



VENT-FREE GAS LOG HEATER

MODELS
PCNSD18T
PCNSD24TD
PCNSD24M



⚠ 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.

- Do not store or use gasoline or other flammable vapors and liquids in the 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.

⚠ WARNING: This appliance is equipped for natural and propane gas. Field conversion is not permitted other than between natural or propane gases.



Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-866-573-0674, 8:00 am - 4:30 pm CST, Monday through Friday or email contact@usaprocom.com

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SAVE THIS BOOK

INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

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 6 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 propane or natural gas. Field conversion by any other means including the use of a kit is not permitted.

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

PROCOM HEATING, INC. PATENT INFORMATION

This product may be covered by one or more of the following United States patents:
9,829,195 9,423,123 9,441,833 9,518,732 9,752,779 9,416,977 8,764,436
8,568,136 8,516,878 8,297,968 8,281,781 8,235,708 7,967,006
7,967,007 7,730,765 7,677,236 7,607,426 7,434,447

SPECIFICATIONS

MODEL	PCNSD18T		PCNSD24TD & PCNSD24M	
Ignition	Electronic Piezo		Electronic Piezo	
Gas Type	Natural	Propane	Natural	Propane
Maximum Input Rating	30,000 BTU/Hr	30,000 BTU/Hr	32,000 BTU/Hr	32,000 BTU/Hr
Minimum Input Rating	20,000 BTU/Hr	22,000 BTU/Hr	21,000 BTU/Hr	23,000 BTU/Hr
Manifold Pressure	4" W.C.	9" W.C.	4" W.C.	9" W.C.
Inlet Gas Pressure* (inches of water)	Max. 9.5" W.C.	Max. 14" W.C.	Max. 9.5" W.C.	Max. 14" W.C.
	Min. 5" W.C.	Min. 11" W.C.	Min. 5" W.C.	Min. 11" W.C.

* For purposes of input adjustment.

SAFETY

⚠ WARNING: Do not attempt to access or change the setting of the fuel selection means.

Access to and adjustment of the fuel selection means must only be performed by a qualified service person when connecting this appliance to a specified fuel supply at the time of installation.

Change of the selector setting to other than the fuel type specified at the time of the installation could damage this appliance and render it inoperable.

The installer shall replace the access cover before completing the installation and operating this appliance.

IMPORTANT: Read this owner's manual carefully and completely before trying to assemble, operate, or service this heater. Improper use of this heater can cause serious injury or death from burns, fire, explosion, electrical shock and carbon monoxide poisoning. Failure to follow these instructions will void the warranty.

Only a qualified installer, service agent, or local gas supplier may install and service this product.

⚠ WARNING: Keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

⚠ WARNING: This appliance can be used with propane or natural gas. It is shipped from the factory adjusted for use with propane.

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.

⚠ DANGER: Carbon monoxide poisoning may lead to death!

Carbon Monoxide Poisoning: Early signs of carbon monoxide poisoning resemble the flu, with headaches, dizziness or nausea. If you have these signs, the heater may not be working properly. Get fresh air at once! Have heater serviced. Some people are more affected by carbon monoxide than others. These include pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol and those at high altitudes.

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

SAFETY

⚠️ WARNING: FIRE, EXPLOSION AND ASPHYXIATION HAZARD

Improper adjustment, alteration, service, maintenance, or installation of this heater or its controls can cause death or serious injury.

Read and follow instructions and precautions in User's Information Manual provided with this heater.

⚠️ WARNING: Do not use a blower insert, heat exchanger insert or any accessory not approved for use with this log set.

⚠️ WARNING: Do not allow fans to blow directly into the heater. Avoid any drafts that alter burner flame pattern including ceiling fans. Altered burner patterns can cause sooting.

⚠️ WARNING: Do not place clothing or other flammable material on or near the appliance. Never place any objects in the heater.

⚠️ WARNING: Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

⚠️ WARNING: Heater becomes very hot when running. Keep children and adults away from hot surfaces to avoid burns or clothing ignition. Heater will remain hot for a time after shutoff. Allow surfaces to cool before touching.

⚠️ WARNING: Carefully supervise young children when they are in the room with the heater.

⚠️ WARNING: Make sure a fire-place screen is in place before running heater.

1. Do not place propane supply tank(s) inside any structure. Propane supply tank(s) must be placed outdoors.
2. This heater should not be installed in a bedroom or bathroom unless installed as a vented appliance.
3. This heater needs fresh air ventilation to run properly. This heater has an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS shuts down the heater if not enough fresh air is available. See *Air for Combustion and Ventilation*, pages 6 through 8. If heater keeps shutting off, see *Troubleshooting*, page 24.
4. Do not add extra logs or ornaments such as pine cones, vermiculite, or rock wool. Using these added items can cause sooting. Do not add lava rock around base. Rock and debris could fall into the control area of heater. After servicing, always replace screen before operating heater.
5. If fireplace has glass doors, never operate this heater with glass doors closed. If you operate heater with doors closed, heat will build-up inside fireplace and cause glass to burst. If fireplace opening has vents at the bottom, you must open the vents before operating log set. Always operate heater with glass doors fully open.
6. This log heater is designed to be smokeless. If logs ever appear to be smoking, turn off heater and call a qualified service technician. *NOTE: During initial operating, slight smoking could occur due to log curing and heater burning off manufacturing residues.*
7. To prevent the creation of soot, follow the instructions under *Care and Maintenance* page 22.
8. Do not run heater:
 - Where flammable liquids or vapors are used or stored.
 - Under dusty conditions.
9. Before using furniture polish, wax, carpet cleaner, or similar products, turn heater off. If heated, the vapors from these products may create a white powder residue within burner box or on adjacent walls or furniture.

SAFETY

10. Do not use heater if any part has been under water. Immediately call a qualified service technician to inspect the room heater and to replace any part of the control system and any gas control which has been under water.
11. Turn off and unplug heater and let cool before servicing. Only a qualified service person should service and repair heater.
12. Operating heater above elevations of 4,500 feet could cause pilot outage.
13. Do not use this heater if any log is broken. Do not operate heater if a log is chipped (dime-size or larger).
14. To prevent performance problems, do not use propane fuel tank of less than 100 lbs. capacity.
15. Solid fuels should not be burned in fireplace in which a vent-free log set is installed. Do not use this heater to cook food or burn paper or other objects.

PRODUCT FEATURES

This log set has been tested and approved to ANSI Z21.11.2 standard for Unvented Heaters and can be operated with the flue damper closed. State and local codes in some areas prohibit the use of vent-free heaters.

SAFETY PILOT

This heater has a pilot with an Oxygen Depletion Sensing (ODS) safety shutoff system. The ODS/pilot shuts off the heater if there is not enough fresh air.

PIEZO IGNITION SYSTEM

This heater is equipped with an electronic piezo control system. This system requires AAA batteries (provided).

THERMOSTAT HEAT CONTROL

The control automatically cycles the burner on and off to maintain a desired room temperature.

2 GAS OPTIONS AVAILABLE

Your heater is equipped to operate on either propane or natural gas. The heater is shipped from the factory ready for connecting to propane. The heater can easily be changed to natural gas by having your qualified installer follow the instructions on page 12 and the markings on the heater.

LOCAL CODES

Install and use heater with care. Follow all local codes. In the absence of local codes, use the latest edition of *The National Fuel Gas Code, ANSI Z223.1/NFPA 54**.

*Available from:

American National Standards Institute, Inc.
1430 Broadway
New York, NY 10018

National Fire Protection Association, Inc.
1 Batterymarch Park
Quincy, MA 02269-9101

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

Sellers of unvented propane or natural gas-fired supplemental room heaters shall provide to each purchaser a copy of 527 CMR 30 upon sale of the unit.

In the State of Massachusetts the gas cock must be a T-handle type. The State of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

UNPACKING

⚠ CAUTION: Do not remove the metal data plates from the burner pan. The data plates contain important product information.

1. Remove logs and burner base assembly from carton. *NOTE: Do not pick up burner base assembly by burners as this could damage heater. Always handle base assembly by grate.*
2. Remove all protective packaging applied to logs and base for shipment.
3. Check all items for any shipping damage. If damaged, promptly inform dealer where you purchased the heater.

