

Ignition Process:

1. Ensure that the two re-chargeable 14500 (3.6 V) batteries have been placed in the heater, as well as the normal AA size batteries (1.5 V) in the remote. Be sure to never insert the normal AA size batteries in heater or the rechargeable batteries in the remote.
2. At the battery slot on the heater, you will find an ON and OFF switch. Set it to ON.
3. Push down and release the SET button. At this point, the igniter should be clicking. The pilot and the burner will come ON within 5-10 seconds.
4. If the pilot and burner do not come on within 15 seconds, the unit will automatically try to relight a second time after 30 seconds.

Note: If the heater does not come ON after two attempts, hold in on the “SET” button for 5 seconds for complete shutdown and repeat step 3 again.

5. After the heater’s burners have activated, you can set the remote control to your desired temperature using the Up (^) and Down (v) arrows.

Shutdown Process:

To stop the heater, shut off the safety valve on the gas inlet line. Next, press the power button on the remote to turn off the unit. If the unit will not be used again in short period, switch the battery lot in OF position, or better remove the batteries out.

Note: Adjustable temperature settings determine the length of time that the heater will operate at maximum BTU to achieve desired temperature, not the actual flame height.

INSPECTING BURNER

Check pilot flame pattern and burner flame pattern often.

PILOT FLAME PATTERN

Two pilot burners with ODS function for NAT and LP gas respectively are installed on burners two sides separately as shown in Figure. 11. The normal ODS pilot flame should have a correct pattern as shown in Figure. 12 in normal operation with exception during ignition stage.

