

HOMELITE[®]

OWNERS MANUAL

PROPANE CONSTRUCTION HEATER

Model HP275



Indicates Warning,
Danger, and Caution



Read all Safety, Operating,
and Maintenance
Instructions

⚠ GENERAL HAZARD WARNING:

FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER, CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, AND/OR CARBON MONOXIDE POISONING.

ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.

IF YOU NEED ASSISTANCE OR HEATER INFORMATION SUCH AS AN INSTRUCTIONS MANUAL, LABELS, ETC. CONTACT THE MANUFACTURER.

SECOND EDITION

PART NO. 18583

Printed In U.S.A.


Price \$1.00

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SAFETY INFORMATION

WARNINGS

 WARNING: FIRE, BURN, INHALATION, AND EXPLOSION HAZARD. KEEP SOLID COMBUSTIBLES, SUCH AS BUILDING MATERIALS, PAPER OR CARDBOARD, A SAFE DISTANCE AWAY FROM THE HEATER AS RECOMMENDED BY THE INSTRUCTIONS. NEVER USE THE HEATER IN SPACES WHICH DO OR MAY CONTAIN VOLATILE OR AIRBORNE COMBUSTIBLES, OR PRODUCTS SUCH AS GASOLINE, SOLVENTS, PAINT THINNER, DUST PARTICLES OR UNKNOWN CHEMICALS.

WARNING

NOT FOR HOME OR RECREATIONAL VEHICLE USE.

The heater is designed for use as a construction heater. The primary purpose of construction heaters is to provide temporary heating of buildings under construction, alteration or repair, and to provide temporary emergency heat. Properly used, the heater provides safe economical heating. Products of combustion are vented into the area being heated.

We cannot foresee every use which may be made of our heaters. **Check with your local fire safety authority if you have questions about heater use.**

Other standards govern the use of fuel gases and heat producing products for specific uses. Your local authorities can advise you about these.

Carbon Monoxide Poisoning: Some people are more affected by carbon monoxide than others. Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness, and/or nausea. If you have these signs, the heater may not be working properly. **Get fresh air at once!** Have heater serviced.

Safety Information continues on next page

SAFETY INFORMATION

Continued

WARNINGS *Continued*

Propane Gas: Propane gas is odorless. An odor-making agent is added to propane gas. The odor helps you detect a propane gas leak. However, the odor added to propane gas can fade. Propane gas may be present even though no odor exists.

Make certain you read and understand all warnings. Keep this manual for reference. It is your guide to safe and proper operation of this heater.

- For indoor use only. Provide adequate ventilation.
- Do not use heater outdoors or in occupied dwellings.
- Do not use heater in living or sleeping quarters.
- Keep appliance area clear and free from combustible materials, gasoline, paint thinner, and other flammable vapors and liquids. Do not use heater in areas with high dust content.
- Do not use heater below ground level. Propane gas is heavier than air. If a leak occurs, propane gas will sink to the lowest possible level.
- Use only in well-vented areas. Before using heater, provide at least a three-square-foot opening of fresh, outside air for each 100,000 BTU/Hr of rating. This heater produces carbon monoxide, which is listed by the State of California as a reproductive toxin under Proposition 65.
- Check heater for damage before each use. Do not use a damaged heater.
- Keep heater away from strong drafts, water spray, rain, or dripping water.
- Never attach duct work to heater.
- Never block air inlet (bottom of shell) or air outlet (around top of shell) of heater.
- Keep children and animals away from heater.
- Locate heater on stable and level surface if heater is hot or operating.
- Minimum heater clearances from combustibles:
Sides: 4 feet Top: 6 feet-2 inches.
- Install and use heater with care. Follow all local ordinances and codes. In the absence of local ordinances and codes, refer to ANSI/NFPA 58. This instructs on the safe storage and handling of propane gases.
- Use only the hose and factory preset regulator provided with the heater.
- Inspect hose before each use of heater. If highly worn or cut, replace before using heater. Use the replacement hose assembly that is specified by the manufacturer.
- Use only propane gas set up for vapor withdrawal.
- Keep propane tank(s) below 100° F.
- Keep heater at least six feet from propane tank(s).
- Never move, handle, or service a hot or operating heater. Severe burns may result. You must wait 30 minutes after turning heater off.
- To prevent injury, wear gloves when handling heater.
- Turn off propane supply to heater when not in use.
- Do not alter heater. Keep heater in its original state.
- Do not use heater if altered.
- Use only original replacement parts. This heater must use design-specific parts. Do not substitute or use generic parts. Improper replacement parts could cause serious or fatal injuries.