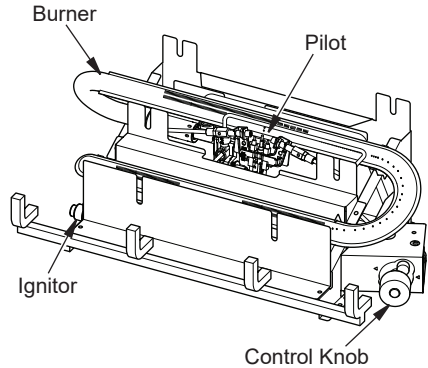


Figure 1 - Product Identification

QUALIFIED INSTALLING AGENCY

Only a qualified agency should install and replace gas piping, gas utilization equipment or accessories, and repair and equipment servicing. The term “qualified agency” means any individual, firm, corporation, or company that either in person or through a representative is engaged in and is responsible for:

- a) Installing, testing, or replacing gas piping or
- b) Connecting, installing, testing, repairing, or servicing equipment; that is experienced

in such work; that is familiar with all precautions required; and that has complied with all the requirement of the authority having jurisdiction.

In areas that prohibit the use of vent-free heaters, the log set has been tested and approved to the ANSI Z21.60 standard for Vented Decorative Logs. When used as a vented log set refer to additional instructions on page 11.

WATER VAPOR: A BY-PRODUCT OF UNVENTED ROOM HEATERS

Water vapor is a by-product of gas combustion. An unvented room heater produces approximately one (1) ounce (30 mL) of water for every 1,000 BTUs (0.3 KWs) of gas input per hour. Unvented room heaters are recommended as supplemental heat (a room) rather than a primary heat source (an entire house). In most supplemental heat applications, the water vapor does not create a problem. In most applications, the water vapor enhances the low humidity atmosphere experienced during cold weather.

The following steps will help ensure that water vapor does not become a problem.

1. Be sure the heater is sized properly for the application, including ample combustion air and circulation air.
2. If high humidity is experienced, a dehumidifier may be used to help lower the water vapor content of the air.
3. Do not use an unvented room heater as the primary heat source.

AIR FOR COMBUSTION AND VENTILATION

⚠ WARNING: This heater shall not be installed in a confined space or unusually tight construction unless provisions are provided for adequate combustion and ventilation air. Read the following instructions to insure proper fresh air for this and other fuel-burning appliances in your home.

AIR FOR COMBUSTION AND VENTILATION

Today's homes are built more energy efficient than ever. New materials, increased insulation and new construction methods help reduce heat loss in homes. Home owners weather strip and caulk around windows and doors to keep the cold air out and the warm air in. During heating months, home owners want their homes as airtight as possible.

While it is good to make your home energy efficient, your home needs to breathe. Fresh air must enter your home. All fuel-burning appliances need fresh air for proper combustion and ventilation.

Exhaust fans, fireplaces, clothes dryers and fuel burning appliances draw air from the house to operate. You must provide adequate fresh air for these appliances. This will insure proper venting of vented fuel-burning appliances.

⚠ WARNING: This heater shall not be installed in a room or space unless the required volume of indoor combustion air is provided by the method described in the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, the *International Fuel Gas Code*, or applicable local codes.

⚠ WARNING: If the area in which the heater may be operated is smaller than that defined as an unconfined space or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, the *International Fuel Gas Code*, or applicable local codes.

VENTILATION AIR

Ventilation Air From Inside Building

This fresh air would come from an adjoining unconfined space. When ventilating to an adjoining unconfined space, you must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor on the wall connecting the two spaces (see options 1 and 2, Figure 2). You can also remove door

into adjoining room (see option 3, Figure 2). Follow the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

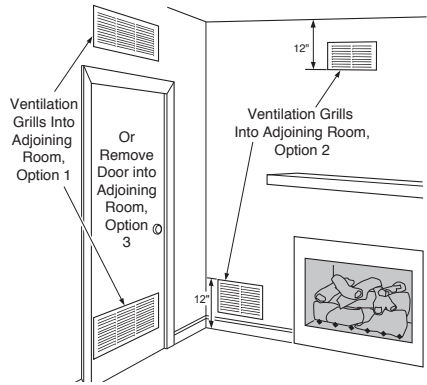


Figure 2 - Ventilation Air from Inside Building

Ventilation Air From Outdoors

Provide extra fresh air by using ventilation grills or ducts. You must provide two permanent openings: one within 12" of the ceiling and one within 12" of the floor. Connect these items directly to the outdoors or spaces open to the outdoors. These spaces include attics and crawl spaces. Follow the *National Fuel Gas Code, ANSI Z223.1/NFPA 54, Air for Combustion and Ventilation* for required size of ventilation grills or ducts.

IMPORTANT: Do not provide openings for inlet or outlet air into attic if attic has a thermostat-controlled power vent. Heated air entering the attic will activate the power vent. Rework worksheet, adding the space of the adjoining unconfined space. The combined spaces must have enough fresh air to supply all appliances in both spaces.

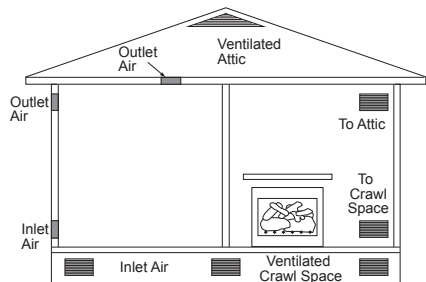


Figure 3 - Ventilation Air from Outdoors

INSTALLATION

NOTICE: This heater is intended for use as supplemental heat. Use this heater along with your primary heating system. Do not install this heater as your primary heat source. If you have a central heating system, you may run system's circulating blower while using heater. This will help circulate the heat throughout the house. In the event of a power outage, you can use this heater as your primary heat source.

⚠ WARNING: A qualified service person must install heater. Follow all local codes.

⚠ WARNING: Before installing in a solid fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, ashes and loose paint by a qualified chimney cleaner. Creosote will ignite if highly heated. A dirty chimney flue may create and distribute soot within the house. Inspect chimney flue and firebox for damage. If damaged, repair flue before operating heater.

⚠ WARNING: Seal any fresh air vents or ash clean-out doors located on floor or wall of fireplace. If not, drafting may cause pilot outage or sooting. Use a heat-resistant sealant. Do not seal chimney flue damper.

⚠ WARNING: Never install the heater

- in a bedroom or bathroom
- in a recreational vehicle
- where curtains, furniture, clothing, or other flammable objects are less than 36" from the front, 42" from top, or 16" from sides of the heater.
- in high traffic areas
- in windy or drafty areas

⚠ CAUTION: This heater creates warm air currents. These currents move heat to wall surfaces next to heater. Installing heater next to vinyl or cloth wall coverings or operating heater where impurities (such as tobacco smoke, aromatic candles, cleaning fluids, oil or kerosene lamps, etc.) in the air exist, may discolor walls or cause odors.

NOTICE: State or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes.

⚠ WARNING: This appliance is designed for installation in only a solid-fuel burning masonry or UL 127 factory-built fireplace or in a listed ventless firebox enclosure. Exception: **DO NOT** install this appliance in a factory-built fireplace that includes instructions stating it has not been tested or should not be used with unvented gas logs.

INSTALLATION

IMPORTANT: Vent-free heaters add moisture to the air. Although this is beneficial, installing heater in rooms without enough ventilation air may cause mildew to form too much moisture. See *Air for Combustion and Ventilation*, pages 6 and 7.

Before beginning assembly or operation of the product, make sure all parts are present. Compare parts with package contents list. If any part is missing or damaged, do not attempt to assemble, install or operate the product. Contact customer service for replacement parts.

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

- Hardware package (provided with heater)
- Electric drill with 3/16" drill bit
- Phillips screwdriver

CHECK GAS TYPE

Be sure your gas supply is right for your heater. Otherwise, call dealer where you bought the heater for proper type heater.

CLEARANCES TO COMBUSTIBLES

⚠ WARNING: Maintain the minimum clearances. If possible, provide greater clearances from floor, ceiling, and adjoining wall. Measure from outermost point of heater.

Minimum Fireplace Clearance To Combustible Materials

Side Wall 16", Ceiling 42", Front 36"

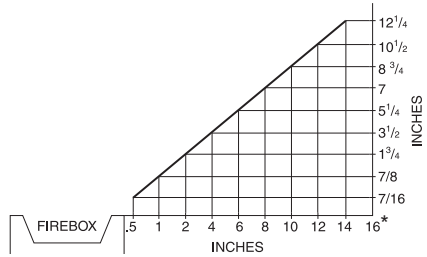
LOG SIZING REQUIREMENTS Minimum Firebox Size

18" Log Set: Height 20", Depth 13", Front Width 29", Rear Width 23"

24" Log Set: Height 20", Depth 14", Front Width 30", Rear Width 24"

Minimum Clearances For Side Combustible Material, Side Wall and Ceiling

- A. Clearance from the side of the fireplace cabinet to any combustible material and wall should follow diagram in Figure 4.
- B. Clearance from the top of the fireplace opening to the ceiling must not be less than 42".



