

PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

# JACKSON GRILLS PATIO FIRE



Tested by:



Tested to: ANSI Z21.97-2010 & CSA CAN 1-2.21-M85

**WARNING: For Outdoor Use Only.**

**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 switches; do not use the 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: Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the installation, operation and maintenance instructions thoroughly before installing or servicing this equipment.**

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# SAFETY PRECAUTIONS

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**FOR SAFE INSTALLATION AND OPERATION OF THE JACKSON GRILLS PATIO FIRE, PLEASE CAREFULLY READ THE FOLLOWING INFORMATION:**

## **GENERAL**

- The Patio Fire must be installed in accordance with their instructions. Carefully read all the instructions in this manual first. Consult the building authority having jurisdiction to determine the need for a permit prior to commencing the installation.
- **NOTE:** Failure to follow these instructions could cause a malfunction of the campfire, which could result in death, serious bodily injury, and/or property damage.
- Failure to follow these instructions may also void your fire insurance and/or warranty.
- **Installation and repair should be done by a qualified service person. The appliance should be inspected before the first use and, at least, annually by a qualified service person. More frequent cleaning may be required as necessary. It is imperative the controls, burners and circulating air passageways of the appliance be kept clean.**

**Children and adults should be alerted to the hazards of high surface temperatures and should stay away to avoid burn or clothing ignition.**

- **Young children should be carefully supervised when they are in the area of the appliance.**

## **FOR YOUR SAFETY**

- Installation and service must be performed by a qualified installer, service agency or gas supplier.
- This installation must conform to local codes or, in the absence of local codes, with the B149.1 Natural Gas and Propane Installation Code in Canada or the National Fuel Gas Code, ANSI Z223.1 in the USA
- To prevent injury, do not allow anyone who is unfamiliar with this appliance to operate it.
- Always keep the area around these appliances clear of combustible material, gasoline and other flammable liquids and vapours.
- **Clothing or other flammable materials should not be hung from the appliance, or placed near the appliance.**
- Due to the paint curing on the campfire, a faint odour and slight smoking will likely be noticed when the appliance is first used.
- Never use solid fuels such as wood, paper, cardboard, coal, or any flammable liquids, etc., in this appliance.
- Do not use this heater if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control or gas control systems that have been under water.

# SPECIFICATIONS

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Input: 48,500 BTU•h (4.12 KW•h)

Manifold Pressure: 11 inch W.C. (2.74 KPa)

Maximum Gas Supply Pressure: 13 inch W.C. (3.50 KPa)

LP Orifice Size: # 47. NG Orifice Size: # 35

Recommended LP-gas supply cylinder size: 20 lbs

Hours of operation using a 20 lb Cylinder of Propane: 8 to 10 hours

## ASSEMBLY

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1. Remove the lid by twisting the tee handle counter clockwise until the lid assembly is released from the body.
2. Set aside the two bags of embers for the next step then remove and discard the packing material.
3. Check that the hose and regulator assembly is securely fastened to the campfire body (for use with Propane).

The LP-gas supply cylinder must be disconnected when this appliance is not in use.

**CAUTION:** The gas pressure regulator provided with this appliance must be used. This regulator is set for an outlet pressure of 11 inch W.C. (2.74 kPa).

The LP-gas supply cylinder(s) to be used with this campfire must be arranged for vapor withdrawal and must include a collar to protect the cylinder valve.

The LP-gas supply cylinder(s) must be constructed and marked in accordance with the specifications for LP-gas cylinders Standards, *CAN/CSA B339, Cylinders, Spheres and Tubes for Transportation of Dangerous Goods*.

## CAMPFIRE PLACEMENT

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**IMPORTANT:** This appliance must only be used outdoors in a well-ventilated space and cannot be used in a building, garage, or any other enclosed areas.

These minimum distances to combustibles must be maintained:

- 16" (406 mm) to all sides of fireplace.
- 84" (2134 mm) above the fireplace.

Position the gas hose out of pathways where people may trip over it or in areas where the hose may be subject to accidental damage.

# LIGHTING INSTRUCTIONS

1. Inspect the hose and burner for wear or damage. **DO NOT LIGHT THE FIRE PIT IF DAMAGE OR WEAR IS FOUND.**
2. Attach the regulator assembly to your propane cylinder. **MAKE SURE YOUR PROPANE CYLINDER VALVE IS CLOSED**
3. Attach the campfire regulator assembly to your propane cylinder by threading the QCC fitting clockwise onto the cylinder valve until hand tight snug (see Figure 1).



