON automatically.

1 Hour Turn Down

(optional; requires specific handset)

The control will turn to pilot flame if there is no motor movement over a 1 hour period.

⚠ WARNING

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.

AUTOMATIC SHUT-OFF

Receiver Low Battery

Receiver low battery power will cause the fire to completely shut OFF (pilot and main burner).

NOTICE


Low receiver battery power is indicated by short beeps with each motor movement (0.1 seconds beep; 0.05 seconds pause).

On-Demand Pilot

- CSA: 7 Day Shut-Off
- CE, AGA: 5 Day Shut-Off
- This green feature eliminates gas energy consumption during extended appliance inactivity. The system automatically shuts off the fire completely (pilot and main burner) when the appliance is inactive (no motor movement) for an extended period of time. This feature helps the consumer realize cost benefits by automatically eliminating energy consumption during non-heating months and limited use.

2nd Thermocouple Shut-Off

(optional)

- The system shuts off the fire completely (pilot and main burner) if the main burner does not completely ignite approximately 20 seconds after ignition or after pushing  (**large flame**) button.

NOTE: Before the next ignition there is a 2-minute waiting period. If the thermocouple is then still too hot, you will hear a long beep.

RECEIVER SHUT-OFF/TURN DOWN

EU-Versions (CE)

G6R-R4AM (Standard)

- Turn down to pilot is not supported.
- 5-day Shut-Off (if no motor movement for 5 days).

G6R-R4AU (Universal)

- Turn down to pilot at 80 °C
- Turn down to pilot at 60 °C when batteries installed in the receiver.
- 5-day Shut-Off (if no motor movement for 5 days).

U.S. Versions (CSA)**G6R-R3AM (Standard)**

- Turn down to pilot is not supported.
- 7-day Shut-Off (If no motor movement for 7 days).

G6R-R3AU (Universal)

- Turn down to pilot at 176 °F.
- Turn down to pilot at 140 °F when batteries installed in the receiver.
- 7-day Shut-Off (if no motor movement for 7 days).
- 8 hour no motor movement turn down to pilot (if no motor movement for 8 hours).

TOUCHPAD/WALL SWITCH

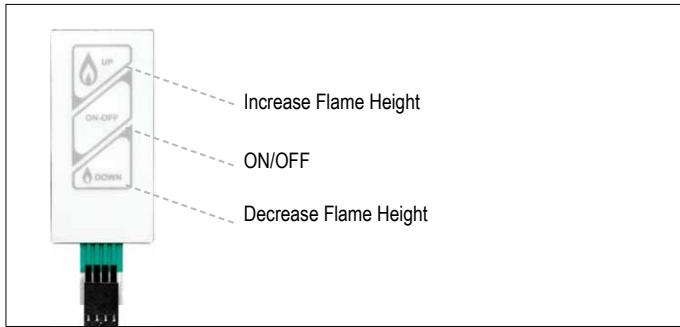


Figure 19: Touchpad/Wall Switch

SWITCH PANEL

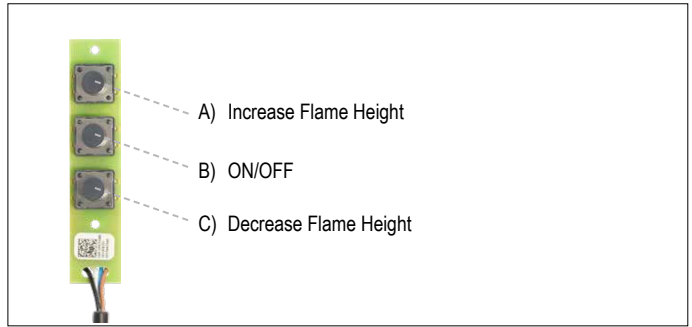


Figure 20: Switch Panel

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

Standby Mode (Pilot Flame)

- Press and hold **flame icon (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 **flame icon (small flame)** buttons to switch the decorative burner OFF.
- Simultaneously press **ON-OFF** and **flame icon (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.

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.