*Minimum 16" from Side Wall

Figure 4 - Minimum Clearance for Combustible to Wall

Minimum Noncombustible Material Clearances

If Not Using Mantel

Note: If using a mantel, proceed to If Using Mantel, page 10. If not using a mantel, follow the information below.

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal, you must have noncombustible material behind it. Noncombustible material must extend at least 12" up (for all models). See Figure 5 for minimum clearances.

Requirements for Safe Installation

(A) 12" or more: Noncombustible material OK.

(A) Between 8" and 12":

Install fireplace hood accessory.

(A) Less than 8": Noncombustible material must be extended to at least 8".

See *Between 8" and 12"*, above. If you cannot extend material, you must operate heater with flue damper open.

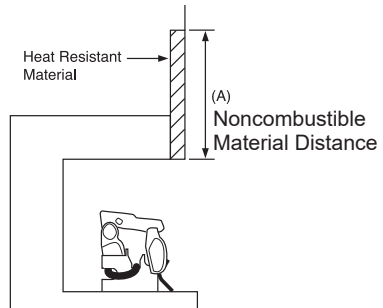


Figure 5 - Heat Resistant Material (Slate, Marble, Tile, etc.) Above Fireplace

INSTALLATION

NOTICE: This heater may be used as a vented product. If so, you must always operate log set with chimney flue damper open. If running log set with damper open, noncombustible material above fireplace opening is not needed. Go to [Installing Damper Clamp Accessory for Vented Operation](#), page 11.

If Using Mantel

You must have noncombustible material(s) above the fireplace opening. Noncombustible materials (such as slate, marble, tile, etc.) must be at least 1/2" thick. With sheet metal,

you must have noncombustible material behind it. Noncombustible material must extend at least 8" up. If noncombustible material is less than 12", you must install the fireplace hood accessory. Even if noncombustible material is more than 12", you may need the hood accessory to deflect heat away from your mantel shelf. See Figures 5, 6 and 7, for minimum clearances.

MANTEL CLEARANCES

In addition to meeting noncombustible material clearances, you must also meet required clearances between fireplace opening and mantel shelf. If you do not meet the clearances listed below, you will need a hood.

Determining Minimum Mantel Clearance

If you meet minimum clearance between mantel shelf and top of fireplace opening, a hood is not required (see Figure 6).

Determining Minimum Mantel Clearance When Using a Hood

If minimum clearances in Figure 6 are not met, you must have a hood. When using a hood there are still certain minimum mantel clearances required. Follow minimum clearances shown in Figure 7, when using hood.

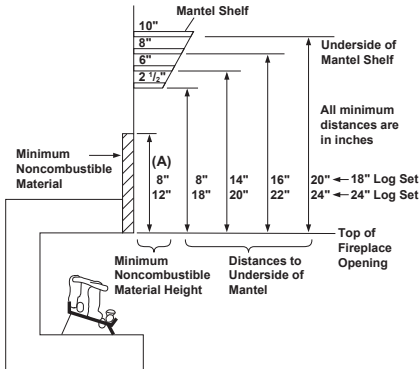


Figure 6 - Minimum Mantel Clearances Without Using Hood

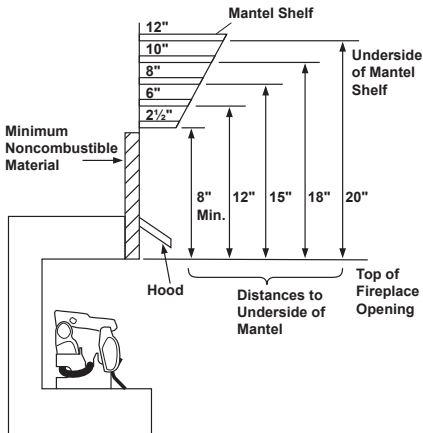


Figure 7 - Minimum Mantel Clearances When Using Hood

NOTICE: Surface temperatures of adjacent walls and mantels above the firebox may become hot to the touch. If installed properly, these temperatures meet the requirement of the national product standard. Follow all minimum clearances shown in this manual.

NOTICE: If your installation does not meet the minimum clearances shown, you must do one of the following:

- operate the logs only with the flue damper open
- raise the mantel to an acceptable height
- move the mantel

INSTALLATION

FLOOR CLEARANCES

A. If installing appliance on the floor level, you must maintain the minimum distance of 14" to combustibles (see Figure 8).

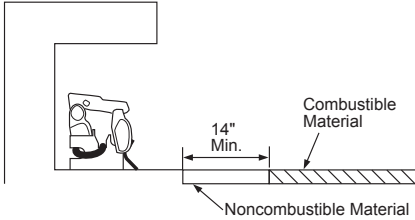


Figure 8 - Minimum Fireplace Clearances if Installed at Floor Level

B. If combustible materials are less than 14" to the fireplace, you must install appliance at least 5" above the combustible flooring (see Figure 9).

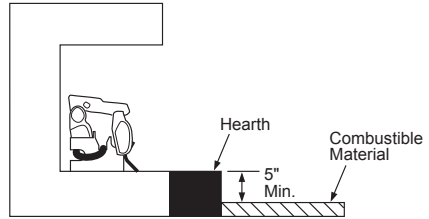


Figure 9 - Minimum Fireplace Clearances Above Combustible Flooring

INSTALLING DAMPER CLAMP ACCESSORY FOR VENTED OPERATION

When used as a vented heater, appliance must be installed only in a solid-fuel burning fireplace with a working flue constructed of noncombustible material. You may use this heater as a vented product. There are three reasons for operating your heater as a vented model:

1. The fireplace does not meet the clearance requirements for vent-free operation.
2. State or local codes do not permit vent-free operation.
3. You prefer vented operation.

If reasons number 1 or 2 above apply, you must permanently open chimney flue damper. You must install the damper clamp accessory (not provided). This will insure vented operation (see Figure 10). The damper clamp will keep damper open. Installation instructions are included with clamp accessory.

See chart below for the minimum permanent flue opening you must provide. Attach damper clamp so the minimum permanent opening will be maintained at all times.

Chimney Height	Minimum Permanent Flue Opening
6' to 15'	39 sq inches
15' to 30'	29 sq inches

Area of Various Standard Round Flues	
Diameter	Area
5"	20 sq inches
6"	29 sq inches
7"	39 sq inches
8"	51 sq inches

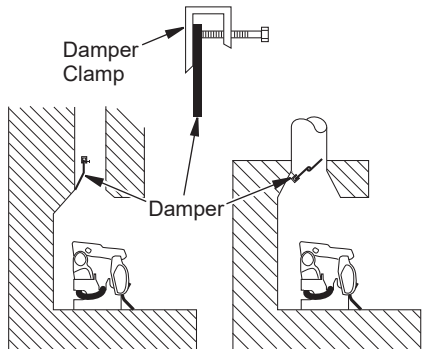


Figure 10 - Attaching Damper to Fireplace

INSTALLATION

GAS SELECTION

This appliance is factory preset for propane gas. No changes are required for connecting to propane. Only a qualified installer or service technician can perform gas selection and connecting to gas supply.

CAUTION: Two gas line installations at the same time are prohibited.

CAUTION: To avoid gas leakage for the gas not being used at the inlet of regulator, a qualified installer or service technician must use supplied cap.

You will notice a color coded plunger on the inside of the regulator. This is normal. When the inlet connection fitting is inserted and tightened, this plunger will be pushed back by the fitting making all of the adjustments for the gas being supplied. **DO NOT REMOVE THE PLUNGER.** The regulator will not work and the warranty will be voided.

The inlet regulator is color coded for identification of the correct gas type. Blue is for propane (LP gas) and yellow is for natural gas.