PRODUCT IDENTIFICATION

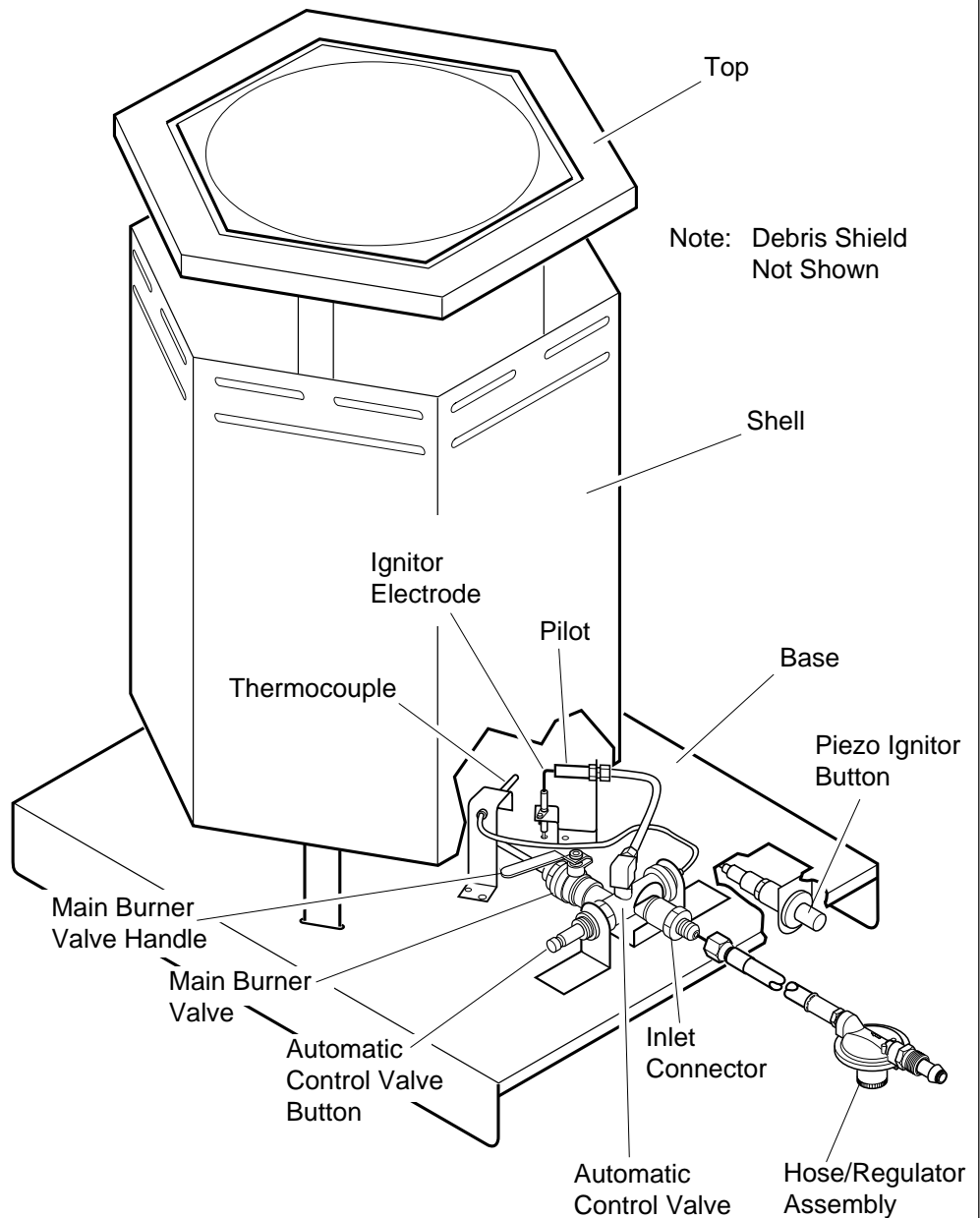


Figure 1 - HP275

UNPACKING

1. Remove all packing items applied to heater for shipment. Keep plastic cover caps (attached to inlet connector and hose/regulator assembly) for storage.
2. Remove all items from carton.
3. Check all items for shipping damage. If heater is damaged, promptly inform dealer where you bought heater.

THEORY OF OPERATION

The Fuel System: The hose/regulator assembly attaches to the propane gas supply. This provides fuel to the heater.

The Ignition System: The piezo ignitor lights the pilot fuel supply.

The Automatic Control System: The automatic control valve shuts off the heater if the flame goes out.

PROPANE SUPPLY

You must provide propane gas and propane tank(s).

Use this heater only with a propane vapor withdrawal supply system. See Chapter 5 of the *Standard for Storage and Handling of Liquefied Petroleum Gas, ANSI/NFPA 58*. Your local library or fire department will have this booklet.

The amount of propane gas ready for use from propane tanks varies. Two factors decide this amount.

1. The amount of liquid propane gas in tank(s)
2. The temperature of tank(s)

The chart below shows the minimum number of 100-pound tanks needed to run the heater. Connect tanks together with a manifold. Do not operate this product with any tank smaller than 100 pounds.

| Average Temperature (°F) At Tank Location | 60° | 40° | 32° | 20° | 10° | 0° |
|--|-----|-----|-----|-----|-----|----|
| Number Of Tanks | 2 | 2 | 3 | 3 | 3 | 3 |

Less gas is vaporized at lower temperatures. Two or more 100-pound tanks or one larger tank may be needed in colder weather. Your local propane gas dealer will help you select the proper supply system.

