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# Charmglow CGN300TQ Owner's Manual

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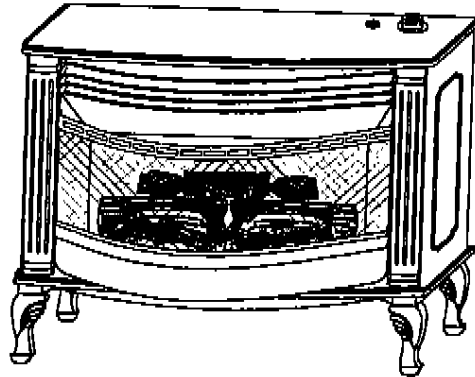


VENT-FREE  
GAS STOVE

# H E A T E R S

## OWNER'S OPERATION AND INSTALLATION MANUAL

CGN300TQ  
CGL300TQ



**WARNING:** If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

**WARNING:** This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to *Air for Combustion and Ventilation* section on page 4 of this manual.

**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for correct installation and operational procedures. For assistance or additional information consult a qualified installer, service agency, or the gas supplier.

This appliance may be installed in an aftermarket\*, permanently located, manufactured (mobile) home, where not prohibited by local codes.  
This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

Do not store or use gasoline or other flammable vapors and liquids in this vicinity of this or any other appliance.

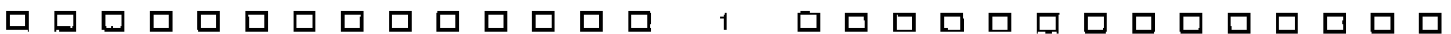
**WHAT TO DO IF YOU SMELL GAS**

- 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.

Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

\*Aftermarket: Completion of sale, not for purpose of resale, from the manufacturer.

READ AND SAVE THIS MANUAL FOR FUTURE REFERENCE













## CLEARANCES TO COMBUSTIBLES

(Vent-Free Operation Only)

Carefully follow the instructions below. This stove is a freestanding unit designed to set directly on the floor. **IMPORTANT:** You must maintain minimum wall and ceiling clearances during installation. The minimum clearances are shown in Figure 4. Measure from outermost point of stove top.

### Minimum Wall and Ceiling Clearances (see Figure 4)

- A. Clearances from outermost point of stove top to any combustible side wall should not be less than 12 inches.
- B. Clearances from outermost point of stove top to any combustible back wall should not be less than 6 inches (includes corner installations).
- C. Clearances from the stove top to the ceiling should not be less than 48 inches.

The installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to rating inches of water.

If you do not reduce incoming gas pressure, heater regulator damage could occur. Install external regulator with the vent pointing down as shown in Figure 6. Pointing the vent down protects it from freezing rain or sleet.

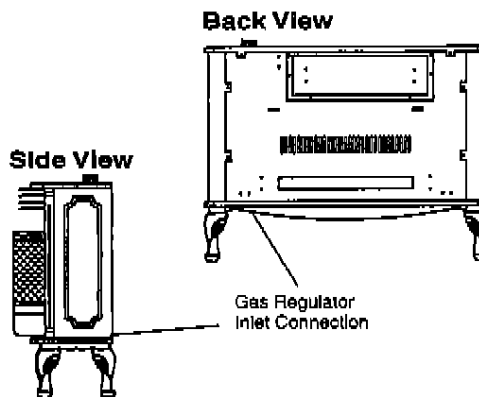


Figure 5. Gas Regulator Location and Gas Line Access Into Stove Cabinet

## CONNECTING TO GAS SUPPLY

**WARNING:** A qualified service person must connect heater to gas supply. Follow all local codes.

**CAUTION:** Never connect heater directly to the gas supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and gas supply.

### Installation Items Needed

Before installing heater, make sure you have items listed below:

- piping (check local codes)
- sealant (resistant to gas)
- equipment shutoff valve\*
- test gauge connection\*
- sediment trap
- tee joint
- pipe wrench

\*A CSA design-certified equipment shutoff valve with 1/8" NPT tap is an acceptable alternative to test gauge connection. Purchase the optional CSA design-certified equipment shutoff valve from your dealer. See *Accessories*.