Yellow Natural Gas Plunger Underneath Metal Cap
Blue Propane Gas Plunger **DO NOT REMOVE!**

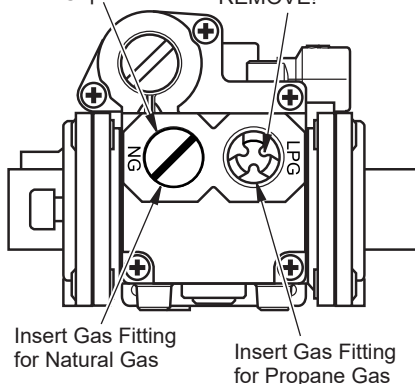


Figure 11 - Gas Regulator

FOR PROPANE GAS INSTALLATION: BLUE

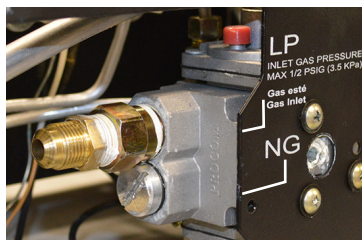
Apply thread sealant to the threads on a 3/8" NPT brass connection fitting. While pushing in, rotate the fitting clockwise until the threads engage the regulator. After the fitting has been hand tightened into the regulator use a wrench to complete tightening of the fitting. Install additional fitting to connect to the house supply.



DO NOT REMOVE
Blue Propane Plunger
Install Gas Fitting Here



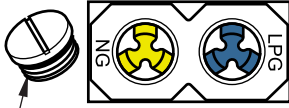
Fitting supplied by installer, may vary.



INSTALLATION

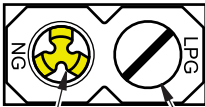
FOR NATURAL GAS INSTALLATION: YELLOW

1. Remove the metal cap installed over the NG regulator inlet.



Metal Cap

2. Install metal cap over propane regulator inlet. This will keep debris out of regulator.



DO NOT REMOVE
Yellow Natural Gas Plunger
Install Gas Fitting Here

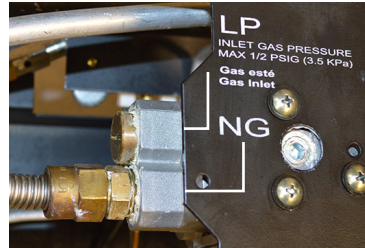
Metal Cap

Use only the cap supplied on the regulator. Do not use an off the shelf pipe plug. This can damage the plunger. The supplied regulator cap is designed so it will not engage the unused gas type.

3. Apply thread sealant to the threads on the connection fitting. While pushing in, rotate the fitting clockwise until the threads engage the regulator. After the fitting has been hand tightened into the regulator use a wrench to complete tightening of the fitting. Install additional fitting to connect to the house supply.



Fitting supplied by installer, may vary.



Use only the metal cap. DO NOT use an off the shelf 3/8" NPT pipe cap. This will damage the plungers located inside the regulator.

DO NOT TRY TO REMOVE THE PLUNGERS FROM INSIDE THE REGULATOR. THE PLUNGER WILL BE PUSHED BACK AS THE FITTING IS INSTALLED. REMOVING THE PLUNGERS WILL VOID THE WARRANTY.

Make sure the type of gas being used is correct. Check to make sure the connection fitting is in the correct inlet on the regulator. Refer to Connecting to Gas Supply, page 15.

If you are using natural gas and the pilot will not light, see Troubleshooting, page 24.

INSTALLATION

BATTERY INSTRUCTIONS

⚠ CAUTION: Do not dispose of batteries in fire, batteries may explode or leak.

- Batteries are included.
- Remove batteries when depleted.
- Be sure to observe proper polarity (+/-) when installing or replacing the batteries. Damage due to improper battery installation may void the warranty on the product.
- For long periods of non-operation, remove batteries from all components for safety.

Unscrew ignitor cap and install a AAA battery with the + pointing out. Replace cap.

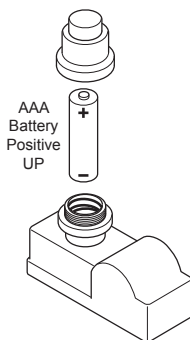


Figure 12 - Installing Battery in Ignitor

INSTALLING HEATER BASE ASSEMBLY

⚠ WARNING: You must secure this heater to fireplace floor. If not, heater will move when you adjust controls. Moving heater may cause a gas leak.

⚠ WARNING: If installing in a sunken fireplace, special care is needed. You must raise the fireplace floor to allow access to heater control panel. This will insure adequate air flow and guard against sooting and controls being damaged. Raise fireplace floor with noncombustible material. Make sure material is secure.

⚠ CAUTION: Do not pick up heater base assembly by burners. This could damage heater. Only handle base assembly by grates.

IMPORTANT: Make sure the heater burners are level. If heater is not level, heater will not work properly.

Installation Items Needed

- hardware package (provided with heater)
 - electric drill with 3/16" masonry drill bit
1. Position heater base assembly in fireplace. Center base assembly left to right and front to back inside fireplace.

2. Mark screw locations through holes in mounting brackets (see Figure 13). If installing in a brick-bottom fireplace, mark screw locations in mortar joint of bricks.
3. Remove heater base from fireplace.
4. Drill holes at marked locations using 3/16" drill bit.
5. Apply pipe joint sealant lightly to fitting threads. Connect approved flexible gas hose to gas regulator of heater (see Figure 13). *Note: Never apply pipe sealant to flare fitting threads. Hold gas regulator with a wrench when connecting flexible gas hose.*
6. Attach base assembly to fireplace floor using two masonry screws provided in hardware package (see Figure 13).
7. Connect to gas supply. See [Connecting To Gas Supply](#), page 15.

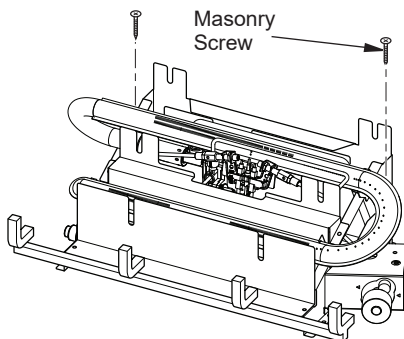


Figure 13 - Attaching Heater Base to Fireplace Floor

INSTALLATION

CONNECTING TO GAS SUPPLY

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

⚠ WARNING: This appliance requires a 3/8" NPT (National Pipe Thread) inlet connection to the pressure regulator.

⚠ WARNING: Do not over-tighten gas connections.

⚠ WARNING: For natural gas, Never connect heater to private (non-utility) gas wells. This gas is commonly known as wellhead gas.

⚠ CAUTION: For propane gas, never connect heater directly to the gas supply. This heater requires an external regulator (not supplied). Install the external regulator between the heater and propane supply. Gas supplier provides external regulator for natural gas. The installer provides the external regulator for propane gas.

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

⚠ CAUTION: For natural gas, check your gas line pressure before connecting heater to gas line. Gas line pressure must be no greater than 9.5" WC. If gas line pressure is higher, heater regulator damage could occur.

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

⚠ CAUTION: Use pipe joint sealant that is resistant to gas (Propane or Natural Gas).

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

- external regulator for propane unit only (supplied by installer)
- piping (check local codes)
- sealant (resistant to natural gas and propane gas)
- equipment shutoff valve*
- test gauge connection*
- sediment trap
- tee joint
- pipe wrench
- flexible gas hose (check local codes)
- 3/8" NPT brass fitting

* 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.

INSTALLATION

Typical Inlet Pipe Diameters

Use 1/2" black iron pipe or greater. 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 15).

IMPORTANT: Install an equipment shutoff valve in an accessible location. The equipment shutoff valve is for turning on or shutting off the gas to the appliance.

For propane installations, 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.

The installer must supply an external regulator. The external regulator will reduce incoming gas pressure. You must reduce incoming gas pressure to between 11" WC and 14" WC. 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 16. Pointing the vent down protects it from freezing rain or sleet.

Install sediment trap in supply line as shown in Figure 15. Place sediment trap where there is within reach for cleaning. Place 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.

⚠ WARNING: Test all gas piping and connections for leaks after installing or servicing. Correct all leaks at once (see page 17).

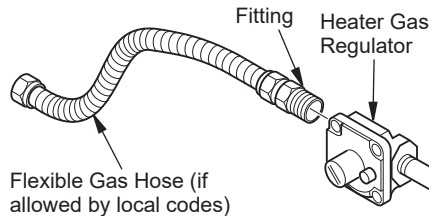


Figure 14 - Attaching Flexible Gas Hose to Heater Gas Regulator

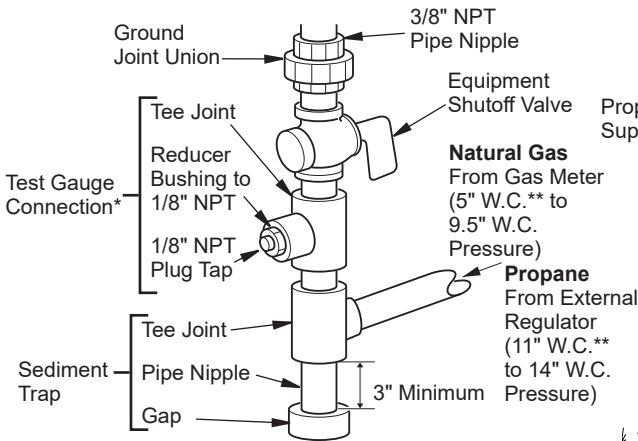


Figure 15 - Gas Connection

* Purchase the optional CSA design-certified equipment shutoff valve from your dealer.