HANDSET

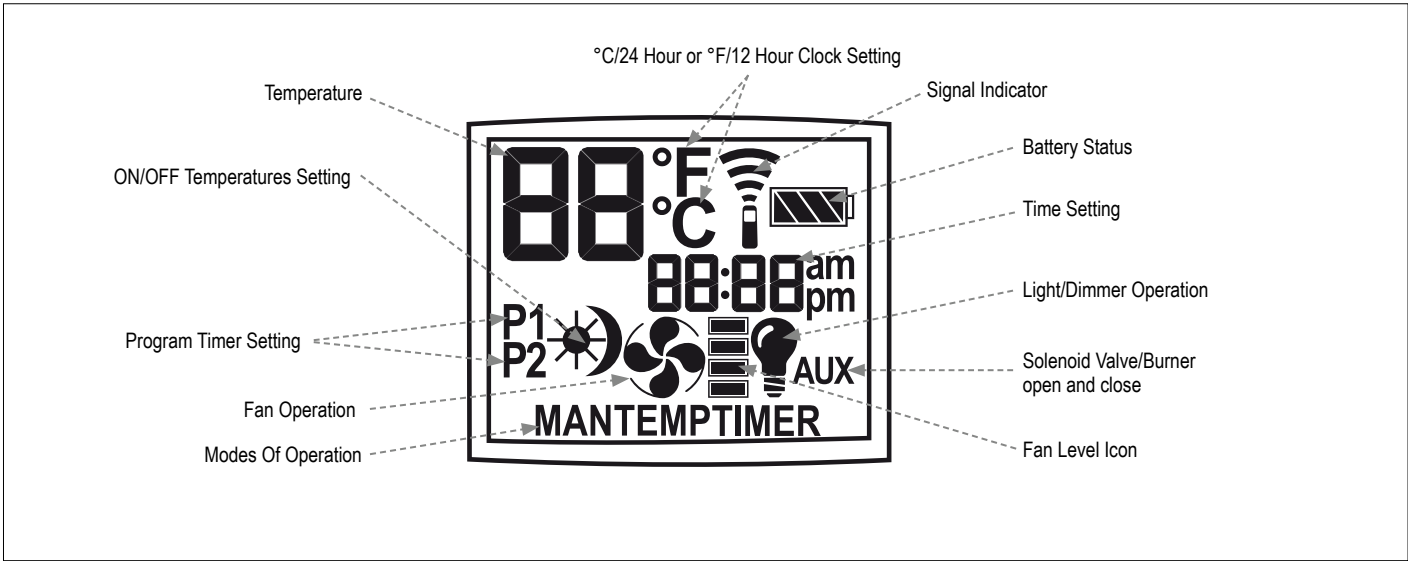


Figure 21: Handset display

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 on 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.

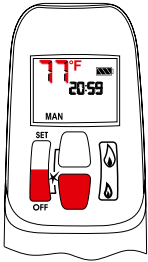
Synchronization Receiver / Handset


NOTICE

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

HANDSET OPERATION

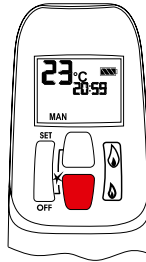
SETTING FAHRENHEIT OR CELSIUS



- To change between °C and °F, press **OFF** and  buttons simultaneously.

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

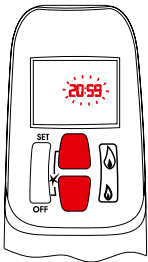
Standby Mode (Pilot Flame)







Handset

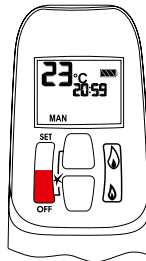
- Press and hold  (**small flame**) to set appliance to pilot flame.

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.

To Turn Off Fire




Handset

- Press **OFF** button.

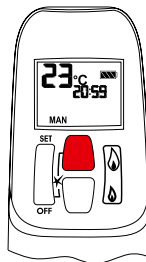
MANUAL MODE (HANDSET)


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.

Flame Height Adjustment

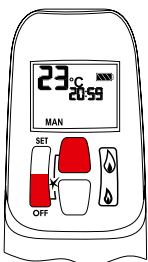



- In Standby Mode: Press and hold  (**large flame**) button to increase flame height.

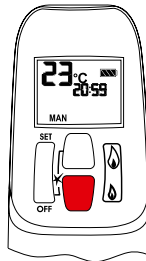
To Turn On Fire




⚠ 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.

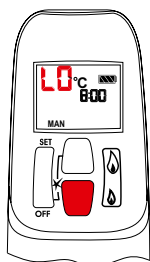


- Press and hold  (**small flame**) button to decrease flame height or to set appliance to pilot flame.
- For fine adjustment tap the  (**large flame**) or  (**small flame**) buttons.