VENTILATION

WARNING

Follow the minimum fresh outside air ventilation requirements. If proper fresh outside air ventilation is not provided, carbon monoxide poisoning can occur. Provide proper fresh outside air ventilation before running heater.

FRESH OUTSIDE AIR OPENING REQUIREMENTS

| HEATER SIZE | SQUARE FEET OPENING |
|----------------|---------------------|
| 230,000 BTU/Hr | 6.9 |

SPECIFICATIONS

| | |
|--------------------------------|--|
| Rating (BTU/Hr) | 230,000 |
| Fuel | Propane Vapor Only |
| Fuel Consumption | |
| Gallons/Hour | 2.5 |
| Pounds/Hour | 10.7 |
| Supply Pressure (To Regulator) | |
| Maximum | Tank Pressure |
| Minimum, for input adjustment | 40 psi |
| Regulator Outlet Pressure | 10 psi |
| Weight (Pounds) | 15 |
| Shipping Weight (Pounds) | 19 |
| Size - L x W x H (Inches) | 18 ¹ / ₂ x 16 x 23 ¹ / ₈ |

INSTALLATION

WARNING

Review and understand the warnings in the Safety Information Section. They are needed to safely operate this heater. Follow all local codes when using this heater.

WARNING

Test all gas piping and connections for leaks after installation or servicing. Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak. Correct all leaks at once.

1. Provide propane supply system (see *Propane Supply*, page 5).
2. Connect POL fitting on hose/regulator assembly to propane tank(s). Turn POL fitting counterclockwise into threads on tank. Tighten firmly using 7/8" wrench. **IMPORTANT:** Tighten regulator with vent pointing down. Pointing vent down protects regulator from weather damage.