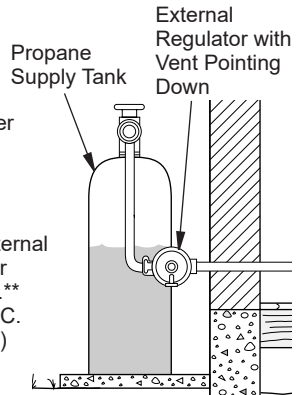


Figure 16 - External Regulator with Vent Pointing Down

INSTALLATION

CHECKING GAS CONNECTIONS

⚠ WARNING: Test all gas piping and connections, internal and external to unit, for leaks after installing or servicing. Correct all leaks at once.

⚠ WARNING: Never use an open flame to check for a leak. Apply a noncorrosive leak detection fluid to all joints. If bubbles form, there is a leak. Correct all leaks at once.

PRESSURE TESTING GAS SUPPLY PIPING SYSTEM

Test Pressures In Excess Of 1/2 PSIG (3.5 kPa)

1. Disconnect heater with its appliance main gas valve (control valve) and equipment shutoff valve from gas supply piping system. Pressures 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 opening propane supply tank valve for propane gas or opening main gas valve located on or near gas meter for natural gas or using compressed air.
4. Check all joints of gas supply piping system. Apply noncorrosive leak detection fluid to all joints. If bubbles form, there may be a leak.
5. Correct all leaks at once.
6. Reconnect heater and equipment shutoff valve to gas supply. Check reconnected fittings for leaks.

Test Pressures Equal To or Less Than 1/2 PSIG (3.5 kPa)

1. Close equipment shutoff valve (see Figure 17).
2. Pressurize supply piping system by either opening propane supply tank valve for propane gas or opening main gas meter for natural gas or using compressed air.

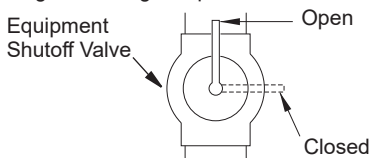


Figure 17 - Equipment Shutoff Valve

3. Check all joints from gas meter to equipment shutoff valve for natural gas or propane supply to equipment shutoff valve for propane (see Figure 18 or 19). Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
4. Correct all leaks at once.

PRESSURE TESTING HEATER GAS CONNECTIONS

1. Open equipment shutoff valve (see Figure 17).
2. Open main gas valve located on or near gas meter for natural gas or open propane supply tank valve.
3. Make sure control knob of heater is in the OFF position.
4. Check all joints from equipment shutoff valve to control valve (see Figure 18 or 19). Apply a noncorrosive leak detection fluid to all joints. Bubbles forming show a leak.
5. Correct all leaks at once.
6. Light heater (see [Lighting Instructions](#) on page 19). Check all other internal joints for leaks.
7. Turn off heater (see [To Turn Off Gas Appliance](#), page 20).

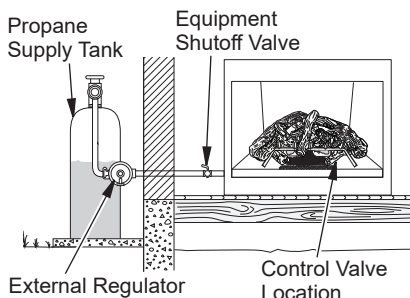


Figure 18 - Checking Gas Joints for Propane Gas

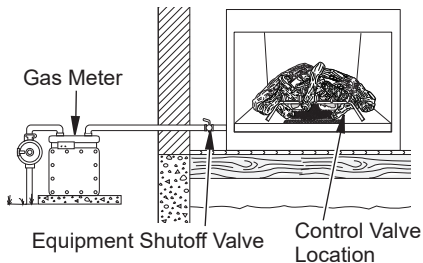


Figure 19 - Checking Gas Joints for Natural Gas

INSTALLATION

INSTALLING LOGS

⚠ WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this heater may result in property damage or personal injury.

⚠ CAUTION: After installation and periodically thereafter, check to ensure that no yellow flame comes in contact with any log. With the heater set to High, check to see if yellow flames contact any log. If so, reposition logs according to the log installation instructions in this manual. Yellow flames contacting logs will create soot.

It is very important to install the logs exactly as instructed. Do not modify logs. Use only logs supplied with heater.

Each log is marked with a number. This number will help you to identify the logs when installing.

After installing logs, add decorative cinders around the grate base, do not place any decorative cinders on logs or burner.

Model PCNSD18T Log Placement:

1. Insert log #1 into slots in rear log bracket on grate base as shown in Figure 20.
2. Insert log #2 into slots in middle grate bracket as shown in Figure 20.
3. Insert logs #3 and #4 into slots in front grate bracket as shown in Figure 20.
4. Place logs #5, #6 and #7 as shown in Figure 21.

Model PCNSD24TD and PCNSD24M log sets have a different appearance, but install the same. See Figure 22a and 22b.

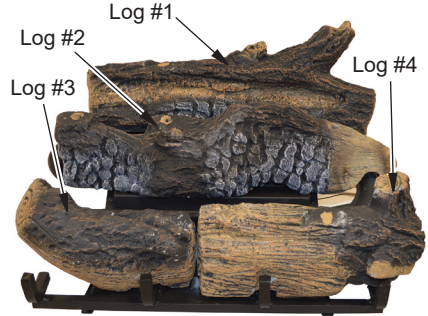


Figure 20 - Installing Logs #1 through #4

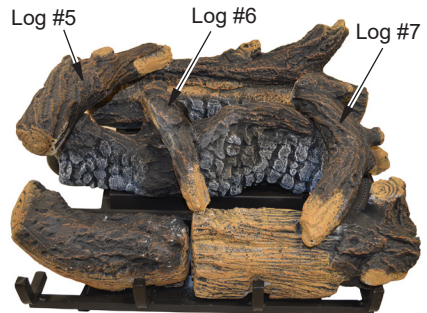


Figure 21 - Installing Log #5, #6 and #7



Figure 22a - Installing Logs #1 through #4

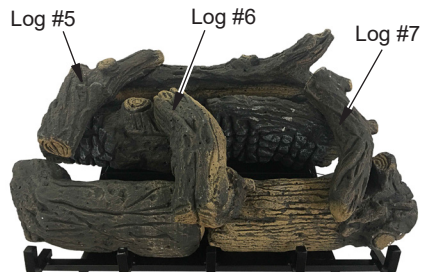


Figure 22b - Installing Log #5, #6 and #7

OPERATION

Avoid any drafts that alter burner flame patterns. Do not allow fans to blow directly into the fireplace. Do not place a blower inside the burn area of the firebox. Ceiling fans may create drafts that alter flame patterns. Sooting and improper burning will result.

During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These chemicals are not harmful but may produce annoying smoke and smells as they are burned off during the initial operation of the appliance, possibly causing headaches or eye or lung irritation. This is a normal and temporary occurrence.

The initial break-in operation should last two to three hours with the burner at the highest setting. Provide maximum ventilation by opening windows or doors to allow odors to dissipate. Any odors remaining after this initial break-in will be slight and will disappear with continued use.

This appliance must not be used with glass doors in the closed position. This can lead to pilot outages and severe sooting outside the fireplace.

Always operate heater with glass doors fully open.

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. Force or attempted repair may result in a fire or explosion.
- D. Do not use this appliance if any part has been under water. 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 under water.


LIGHTING INSTRUCTIONS

⚠ WARNING: You must operate this heater with the screen in place. Make sure screen is installed before running heater.

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

1. STOP! Read the safety information above.
2. Make sure equipment shutoff valve is fully open.
3. Push in control knob slightly and turn clockwise  to the OFF position.
4. Wait five (5) minutes to clear out any gas. Then smell for gas around heater and near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.

OPERATION


5. Push in control knob slightly and turn counterclockwise  to the PILOT position. Press in control knob for five (5) seconds.

Note: The first time that the heater is operated after connecting the gas supply, the control knob should be pressed for about thirty (30) seconds. This will allow air to bleed from the gas system. If pilot does not stay lit, refer to [Troubleshooting](#), pages 24 through 27. Also contact a qualified service technician or gas supplier for repairs. Until repairs are made, light pilot with match.