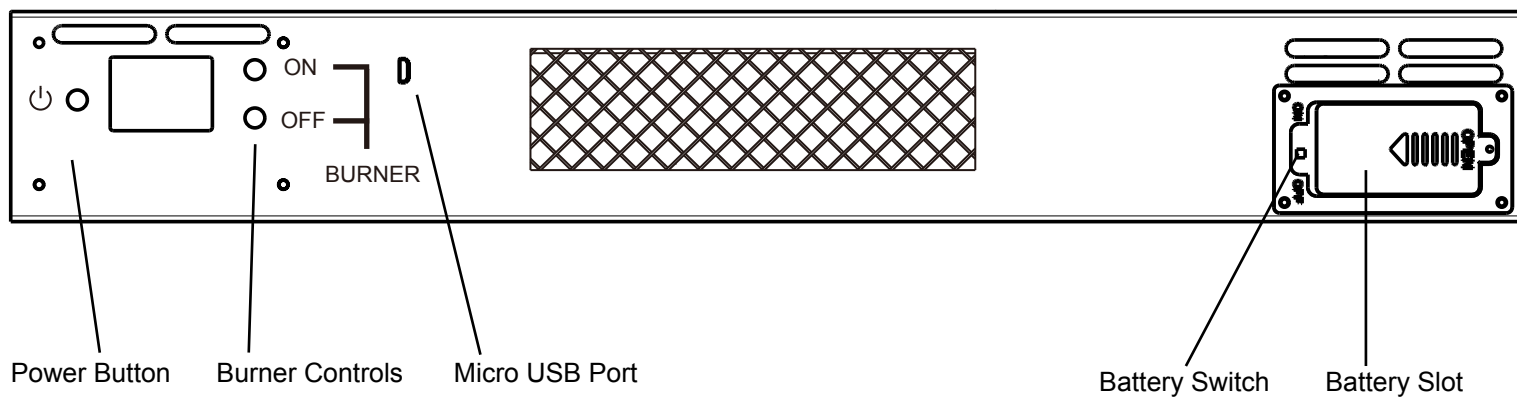


Figure 10 – Control Panel

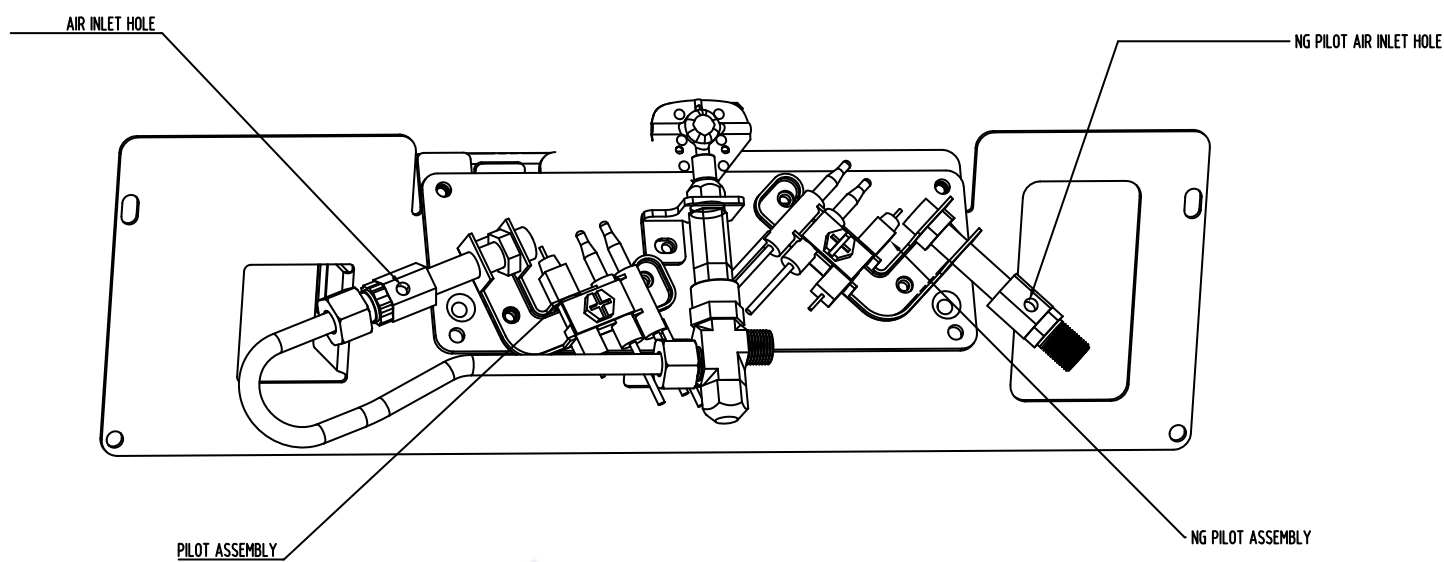


Figure 11 – Pilot System

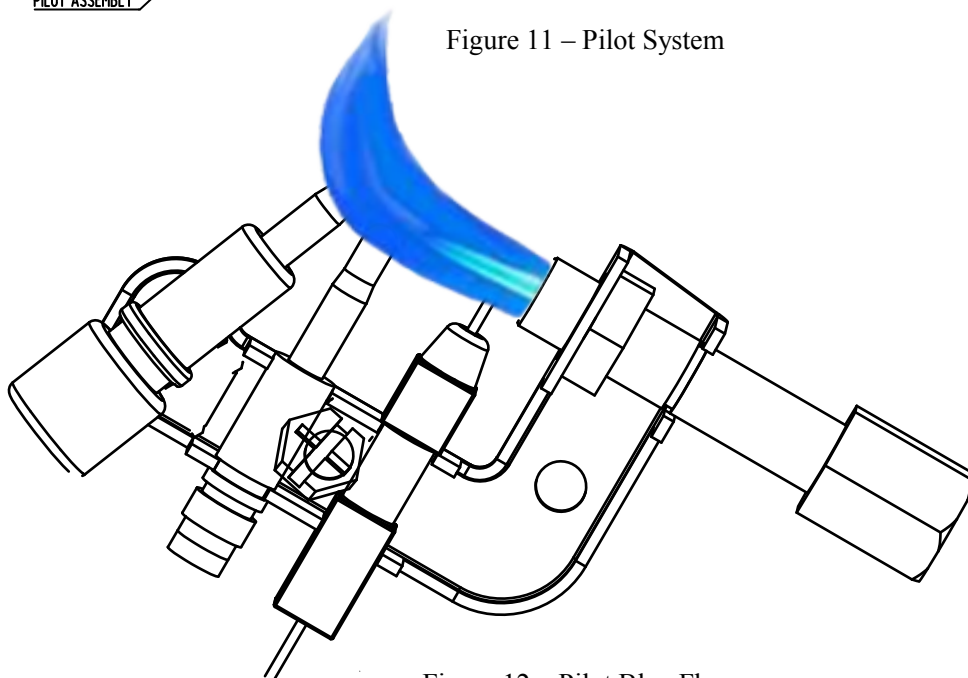


Figure 12 – Pilot Blue Flame

CARE AND MAINTENANCE

 **WARNING:** Turn off heater and let cool before servicing

 **CAUTION:** You must keep control areas, burner, and circulating air passageways of the heater clean. Inspect these areas of heater before each use. Have heater inspected yearly by a qualified service technician. Heater may need more frequent cleaning due to excessive lint from carpeting, bedding material, pet hair, etc.

Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning be may require due to excessive lint from carpeting, bedding material, pet hair, etc.

ODS/PILOT AND BURNER

Use a vacuum cleaner, pressurized air, or a small, soft bristled brush to clean.

CLEANING BURNER PILOT AIR INLET HOLE

We recommend that you clean the unit every 2,500 hours of operation or every three months. We also recommend that you keep the burner tube and pilot assembly clean and free of dust and dirt. To clean these parts, we recommend using compressed air no greater than 30 PSI. Your local computer store, hardware store, or home center may carry compressed air in a can. You can use a vacuum cleaner in the blow position. If using compressed air in a can, please follow the directions on the can. If you don't follow directions on the can, you could damage the pilot assembly.

1. Shut off the unit, including the pilot. Allow the unit to cool for at least thirty minutes.
2. Inspect burner and pilot for dust and dirt.
3. Blow air through the ports/slots and holes in the burner. Also clean the pilot assembly. A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about two inches from where the pilot flame comes out of the pilot assembly (see Figure 11). With the unit off, lightly blow air through the air inlet hole. You may blow through a drinking straw if compressed air is not available.

CABINET

Air Passageways

Use a vacuum cleaner or pressurized air to clean.

Exterior

Use a soft cloth dampened with a mild soap and water mixture.

Wipe the cabinet to remove dust

- 1) Use a soft cloth dampened with a mild soap and water mixture.
- 2) Wipe the cabinet to remove dust.

TROUBLESHOOTING



WARNING:

If you smell gas:

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



IMPORTANT: Operating heater where impurities in air exist may create odors. Cleaning supplies, paint, paint remover, cigarette smoke, cements and glues, new carpet or textiles, etc., create fumes. These fumes may mix with combustion air and create odors.



WARNING: Only a qualified service technician should service and repair heater.



CAUTION: Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit. Note: All troubleshooting items are listed in order of operation.