⚠ WARNING

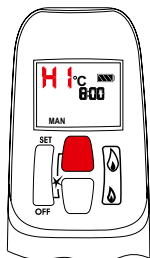
If the pilot does not stay lit after several tries, turn the main valve knob to **OFF** and follow the instructions "TO TURN OFF GAS TO APPLIANCE" (see page 10).

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.

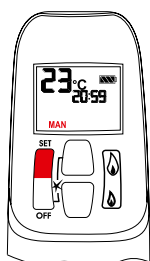


- Double-click (**large flame**) button. Flame automatically goes to high fire. "HI" will be displayed.

⚠ WARNING

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

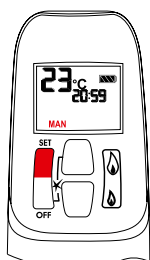
MODES OF OPERATION



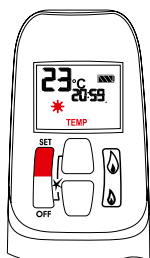
- Briefly pressing the **SET** button changes the mode of operation in the following order:

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.

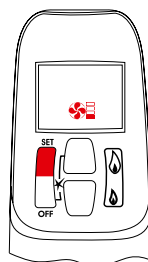


- TEMP – Daytime Temperature Mode**
(Appliance must be in Standby Mode; pilot ignited)

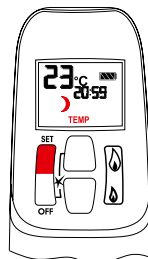
The room temperature is measured and compared to the set temperature. The flame height is then automatically adjusted to achieve the Daytime Set Temperature.



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

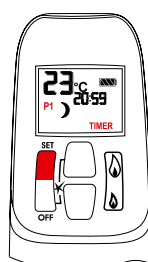


- Circulating Fan Setting Mode**
Turns circulating fan ON and OFF and adjusts fan speed.



- 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.

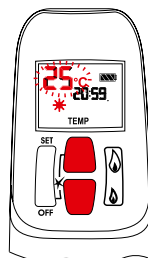
SETTING THE ON/OFF TEMPERATURES

Setting the DAYTIME Temperature

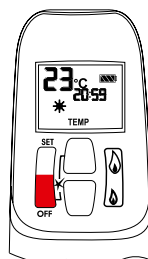
DEFAULT SETTINGS: TEMP, 73°F / 23°C



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



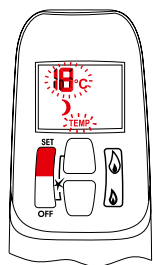
- Press (**large flame**) button to increase Daytime Set Temperature.
- Press (**small flame**) button to decrease Daytime Set Temperature.



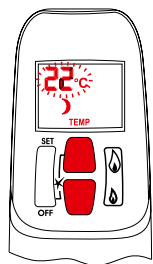
- Press **OFF** or simply wait to complete programming.

Setting the NIGHTTIME SETBACK Temperature

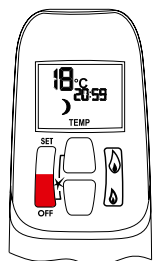
DEFAULT SETTINGS: TEMP, "--" (OFF)



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

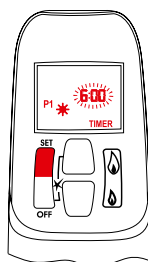


- Press (**large flame**) button to increase Nighttime Setback Temperature.
- Press (**small flame**) button to decrease Nighttime Setback Temperature.

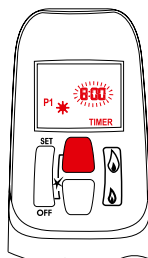


- Press **OFF** or simply wait to complete programming.

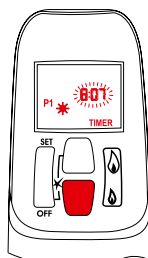
Setting P1 ON Time



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



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



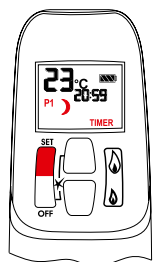
- Set the minutes by pressing the (**small flame**) button.