- If control knob does not pop up when released, contact a qualified service technician or gas supplier for repairs.

6. With control knob pressed in, push down and release ignitor button. This will light pilot. The pilot is attached to the rear of the burner. If needed, keep pressing ignitor button until pilot lights. *Note: If pilot does not stay lit, refer to [Troubleshooting](#), pages 24 through 27. Also contact a qualified service technician or gas supplier for repairs. Until repairs are made, light pilot with match. To light pilot with match, see [Manual Lighting Procedure](#), page 21.*
7. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.

Note: If pilot goes out, repeat steps 7 through 10. This heater has a safety interlock system. Wait one (1) minute before lighting pilot again.

8. Turn control knob counterclockwise  to the ON position. The main burner should light. Set control knob to the desired heating level.

Note: Please wait one minute after shutting off heater to allow the control valve to reset before starting again.

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

⚠ WARNING: If input gas type is NG, make sure NG pilot burner ignites. If input gas type is LP, make sure LP pilot burner ignites.

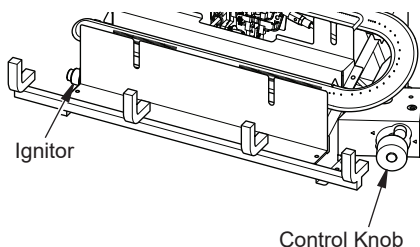


Figure 23 - Ignitor Button and Control Knob Locations

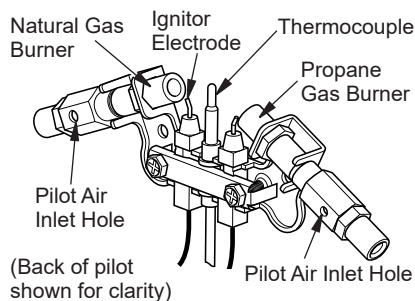




Figure 24 - Pilot Assembly

TO TURN OFF GAS TO APPLIANCE

Shutting Off Heater

Turn control knob clockwise  to the OFF position.

Shutting Off Burner Only (pilot stays lit)

Turn control knob clockwise  to the PILOT position.

OPERATION

THERMOSTATIC CONTROL OPERATION

Models PCNSD18T and PCNSD24TD Only

The thermostatic control used on this model differs from standard thermostats. Standard thermostats simply turn the burner on and off. The thermostat used on this heater senses the room temperature. At times the room may exceed the set temperature. If so, the burner will shut off. The burner will cycle back on

when room temperature drops below the set temperature. The control knob can be set to any comfort level.

Note: The thermostat sensing bulb measures the temperature depending on housing construction.

MANUAL LIGHTING PROCEDURE

1. Follow steps 1 through 7 under Lighting Instructions, page 19 and 20.
2. With control knob in PILOT position, strike match, and hold near pilot. Press in control knob; pilot should light.
3. Keep control knob pressed in for 30 seconds after lighting pilot. After 30 seconds, release control knob.
4. Make sure the heater screen is in place before operating heater.

INSPECTING BURNERS

IMPORTANT: Owner's should check pilot flame pattern and burner flame pattern often. Incorrect flame patterns indicate the need for cleaning (see Care and Maintenance, page 22) or service.

⚠ WARNING: Only a qualified service person should service and repair heater. This includes maintenance requiring replacement or alteration of components.

PILOT FLAME PATTERN

Figure 25 shows a correct pilot flame pattern. Figure 26 shows an incorrect pilot flame pattern. The incorrect pilot flame is not touching the thermocouple. This will cause the thermocouple to cool, which shuts the heater off. If pilot flame pattern is incorrect, as shown in Figure 26

- turn heater off (see To Turn Off Gas to Appliance, page 20)
- see Troubleshooting pages 24 through 27.

⚠ WARNING: If yellow tipping occurs, your heater could produce increased levels of carbon monoxide. If the burner flame pattern shows yellow tipping, follow instructions at bottom of this page.

Notice: Do not mistake orange flames with yellow tipping. Dirt or other fine particles enter the heater and burn causing brief patches of orange flame.

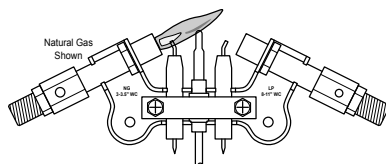


Figure 25 - Correct Pilot Flame Pattern (Natural Gas shown)

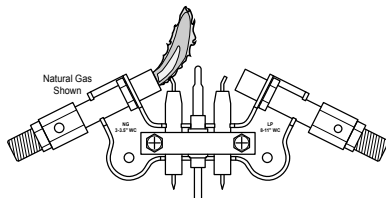


Figure 26 - Incorrect Pilot Flame Pattern (Natural Gas shown)

INSPECTING BURNERS

BURNER FLAME PATTERN

Figure 27 shows a correct burner flame pattern. Figure 28 shows an incorrect burner flame pattern. If burner flame pattern is incorrect then:

- turn heater off (see [To Turn Off Gas to Appliance](#), page 20).
- see [Troubleshooting](#) pages 24 through 27.

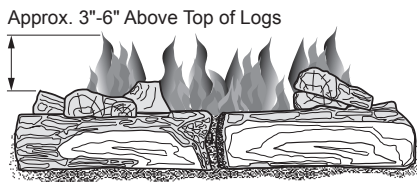


Figure 27 - Correct Burner Flame Pattern

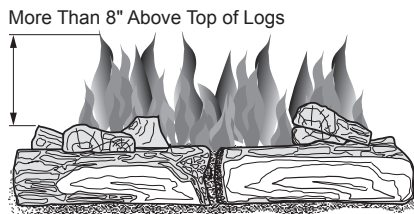


Figure 28 - Incorrect Burner Flame Pattern

BURNER PRIMARY AIR HOLES

Air is drawn into the burner through the holes in the fitting at the entrance to the burner. These holes may become blocked with dust or lint. Periodically inspect these holes for any blockage and clean as necessary. Blocked air holes will create soot.

CARE AND MAINTENANCE

⚠ WARNING: Turn off heater and let cool before servicing.

⚠ CAUTION: You must keep control areas, burner, and circulating air passageways of 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.

⚠ WARNING: Failure to keep the primary air opening(s) of the burner(s) clean may result in sooting and property damage.

MAIN BURNER

Periodically inspect all burner flame holes with the heater running. All slotted burner flame holes should be open with yellow flame present. All round burner flame holes should be open with a small blue flame present. Some

burner flame holes may become blocked by debris or rust, with no flame present. If so, turn off the heater and let it cool, and remove blockage or replace burner. Blocked burner flame holes will create soot.

CARE AND MAINTENANCE

BURNER INJECTOR HOLDER AND 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, pilot and primary air inlet holes on injector for dust and dirt (see Figure 29).
3. Blow air through the ports/slots and holes in the burner. Also clean the pilot assembly.

4. Check the injector holder located at the end of the burner tube again. Remove any large particles of dust, dirt, lint, or pet hair with a soft cloth or vacuum cleaner nozzle.
5. Blow air into the primary air holes on the injector holder.
6. In case any large clumps of dust have now been pushed into the burner. Repeat steps 3 and 4.

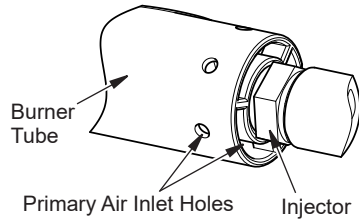


Figure 29 - Burner and Injector Holder

ODS/PILOT

CAUTION: Never use a wire, needle, or similar object to clean ODS/pilot. This can damage ODS/pilot unit.

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

A yellow tip on the pilot flame indicates dust and dirt in the pilot assembly. There is a small pilot air inlet hole about 2" from where the pilot flame comes out of the pilot assembly (see Figure 30). 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.

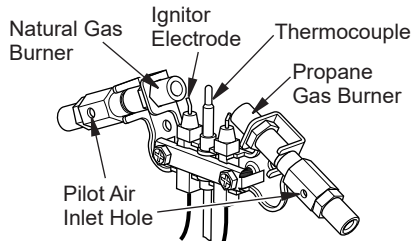


Figure 30 - Pilot Inlet Air Hole

LOGS

- If you remove logs for cleaning, refer to *Installing Logs*, page 18, to properly replace logs.
- Replace log(s) if broken or chipped (dime-size or larger).

TROUBLESHOOTING

⚠ WARNING: If you smell gas:

- 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.