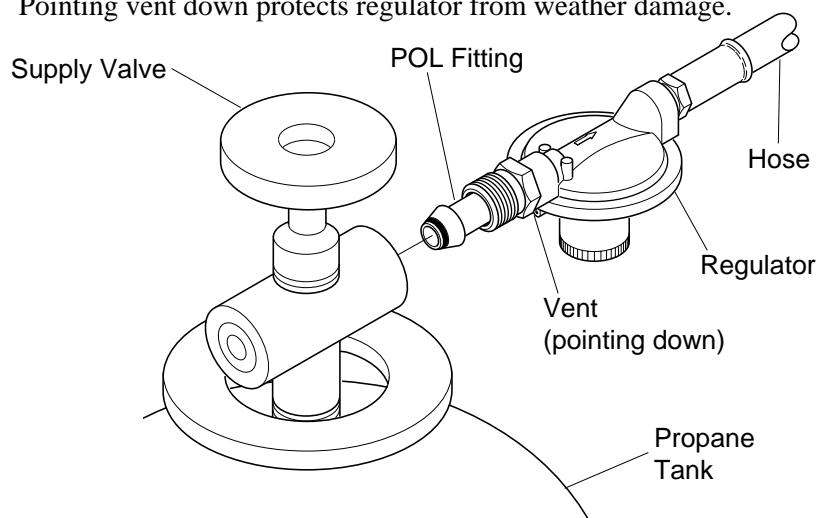


Figure 2 - Regulator With Vent Pointing Down

3. Connect hose to the inlet connector. Tighten firmly using 9/16" wrench. **IMPORTANT:** Use extra hose or piping if needed. Install extra hose or piping between hose/regulator assembly and propane tank. You must use the regulator supplied with heater even if propane tank has one.

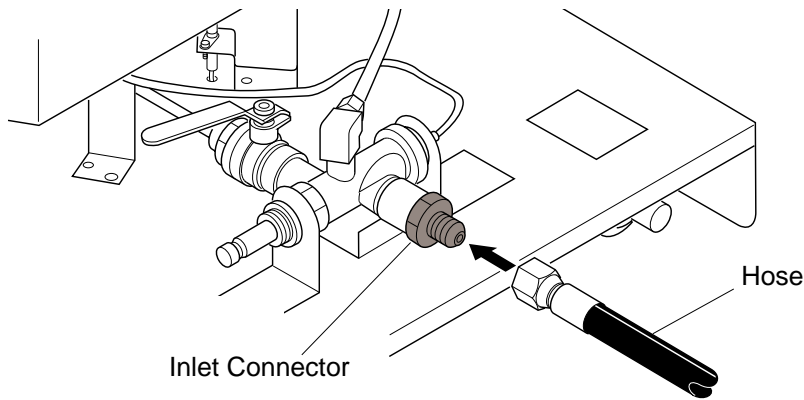


Figure 3 - Hose and Inlet Connector

4. Open propane supply valve on propane tank(s) slowly. **Note:** If not opened slowly, excess-flow check valve on propane tank will stop gas flow. If this happens, close propane supply valve and open again slowly.

Continued

OPERATION

5. Check all connections for leaks. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak that must be corrected.

⚠ WARNING

Never use an open flame to check for a leak. Apply a mixture of liquid soap and water to all joints. Bubbles forming show a leak that must be corrected. Correct all leaks at once.

6. Close propane supply valve.

⚠ WARNING

Review and understand the warnings in the Safety Information Section. They are needed to safely operate this heater. Follow all local codes when using this heater.

To Start Heater

1. Follow all installation, ventilation, and safety information.
2. Locate heater on stable and level surface. Make sure strong drafts do not blow on heater.

⚠ WARNING

Fully close main burner valve before lighting pilot. If not, severe burns can occur. Do this by turning valve handle towards the OFF position until it stops.