SETTING PROGRAM TIMERS

Default Settings

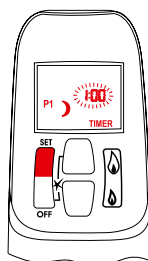
CSA: Program 1:	P1 : 6:00 ^{am}	P1 : 8:00 ^{am}
Program 2:	P2 : 11:50 ^{pm}	P2 : 11:50 ^{pm}
CE: Program 1:	P1 : 6:00	P1 : 8:00
Program 2:	P2 : 23:50	P2 : 23:50

- 2 ON times can be programmed per day.
- CE: The day starts at 0:00, ends at 23:50.
- CSA: The day starts at 12:00^{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}

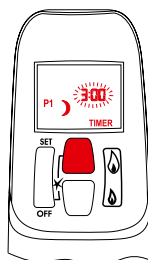


- Select Timer Mode by briefly pressing the **SET** button.

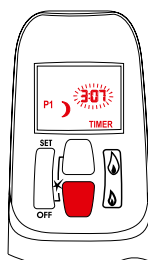
Setting P1 OFF Time



- 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.

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

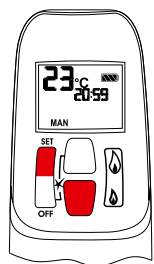
- Briefly press **SET** button to scroll to setting P2 OFF time. **P2** and  is displayed and the time flashes.
- See instructions "Setting P1 OFF Time".
- This concludes programming Timers P1 and P2. Press **OFF** or wait. The handset will automatically save your changes.


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.

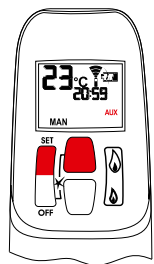
A latching solenoid with reverse polarity and reverse operation is available as an option. Contact Maxitrol for more information.


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.)

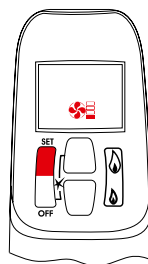
NOTE: The operation of the AUX is blocked in timer OFF mode, when the setting of the  Nighttime Setback Temperature is "—".





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

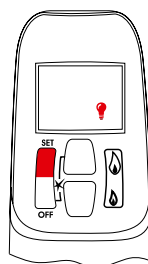
The circulating fan has 4 speed levels from low (1 bar) to high (4 bars).







- 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).