⚠ WARNING: Only a qualified service technician should service and repair heater. Make sure that power is turned off before proceeding. Turn off and let cool before servicing.

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.

Note: All troubleshooting items are listed in order of operation.

Problem	Possible Cause	Corrective Action
Using natural gas and pilot will not light.	Inlet pressure exceeds 9.5" WC.	Bypass pressure switch. See instructions below.

Pressure Switch

When using natural gas, there is a pressure switch that acts to turn off the gas flow to the pilot if the inlet pressure exceeds 9.5" WC. This is to prevent the operation of the unit on the wrong gas (propane). If your natural gas supply exceeds 9.5" WC the unit will not operate. Either contact your gas supplier to check and adjust the inlet pressure or a qualified service technician can bypass the pressure switch.

Before attempting to bypass the pressure switch, make sure the type of gas being used is correct. Check to make sure the connection fitting is in the correct inlet on the regulator. Refer to *Connecting to Gas Supply*, page 15.

Only a qualified installer should bypass the pressure switch. To bypass the pressure switch locate the set screw on the regulator. Use a small flat bladed screw driver to turn the set screw counterclockwise 2 turns. This will bypass the pressure switch function.

The entire gas delivery piping including connections inside the heater should be leak tested by the qualified installer. After leak testing the qualified installer should light the appliance. Refer to the correct flame pattern as illustrated on pages 21 and 22. All flame patterns should be safely inside the product. If for any reason they are not, stop use of the appliance and call for repairs.

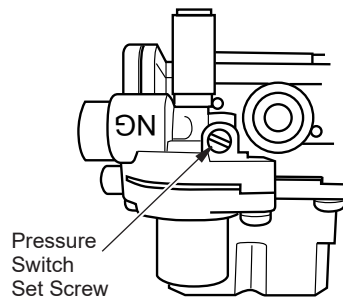


Figure 31 - Gas Regulator Pressure Switch

TROUBLESHOOTING

Problem	Possible Cause	Corrective Action
When ignitor button is pressed in, there is no spark at ODS/pilot	<ol style="list-style-type: none"> 1. Low battery. 2. Ignitor electrode is not connected to ignitor cable. 3. Ignitor cable is pinched or wet. 4. Ignitor electrode is positioned wrong. Ignitor electrode is broken. 5. Broken ignitor cable. 6. Bad piezo ignitor. 	<ol style="list-style-type: none"> 1. Replace battery. 2. Reattach ignitor cable 3. Free ignitor cable if pinched by any metal or tubing. Keep ignitor cable dry. 4. Replace electrode. 5. Replace ignitor cable. 6. Replace piezo ignitor.
When ignitor button is pressed in there is a spark at ODS/pilot but no ignition.	<ol style="list-style-type: none"> 1. Gas supply is turned off or equipment shutoff valve is closed. 2. Control knob not in PILOT position. 3. Control knob not fully pressed in while pressing ignitor button. 4. Air in gas lines (new installation or recent gas interruption). 5. ODS / pilot is clogged. 6. Depleted gas supply (propane). 	<ol style="list-style-type: none"> 1. Turn on gas supply or open equipment shutoff valve. 2. Turn control knob to PILOT position. 3. Fully press in control knob while pressing ignitor button. 4. Continue holding down control knob. Repeat igniting operation until air is removed. 5. Clean ODS/pilot (see <u>Care and Maintenance</u>, page 22) or replace ODS/pilot assembly. 6. Contact local propane gas company.
ODS/pilot lights but flame goes out when control knob is released.	<ol style="list-style-type: none"> 1. Control knob is not fully pressed in. 2. Control knob is not pressed in long enough. 3. Equipment shutoff valve is not fully open. 4. Thermocouple connection is loose at control valve. 5. Pilot flame not touching thermocouple, which allows thermocouple to cool, causing pilot flame to go out. This problem could be caused by one or both of the following: A) Low gas pressure B) Dirty or partially clogged ODS/pilot 6. Thermocouple damaged. 7. Control valve damaged. 	<ol style="list-style-type: none"> 1. Press in control knob fully. 2. After ODS/pilot lights, keep control knob pressed in 30 seconds. 3. Fully open equipment shutoff valve. 4. Hand tighten until snug, and then tighten 1/4 turn more. 5. A) Contact local natural or propane gas company B) Clean ODS/pilot (see <u>Care and Maintenance</u>, page 22) or replace ODS/pilot assembly 6. Replace thermocouple. 7. Replace control valve.

TROUBLESHOOTING

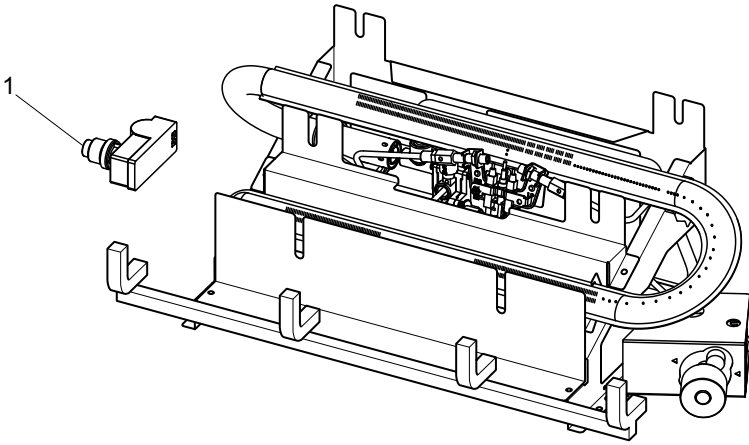
Problem	Possible Cause	Corrective Action
Burner does not light after ODS/pilot is lit.	<ol style="list-style-type: none"> 1. Burner orifice is clogged. 2. Inlet gas pressure is too low. 3. Burner orifice diameter is too small. 	<ol style="list-style-type: none"> 1. Clean burner orifice (see <u><i>Care and Maintenance</i></u>, page 22). 2. Contact local gas supplier. 3. Replace heater chassis.
Delayed ignition of burner.	<ol style="list-style-type: none"> 1. Manifold pressure is too low. 2. Burner orifice is clogged. 	<ol style="list-style-type: none"> 1. Contact local gas supplier. 2. Clean burner (see <u><i>Care and Maintenance</i></u>, page 22).
Burner backfiring during combustion.	<ol style="list-style-type: none"> 1. Burner orifice is clogged or damaged. 2. Burner is damaged. 3. Gas regulator is damaged. 	<ol style="list-style-type: none"> 1. Clean burner orifice (see <u><i>Care and Maintenance</i></u>, page 22). 2. Replace burner. 3. Replace heater chassis.
Yellow flame during burner combustion.	<ol style="list-style-type: none"> 1. Not enough air. 2. Inlet gas pressure is too low. 3. Gas regulator is damaged. 	<ol style="list-style-type: none"> 1. Check burner for dirt and debris. If found, clean burner (see <u><i>Care and Maintenance</i></u>, page 22). 2. Contact local gas supplier. 3. Replace heater chassis
Slight smoke or odor during initial operation.	<ol style="list-style-type: none"> 1. Residues from manufacturing process. 	<ol style="list-style-type: none"> 1. Problem will stop after a few hours of operation.
Gas odor during combustion.	<ol style="list-style-type: none"> 1. Foreign matter between control valve and burner. 2. Gas leak. (See <u><i>Warning Statement</i></u> at top of page 24). 	<ol style="list-style-type: none"> 1. Contact a qualified service technician to remove foreign matter. 2. Locate and correct all leaks (see <u><i>Checking Gas Connections</i></u>, page 17).
Heater produces unwanted odors.	<ol style="list-style-type: none"> 1. Heater is burning vapors from paint, hair spray, glues, etc. See <u><i>IMPORTANT</i></u> statement, page 24. 2. Gas leak. See <u><i>Warning Statement</i></u> at the top of page 24. 3. Low fuel supply. 	<ol style="list-style-type: none"> 1. Open a window to ventilate room. Stop using odor causing products while heater is running. 2. Locate and correct all leaks (see <u><i>Checking Gas Connections</i></u>, page 17). 3. Refill supply tank (Propane models).