3. Open propane supply valve on propane tank(s) slowly. *Note:* If not opened slowly, excess-flow check valve on propane tank will stop gas flow. If this happens, close propane supply valve and open again slowly.
4. Push in and hold automatic control valve button (see Figure 4).
5. Push piezo ignitor button (see Figure 4). You may need to push the piezo ignitor button 3-8 times until the pilot lights. *Note:* Hose may be filled with air. If so, keep automatic control valve button pressed and wait 20 seconds before pressing ignitor button again. When pilot lights, keep automatic control valve button pushed in. Release button after 30 seconds.

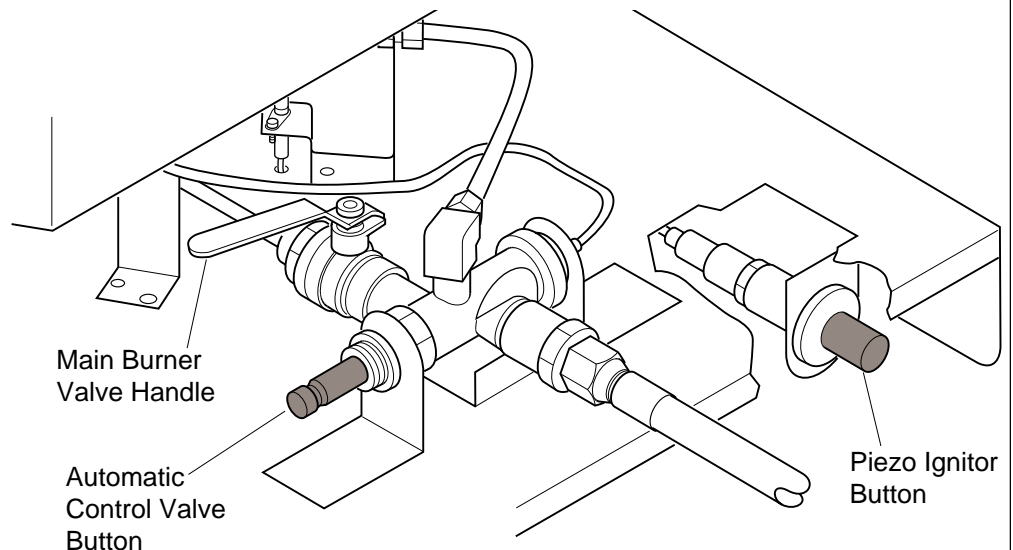


Figure 4 - Main Burner Valve Handle, Automatic Control Valve Button, and Piezo Ignitor Button Locations

Continued

6. If pilot light goes out, repeat steps 4 and 5.
7. When pilot remains lit, fully open main burner valve. Do this by turning main burner valve handle towards the ON position until it stops. *Note:* Arrows on main burner valve handle show directions for ON and OFF.