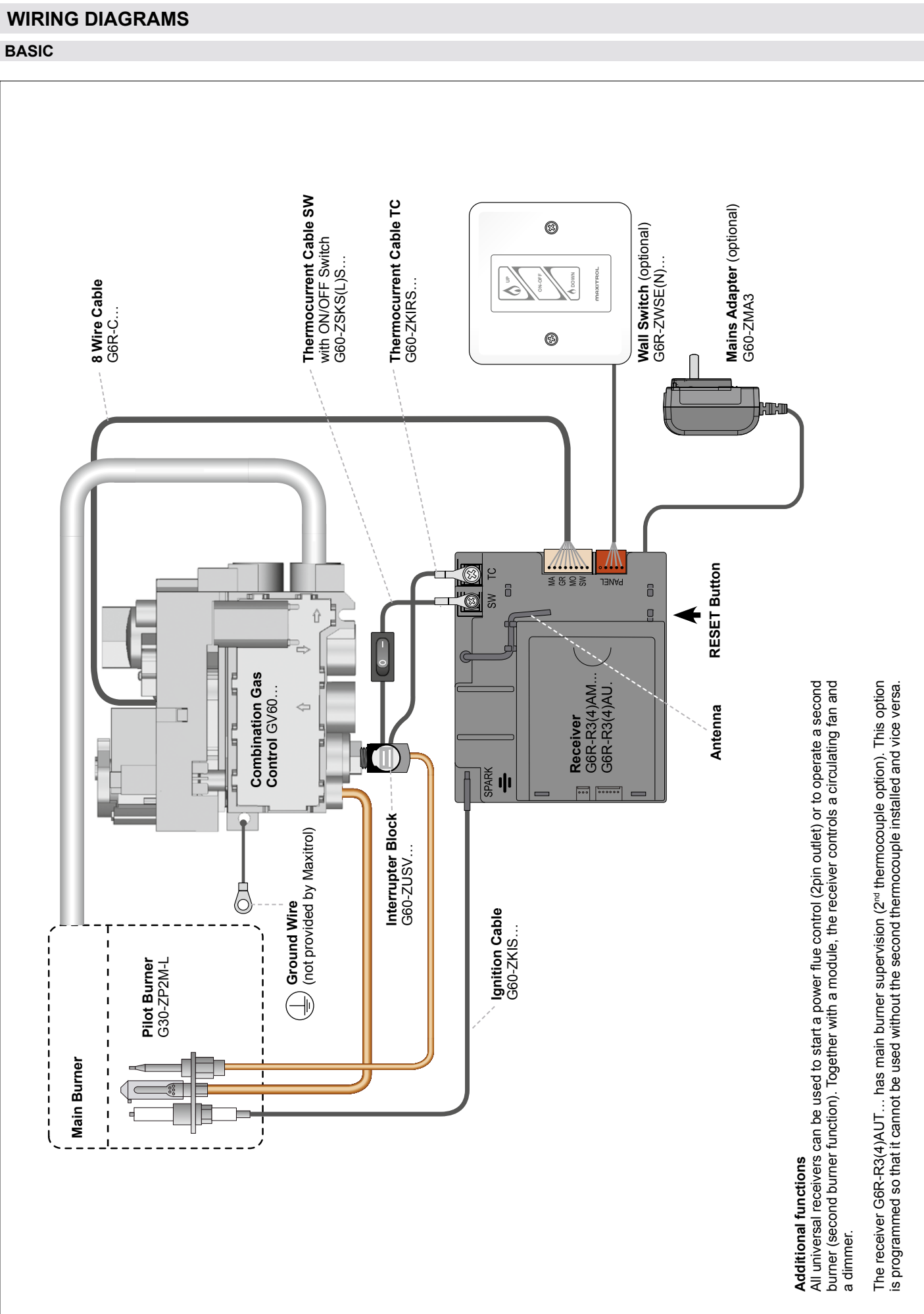


Figure 23

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FAN, LIGHT /DIMMER, 2nd BURNER FUNCTION