TROUBLESHOOTING

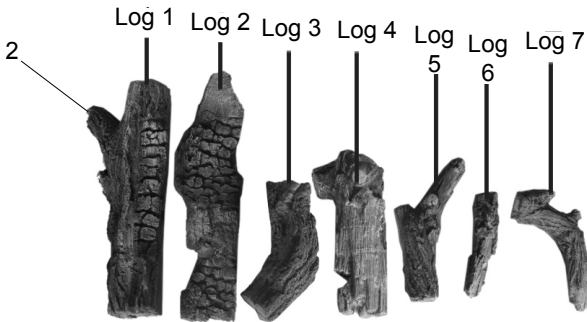
Problem	Possible Cause	Corrective Action
Heater produces a whistling noise when burner is lit.	<ol style="list-style-type: none"> 1. Turning control knob to high position when burner is cold. 2. Air in gas line. 3. Air passageways on heater are blocked. 4. Dirty or partially clogged burner orifice. 	<ol style="list-style-type: none"> 1. Turn control knob to low position and let warm up for a minute. 2. Operate burner until air is removed from line. Have gas line checked by local gas supplier. 3. Observe minimum installation clearances (Figure 4, page 10). 4. Clean burner (see <i>Care and Maintenance</i>, page 22).
Heater produces a clicking/ticking noise just after burner is lit or shut off.	<ol style="list-style-type: none"> 1. Metal is expanding while heating or contracting while cooling. 	<ol style="list-style-type: none"> 1. 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.	<ol style="list-style-type: none"> 1. When heated, the vapors from furniture polish, wax, carpet cleaners, etc., turn into white powder residue. 	<ol style="list-style-type: none"> 1. Turn heater off when using furniture polish, wax, carpet cleaner or similar products.
Heater shuts off in use (ODS operates).	<ol style="list-style-type: none"> 1. Not enough fresh air is available. 2. Low line pressure. 3. ODS/pilot is partially clogged. 	<ol style="list-style-type: none"> 1. Open window and/or door for ventilation. 2. Contact local gas supplier. 3. Clean ODS/pilot (see <i>Care and Maintenance</i>, page 22).
Gas odor exists even when control knob is in OFF position.	<ol style="list-style-type: none"> 1. Gas leak. See <i>Warning Statement</i> at top of page 24. 2. Control valve is defective. 	<ol style="list-style-type: none"> 1. Locate and correct all leaks (see <i>Checking Gas Connections</i>, page 17). 2. Contact customer service.
Moisture/condensation noticed on windows.	<ol style="list-style-type: none"> 1. Not enough combustion/ventilation air. 	<ol style="list-style-type: none"> 1. Refer to <i>Air for Combustion and Ventilation</i> requirements, page 6.

PARTS

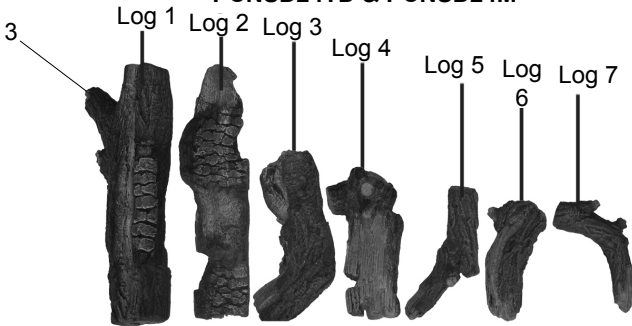
MODELS PCNSD18T, PCNSD24TD AND PCNSD24M



PCNSD18T



PCNSD24TD & PCNSD24M



PARTS

MODELS PCNSD18T, PCNSD24TD AND PCNSD24M

This list contains replaceable parts used in your heater. When ordering parts, follow the instructions listed under Replacement Parts on page 30 of this manual.

ITEM	PCNSD18T	PCNSD24TD	PCNSD24M	DESCRIPTION	QTY
1	PIMDN1-01	PIMDN1-01	PIMDN1-01	Ignitor	1
2	18NST107B-01	---	---	Log Assembly	1
3	---	24NST108B-01	24NST108B-01	Log Assembly	1
PARTS AVAILABLE - NOT SHOWN					
	18UDC1013B-01	18UDC1013B-01	18UDC1013B-01	Hardware Package	1

REPLACEMENT PARTS

Note: Use only original replacement parts. This will protect your warranty coverage for parts replaced under warranty.

PARTS UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement parts, call Customer Service toll free at 1-866-573-0674 for referral information.

When calling Customer Service or your dealer, have ready:

- Your name
- Your address

- Model and serial number of your heater
- How heater was malfunctioning
- Type of gas used (Propane or Natural gas)
- Purchase date
- Usually, we will ask you to return the defective part to the factory

PARTS NOT UNDER WARRANTY

Contact authorized dealers of this product. If they can't supply original replacement part(s) call Customer Service toll free at 1-866-573-0674 for referral information.

When calling Customer Service have ready:

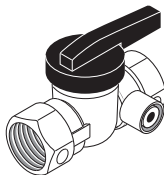
- Model number of your heater
- The replacement part number

ACCESSORIES

Purchase these heater accessories from your local dealer. If they can not supply these accessories, contact ProCom Heating, Inc. at 1-866-573-0674 for information.

EQUIPMENT SHUTOFF VALVE

For all models. Equipment shutoff valve with 1/2" NPT tap.



SERVICE HINTS

When Gas Pressure Is Too Low

- pilot will not stay lit
- burners will have delayed ignition
- fireplace will not produce specified heat
- propane gas supply might be low (propane units only)

You may feel your gas pressure is too low. If so, contact your local gas supplier.

TECHNICAL SERVICE

You may have further questions about installation, operation, or troubleshooting. If so, contact ProCom Heating, Inc. at 1-866-573-0674.

When calling, please have your model and serial numbers of your heater ready.

WARRANTY

KEEP THIS WARRANTY

Model _____

Serial No. _____

Date Purchased _____

Keep receipt for warranty verification.

REGISTER YOUR PRODUCT AT WWW.USAPROCOM.COM

IMPORTANT: We urge you to register your product within 10 days of date of installation, complete with entire serial number which can be found on the rating plate. Please fill out the warranty information above for your personal records. Retain this manual for future reference.

Always specify model and serial numbers when communicating with customer service.

We reserve the right to amend these specifications at any time without notice. The only warranty applicable is our standard written warranty. We make no other warranty, expressed or implied.

NEW PRODUCTS

Standard Warranty: ProCom Heating, Inc. warrants this product to be free from defects in materials and components for ONE (1) year from the date of first purchase, provided that the product has been properly installed by a qualified installer in accordance with all local codes and instructions furnished with the unit, operated and maintained in accordance with all applicable instructions. To make a claim under this warranty, the Bill of Sale or canceled check must be presented.

FACTORY RECONDITIONED PRODUCTS

Limited Warranty: ProCom Heating, Inc. warrants factory reconditioned products and any parts thereof to be free from defects in material and workmanship for a period 30 days from the date of first purchase from an authorized dealer provided the product has been installed, maintained and operated in accordance with ProCom Heating, Inc.'s warnings and Instructions. No return will be authorized. Parts will be provided to repair the product.

RESPONSIBILITY OF OWNER

This warranty is extended only to the original retail purchaser. This warranty covers the cost of part(s) required to restore this heater to proper operating condition. Warranty part(s) MUST be obtained through ProCom Heating, Inc. who will provide original factory replacement parts. Failure to use original factory replacement parts voids this warranty.

IMPORTANT: The heater MUST be installed by a qualified installer in accordance with all local codes and instructions furnished with the unit or the warranty is voided.

WHAT IS NOT COVERED

This warranty does not apply to parts that are not in original condition because of normal wear and tear or parts that fail or become damaged as a result of misuse, accidents, lack of proper maintenance or defects caused by improper installation. Travel, diagnostic cost, labor, transportation and any and all such other costs related to repairing a defective heater will be the responsibility of the owner.

TO THE FULL EXTENT ALLOWED BY THE LAW OF THE JURISDICTION THAT GOVERNS THE SALE OF THE PRODUCT, THIS EXPRESS WARRANTY EXCLUDES ANY AND ALL OTHER EXPRESSED WARRANTIES AND LIMITS THE DURATION OF ANY AND ALL IMPLIED WARRANTIES. INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO ONE (1) YEARS ON ALL COMPONENTS FROM THE DATE OF FIRST PURCHASE. PROCOM HEATING, INC.'S LIABILITY IS HEREBY LIMITED TO THE PURCHASE PRICE OF THE PRODUCT AND PROCOM HEATING, INC. SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES WHATSOEVER INCLUDING INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow a limitation on how long an implied warranty lasts or an exclusion or limitation of accidental or consequential damages, the above limitation on implied warranties, or exclusion or limitation on damages may not apply to you.

This warranty gives you specific legal right, and you may also have other rights that vary from state to state.



ProCom Heating, Inc.
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www.usaprocom.com
1-866-573-0674

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