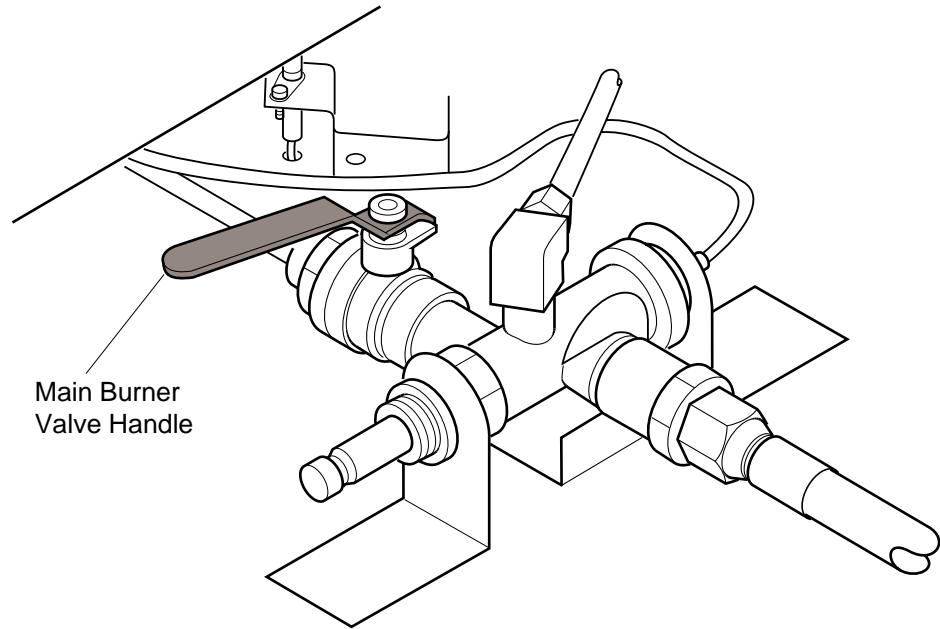


Figure 5 - Main Burner Valve Handle Location

To Stop Heater

1. Tightly close propane supply valve on propane tank(s).
2. Shut off main burner valve. Do this by turning main burner valve handle towards the OFF position until it stops. *Note:* Arrows on main burner valve handle show direction for ON and OFF.

To Restart Heater

1. Wait five minutes after stopping heater.
2. Restart heater by following steps under *To Start Heater*.

STORAGE

⚠ CAUTION

Disconnect heater from propane supply tank(s).

⚠ CAUTION

Do not stack heaters over three high if more than one heater is being stored. Secure heaters with rope or strap after stacking.

1. Store propane tank(s) in safe manner. Refer to Chapter 5 of *Standard for Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA 58*. Follow all local codes. Always store propane tanks outdoors.
2. Place plastic cover caps over brass fittings on inlet connector and hose/regulator assembly.
3. Store in a dry, clean, and safe place.

MAINTENANCE

TROUBLE-SHOOTING

WARNING

Never attempt to service heater while it is connected to propane supply, operating, or hot. Severe burns can occur.

1. Keep heater clean.
2. Inspect heater before each use. Check connections for leaks. Apply mixture of liquid soap and water to connections. Bubbles forming show a leak that must be corrected. Correct all leaks at once.
3. Inspect hose/regulator assembly before each use. If hose is highly worn or cut, replace.
4. Have heater inspected yearly by service person.

WARNING

Never attempt to service heater while it is connected to propane supply, operating, or hot. Severe burns can occur.

| SYMPTOM | POSSIBLE CAUSE | REMEDY |
|--|--|---|
| Pilot fails to light. | <ol style="list-style-type: none">1. Propane supply valve closed on propane tank(s).2. Excess-flow check valve closed.3. Air in gas line.4. Blockage in pilot orifice.5. Piezo ignition system not sparking. | <ol style="list-style-type: none">1. Open propane supply valve slowly.2. Close propane supply valve on propane tank and reopen slowly.3. Allow several minutes to purge air with automatic control valve button depressed.4. Replace pilot orifice.5. Adjust ignitor electrode gap to .120". Check wire lead for damage. Replace piezo ignitor and/or ignitor electrode as necessary. |
| Pilot lights but goes out when automatic control valve button is released. | <ol style="list-style-type: none">1. Not enough warm-up time.2. Low gas pressure.3. Thermocouple loose or needs to be replaced.4. Automatic control valve needs to be replaced. | <ol style="list-style-type: none">1. Relight, hold automatic control valve button in 45 seconds.2. Check propane tank(s) for proper gas supply.3. Tighten connection or replace thermocouple.4. Replace automatic control valve. |
| Burn rate is low. | <ol style="list-style-type: none">1. Main burner valve not fully open.2. Plugged gas orifices.3. Low gas pressure.4. Low fuel supply. | <ol style="list-style-type: none">1. Fully open main burner valve by turning the valve handle towards ON position until it stops.2. Replace gas orifice.3. Check gas supply; check regulator output.4. Consult propane gas supplier. |

SERVICING DEALER INFORMATION

For the location of your nearest Homelite Servicing Dealer in the contiguous United States, Hawaii, Puerto Rico, and the Virgin Islands.

CALL: 1-800-242-4672
1-800-521-5165 N.C. Res. only

NOTE: Only Dealer Location Information can be obtained at this number.

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