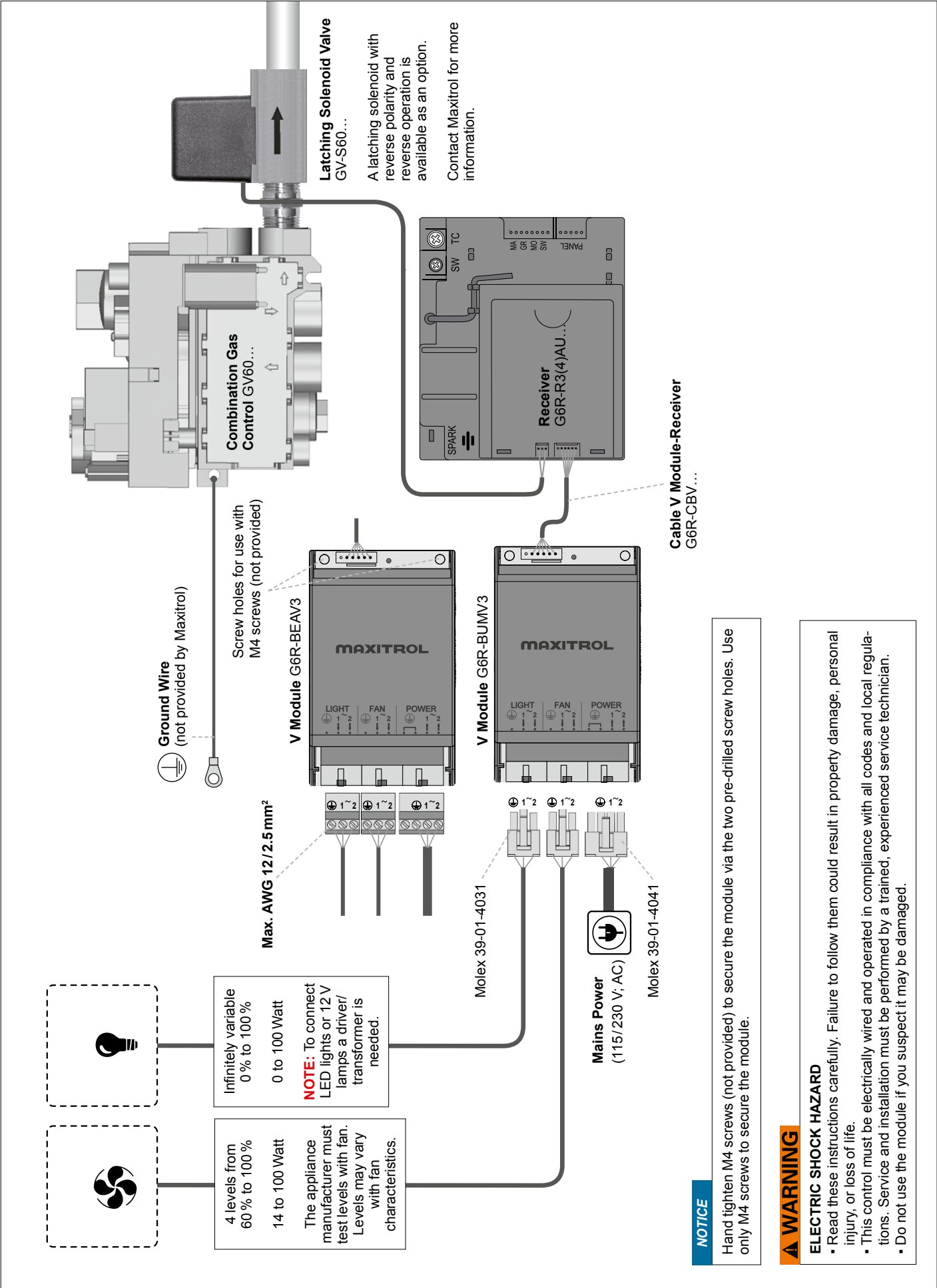


Figure 24

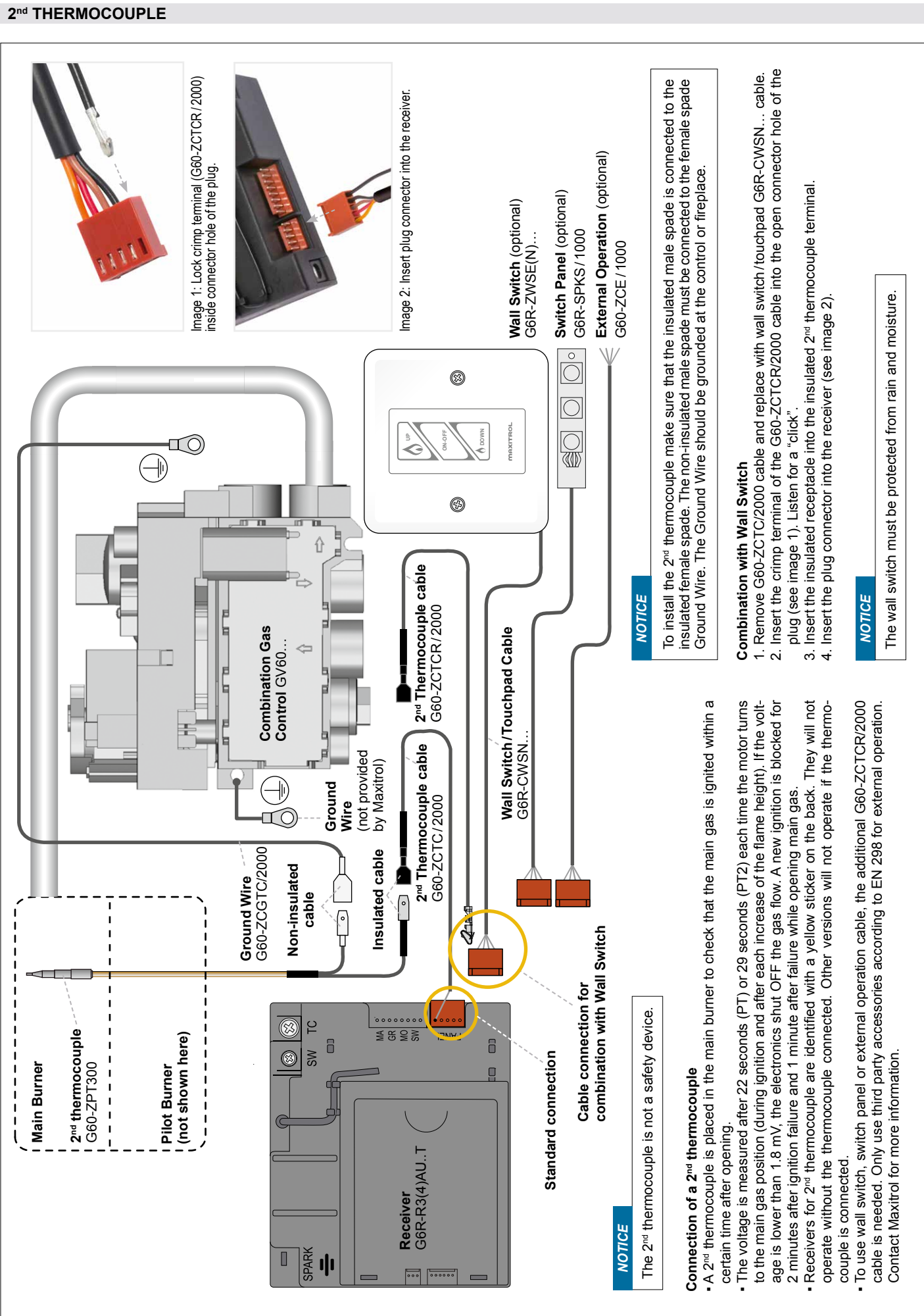


Figure 25