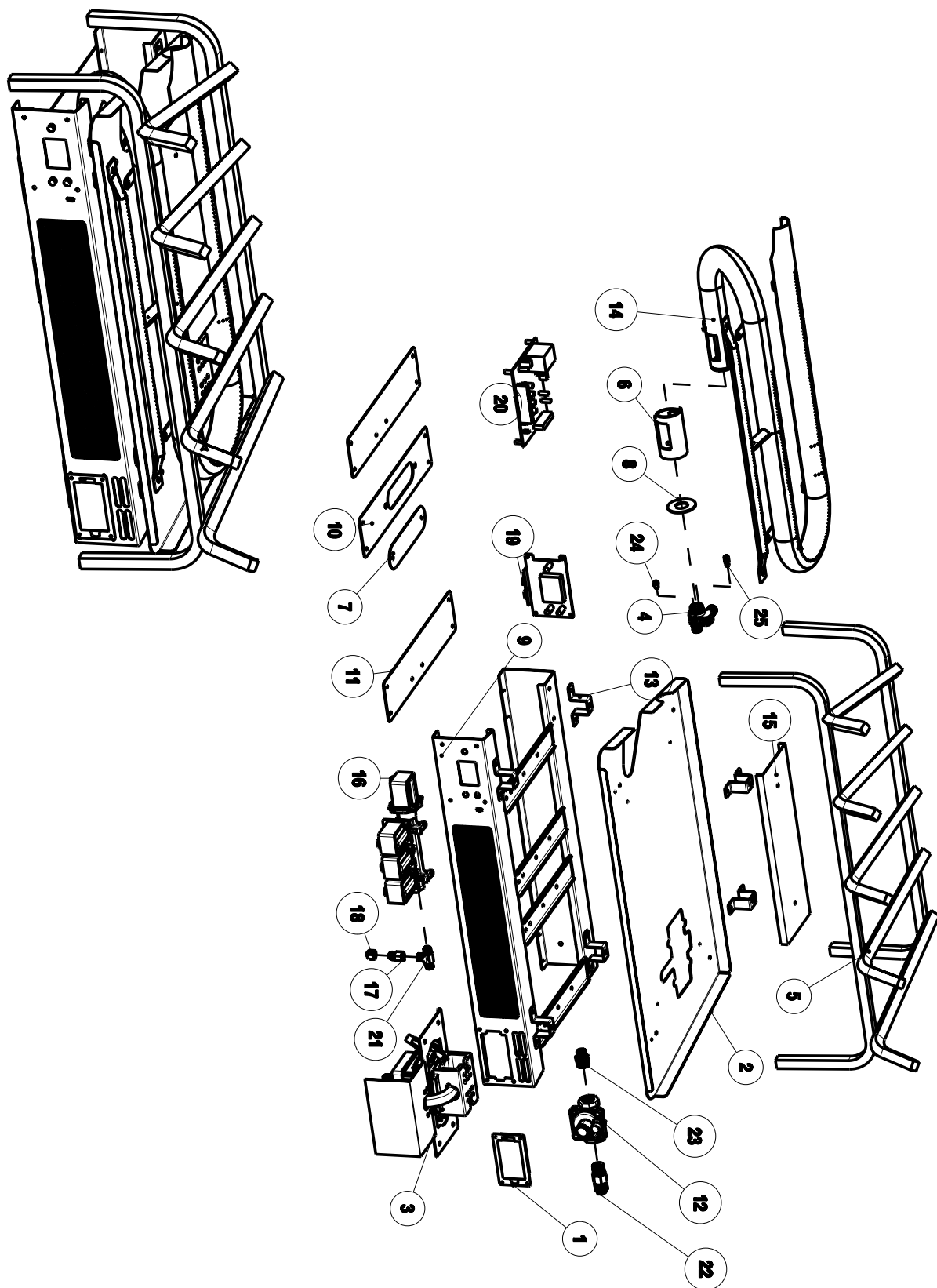
Remote Error Codes

Error Codes	Description
E1: Ignition failure	Will appear once the ignition has failed a minimum of twice in a row. • No or low gas flow to the heater
E2: Unintentional flame shutdown	Can occur due to a lack of oxygen, low gas pressure, gas flow blockage, or a rush of air. • Review minimum clearances in the Installation Considerations section
E3: Overheating	Can take place when air flow is limited, such as sooting, fan failure, improper installation or restricted spacing in placement. • Review minimum clearances in the Installation Considerations section
E4: Fan failure	Power generating cooling fan is malfunctioning, due to power or operation issues. • Review minimum clearances in the Installation Considerations section • Use compressed air to remove dust and sooting
E5: Lack of electricity	This can affect the unit if the batteries are installed incorrectly, have improper voltage (less than 3.5V), or if the power plug is in use and not functioning correctly. • Check battery placement and ensure that they are charged • Use the USB 2.0 Micro Port to ignite the heater

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
➤ When igniting, there is no spark at ODS/pilot.	- Igniter electrode is positioned wrongly. - Cables between switch, battery pack, igniter and igniter electrode may be loose, pinched, wet or broken. - Bad igniter - No battery or battery used out.	- Reposition igniter electrode. - Secure or replace cables between switch, battery pack, igniter and igniter electrode. - Replace igniter. - Install or replace battery.
➤ When igniting, there is a spark at ODS/pilot but no ignition.	- Gas supply is turned off or equipment shutoff valve is closed. - Control knob not fully pressed in while pressing igniter button. - Air in gas lines when installed. - ODS/pilot is clogged. - Control knob not in PILOT position. - External shut off valve on gas supply opened too fast and blocked appliance regulator in heater.	- Turn on gas supply or open equipment shutoff valve. - Fully press in control knob while pressing igniter button. - Continue holding down control knob. Repeat igniting operation until air is removed. - Clean ODS/pilot or replace ODS/pilot assembly. - Turn control knob to PILOT position. - Close external shut off valve and re-open slowly.
➤ ODS/pilot lights but flame goes out when control knob is released.	- Both control and igniter knobs are not fully pushed down. - Thermocouples are not heated enough. - External shutoff valve of gas supply is not fully opened. - Thermocouple connections are loose or damaged. - Control valve damaged.	- Press in both the igniter and pilot knobs fully. While holding igniter down, set control knob to number 5. Run heater for 15 minutes. - After ODS/pilot lights, keep both knobs depressed for at least 15 seconds. - Fully open equipment shutoff valve. - Secure or replace thermocouple connections. - Contact customer service.
➤ Burner(s) does not light after ODS/pilot is lit stably	- Burner orifice is clogged. - Burner orifice diameter is too small. - Inlet gas pressure is too low.	- Clean burner orifice or replace burner orifice. - Contact customer service. - Contact local gas supplier.
➤ Delayed ignition of burner(s).	- Manifold pressure is too low. - Burner orifice is clogged.	- Contact local gas supplier. - Clean or replace burner orifice.
➤ Burner backfiring during combustion.	- Burner orifice is clogged. - Burner is damaged. - Gas regulator or/and appliance regulator are defective.	- Clean burner using compressed air or replace burner orifice. - Contact customer service. - Contact customer service.
➤ Slight smoke or odor during initial operation.	Residues from manufacturing processes.	Problem will dissipate after a few hours of operation in high setting. Ensure appropriate ventilation during this time.
➤ Heater produces a whistling noise when burner is lit.	- Turning control knob to Hi position when burner is cold. - Air in gas line. - Air passageways on heater are blocked. - Dirty or partially clogged burner orifice.	- Turn control knob to LO position and let warm up for a minute. - Operate burner until air is removed from line. Have gas line checked by local gas supplier. - Observe minimum installation clearances - Clean or replace burner.