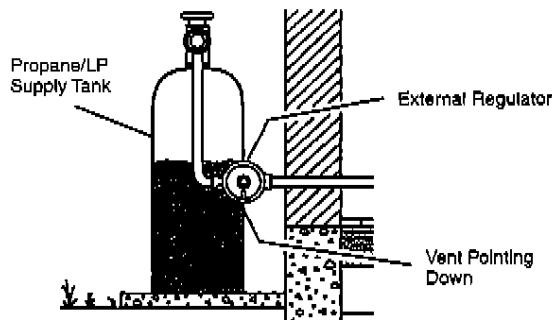


Figure 6. External Regulator With Vent Pointing Down

**NG Models:**  
5"-10.5" W.C.  
Do not need external regulator.

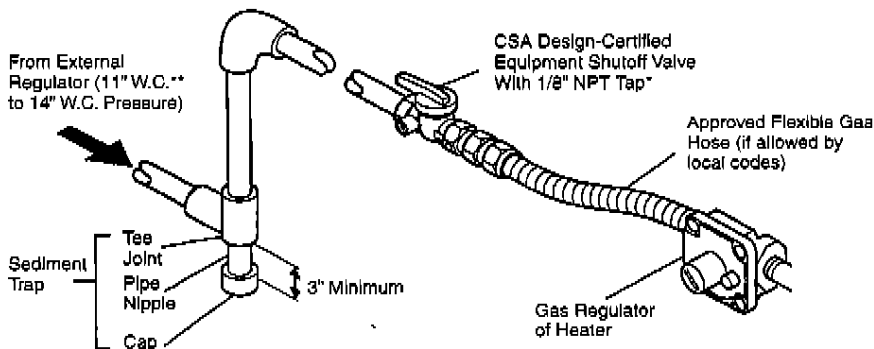


Figure 7. Gas Connection

- \* Purchase the optional CSA design-certified equipment shutoff valve from your dealer. See *Accessories*.
- \*\* Minimum inlet pressure for purpose of input adjustment.

**⚠ WARNING:** Never connect the heater to private (non-utility) gas wells. This gas is commonly known as well-head gas.

**⚠ CAUTION:** Use only new black iron or steel pipe. Internally-flinned copper tubing may be used in certain areas. Check your local codes. Use pipe 1/2" diameter or greater to allow proper volume gas to heater. If pipe is too small, undue loss of pressure will occur.

Installation must include an equipment shutoff valve, union, and plugged 1/8" NPT tap. Locate NPT tap within reach for test gauge hook-up. NPT tap must be upstream from heater (see Figure 7).

**IMPORTANT:** Install equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance. Apply pipe joint sealant lightly to male threads. This will prevent excess sealant from going into pipe. Excess sealant in pipe could result in clogged heater valves.

**⚠ CAUTION:** Use pipe joint sealant that is resistant to gas (PROPANE or NG).

We recommend that you install a sediment trap in supply line as shown in Figure 7. Locate sediment trap where it is within reach for cleaning. Install in piping system between fuel supply and heater. Locate sediment trap where trapped matter is not likely to freeze. A sediment trap traps moisture and contaminants. This keeps them from going into heater controls. If sediment trap is not installed or is installed wrong, heater may not run properly.

**⚠ CAUTION:** Avoid damage to regulator. Hold gas regulator with wrench when connecting into gas piping and/or fittings.

## CHECKING GAS CONNECTIONS

**⚠ WARNING:** Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once.

**⚠ 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. Correct all leaks at once.

**⚠ CAUTION:** Make sure external regulator has been installed between gas supply and heater. See guidelines under *Connecting to Gas Supply*, pages 7 and 8.

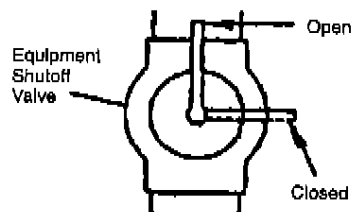


Figure 8. Equipment Shutoff Valve

## PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

### Test Pressure in Excess of 1/2 PSIG (3.5 kPa)

1. Disconnect heater with the appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressure in excess of 1/2 psig will damage heater regulator.
2. Cap off open end of gas pipe where equipment shutoff valve was connected.
3. Pressurize supply piping system by either using compressed air or opening gas supply tank valve.
4. Check all joints of gas supply piping system. Apply mixture of liquid soap and water to gas joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

## PRESSURE TESTING HEATER GAS CONNECTIONS

1. Close equipment shutoff valve (see Figure 8).
2. Open gas supply tank valve.
3. Make sure control knob of heater is in the OFF position.