INFRARED (IR)/POWER FLUE CONTROL

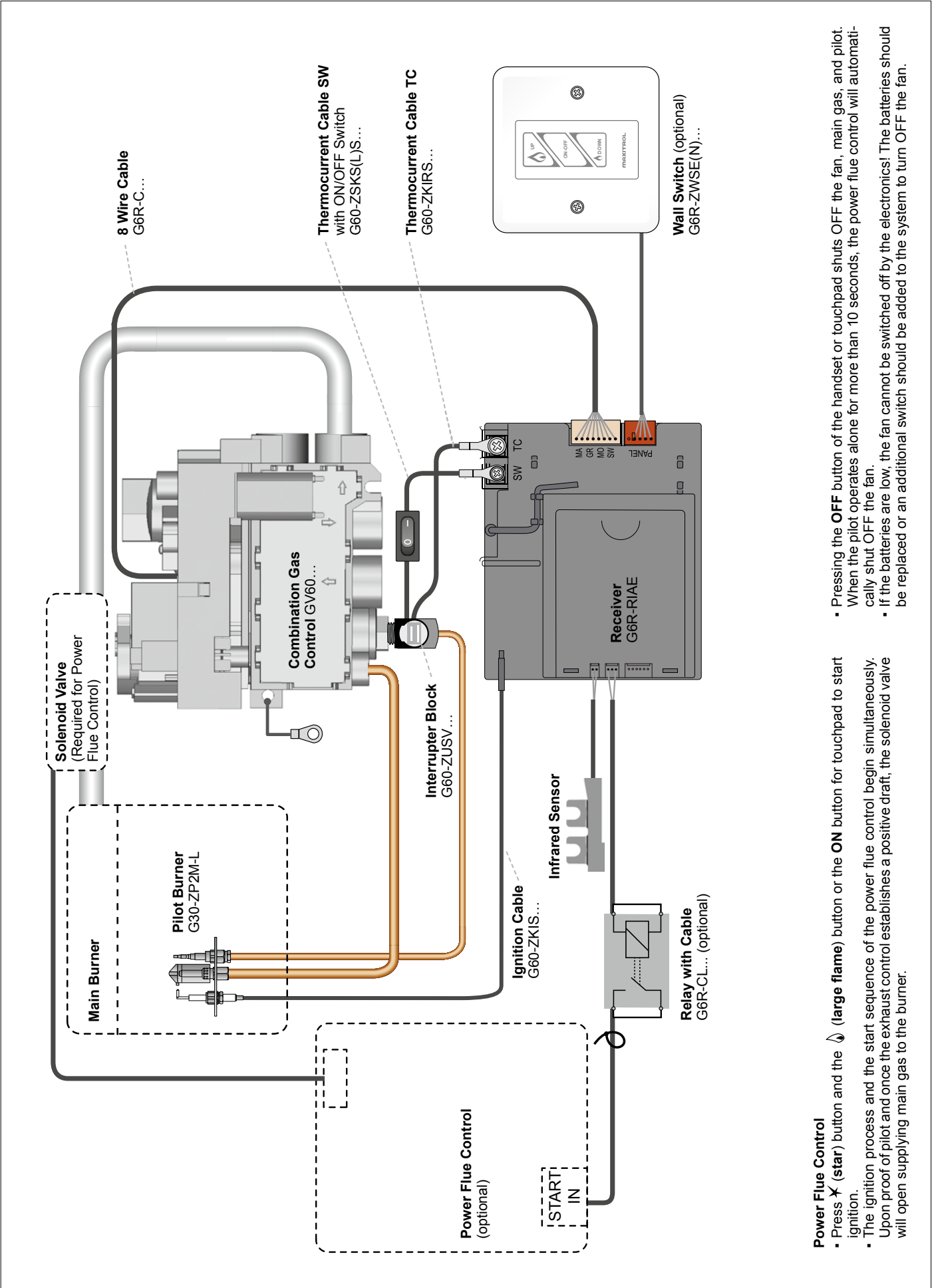
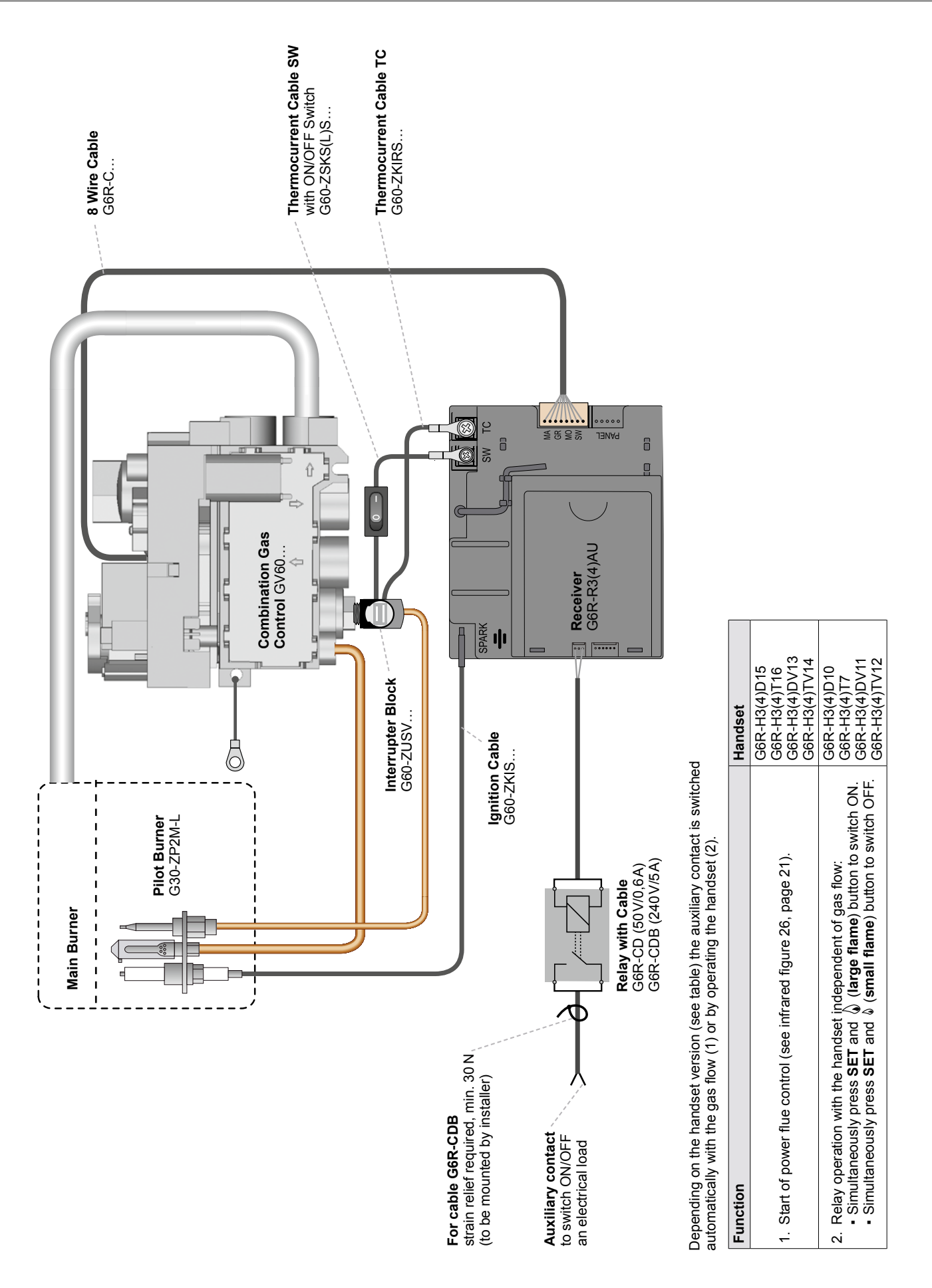


Figure 26

RELAY OPERATION (VOLT FREE CONTACT) (RF, IR)



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