➤ Heater produces a clicking/ ticking noise just after burner is lit or shut off.	• Metal is expanding while heating or contracting while cooling.	• This is common with most heaters. If noise is excessive, contact qualified service technician.
➤ White powder residue forming within burner box or on adjacent walls or furniture.	• When heated, the vapors from furniture polish, wax, carpet cleaners, etc., turn into white powder residue.	• Turn heater off when using furniture polish, wax, carpet cleaner, or similar products.
➤ Heater produces unwanted odors.	• Heater is burning vapors from paint, hair spray, glues, etc. See IMPORTANT statement. • Gas leak. See Warning Statement • Low fuel supply.	• Ventilate room. Stop using odor causing products while heater is running. • Locate and correct all leaks, • Refill supply tank (Propane / LP models).
➤ Heater shuts off in use (ODS operates).	• Not enough fresh air is available. • Low line pressure. • ODS/pilot is partially clogged.	• Open window and/or door for ventilation. • Contact local gas supplier. • Clean ODS/pilot
➤ Gas odor during combustion	• Gas leak. See Warning Statement • Control valve is defective. • Foreign matters in heater	• Locate and correct all leaks. • Contact customer service. • Remove foreign matters
➤ Unexpected moisture/condensation noticed on windows.	• Ambient moisture is too high, • Not enough ventilation	• Use a dehumidifier, • Refer to “Air for Combustion and Ventilation Requirements”
➤ Heater is not receiving power	• The batteries could be loose or misplaced • The batteries have lost their charge	• Ensure that the batteries are placed properly • Plug in the heater using the USB 2.0 Micro port to a wall outlet, then run the heater as normal. The heater will charge the rechargeable AA batteries that were included with purchase

ILLUSTRATED PARTS (Model: GLDF24R-VF)



PARTS LIST (Model: GLDF24R-VF)

Code	Description	Code	Description
1	Battery pack	14	Burner
2	Insulating board	15	Heat insulation frame
3	Thermoelectric generating assembly	16	Gas distribution assembly
4	Nozzle seat	17	Pressure test joint
5	Grate	18	Pressure test point cap
6	Air door	19	LED
7	Air door cover	20	PCB
8	Air door shield	21	T-joint No. 2
9	Frame assembly	22	Appliance regulator No. 1
10	Bottom strengthen strip No. 1	23	Appliance regulator No. 2
11	Bottom strengthen strip No. 2	24	LPG Nozzle
12	Appliance regulator valve	25	NG Nozzle
13	Chamber spacer		

Parts Not Sold Separately

Questions about installation and initial operation should be directed to your installer. For all other concerns and questions, please reach out to our customer service team at 1-877-670-8428, by email at service@thermablaster.com, or visit www.thermablaster.com

Annual Service Schedule

Service Performed	Service Date

Please **register** your product online at www.thermablaster.com, or send in the registration form below to our office at:

Reecon North America
2515 Liberty Ave
1st Floor
Pittsburgh, PA 15222

Contact Information

Product Information

Name:	Model:
Phone:	Serial Number:
Email:	Date of Purchase:
Address:	Retailer Purchased From:
City:	Installer Company:
State:	Installer Phone:
Zip Code:	Installer Zip Code:

****All information above is required in order for our company to honor the warranty****

Comments:



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