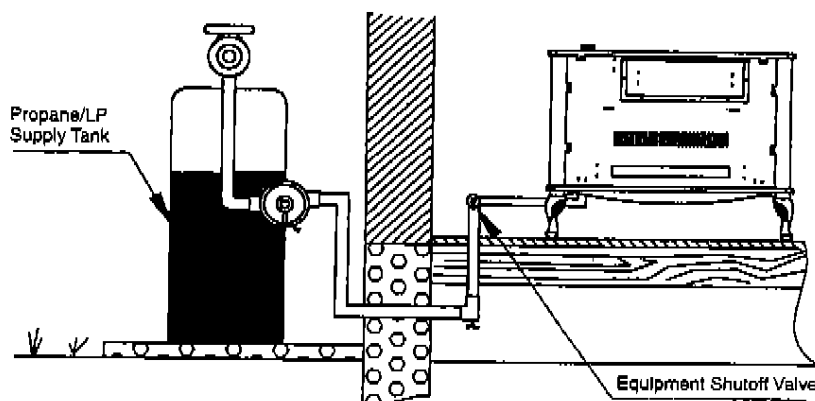


Figure 9.1. Checking Gas Joints





## OPERATING HEATER

### For Your Safety Read Before Lighting

**WARNING:** If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury, or loss of life.

- A. This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.
- B. **BEFORE LIGHTING**, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
 

**What to do if you smell gas**

  - Do not try to light any appliance.
  - Do not touch any electric 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.
- C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don't try to repair it. Call a qualified service technician or gas supplier. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been underwater. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been underwater.

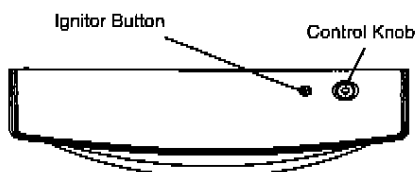




Figure 18. Control Knob and Ignitor Button Location

## LIGHTING INSTRUCTION

**NOTICE:** During initial operation of new heater, burning logs will give off a paper-burning smell. Orange flame will also be present. Open a window to vent smell. This will only last a few hours.

1. **STOP!** Read the safety information, page 18, column 1.
2. Make sure equipment shutoff valve is fully open.
3. Turn control knob clockwise  to the OFF position.
4. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information, page 11, column 1. If you don't smell gas, go to the next step.
5. Turn control knob counterclockwise  to the PILOT position. Press in control knob for five (5) seconds (see Figure 18).


**Note:** You may be running this heater for the first time after hooking up to gas supply. If so, the control knob may need to be pressed in for 30 seconds or less. This will allow air to bleed from the gas system.

6. With control knob pressed in, press and release ignitor button. This will light pilot. The pilot is attached to the front burner. If needed, keep pressing ignitor button until pilot lights.

**Note:** If pilot does not stay lit, contact a qualified service person or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see *Manual Lighting Procedure* page 12.

7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
  - If control knob does not pop out when released, contact a qualified service person or gas supplier for repairs.

**Note:** If pilot goes out, repeat steps 3 through 7. This heater has a safety interlock system. Wait one (1) minute for system to reset before lighting pilot again.

8. Turn control knob counterclockwise  to desired heating level. The burners should light. Set control knob to any heat level between HI and LO.

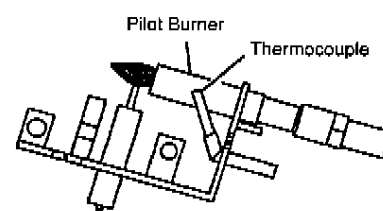



Figure 19. Pilot


**CAUTION:** Do not try to adjust heating levels by using the equipment shutoff valve.

## TO TURN OFF GAS TO APPLIANCE

### Shutting Off Heater

Turn control knob clockwise  to the OFF position.

### Shutting Off Burners Only (pilot stays lit)

Turn control knob clockwise  to the PILOT position.













**PARTS LIST**CGN300TQ  
CGL300TQ

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	BL016-01	Blower Mounting Plate	1
2	SL005-01	Blower Bracket	2
3	QL012-01	Top Panel	1
4	QL015-01	Control Knob Bracket	1
5	QL001-01	Body	1
6	QL005-01	Upper Reflector	1
7	QL014-01	Side Panel	2
8	QL018-01	Base Assembly	2
9	QL013-01	Pedestal	1
10	QL007-01	Firebox Floor	1
11	QL009-01	Lower Front Panel	1
12	QL004-01	Mid Louver	1
13	QL003-01	Upper Louver	1
14	QL002-01	Top Louver	1
15	QL006-01	Side Reflector	1
16	QL010-01	Bottom Brass Trim	1
17	QL008-01	Screen	1
18	QL011-01	Upper Brass Trim	1