**Figure 1**

After the first time this is hooked up use a soap and water solution to perform a leak test. **NEVER USE AN OPEN FLAME FOR A LEAK TEST.**

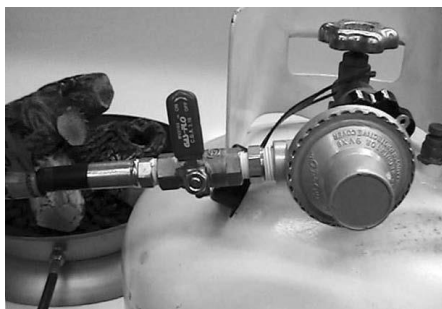
- a) Place the solution on the connections at either end of the hose and regulator assembly.
- b) Open the LP cylinder valve, if bubbles start to form between the valve and the hose there is a leak. Close the LP cylinder valve, unscrew the connection then re-attach. Re-open the LP cylinder valve, if bubbles start to form between the valve and the hose there is still a leak, see your dealer. If no bubbles are seen continue to c.



**Figure 2**

- c) Open the gas line valve, if bubbles start to form between the valve and the hose there is a leak. Close the gas line valve, unscrew the connection then re-attach. Re-open the gas line valve, if bubbles start to form between the valve and the hose there is still a leak, see your dealer. If no bubbles are seen continue lighting the campfire.

4. Check that the gas line valve is in the "OFF" position. Open LP tank valve (see Figure 3).
5. Place a lit match or equivalent on the log set near a burner port (see Figure 2).



**Figure 3**

6. **STAND CLEAR AND SLOWLY OPEN THE GAS LINE VALVE TO THE "ON" POSITION** (Figure 3 is shown in the "OFF" position). This campfire may light with a "WOOF"; this is **NORMAL** and is not dangerous.
7. The flame intensity can be lowered by slowly closing the gas line valve until the desired setting is reached.

# TURNING OFF GAS TO CAMPFIRE

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Turn the gas line valve to the “OFF” position.

NOTE: This unit must be completely shut off for 5 minutes before restart is permitted.

## LOG & EMBER PLACEMENT

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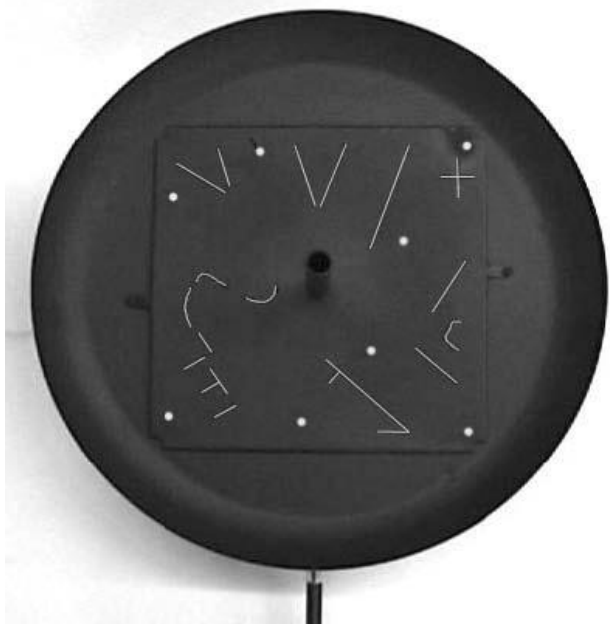


Figure 4

**CAUTION: The logs are fragile; handle with care.**

Install the logs and embers by following the pictures in this section, use care to align the logs onto the pins in their existing holes.

Figure 4 shows the Jackson Grills Patio Fire burner clean and empty. The burner ports and alignment pins are highlighted for reference. When placing the logs ensure that they do not cover any of the burner ports.

**WARNING: Installing the logs and embers in any arrangement other than shown here WILL result in UNSAFE burn characteristics.**

Figure 5: Place the first log gently over the center tube and alignment pin. Burner ports outline the log.

Figure 6: The second log has two (2) alignment pins.



Figure 5



Figure 6

Figures 7 through 10: Place logs 3 to 6 using the images below.



Figure 7



Figure 8



Figure 9



Figure 10

**Place the ember fibers over the burner making sure to cover all the burner slots.**



# NATURAL GAS CONVERSION

Tools required to convert this unit from propane gas to natural gas:

# 2 Phillips screwdriver

8 and 18 mm wrenches

Adjustable wrench

The outdoor gas appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of ½ psi (3.5 kPa).

1. Remove the lid by twisting the tee handle counter clockwise until the lid assembly is released from the body.
2. Remove logs & embers from unit (if already installed).
3. Using a # 2 Philips screwdriver, remove 2 screws holding the burner in place.
4. Slide back and lift burner out of the fire pit body (see Figure 11).
5. Using the Philips screwdriver, loosen the screw on the air shutter located on the burner, turn the shutter so that it is completely closed. Re-tighten the screw. Re-install burner in reverse order.
6. Using a 18 mm wrench, remove propane hose assembly from fire pit body (see Figure 12).
7. Using a 8 mm wrench, remove the brass propane orifice from the tip that was installed into the fire pit body. Set it aside, and install the supplied natural gas orifice. DO NOT OVER TIGHTEN.
8. Remove brass assembly with orifice from the propane hose, and install into the open end of the rubber flex hose on the natural gas hose assembly (see Figure 13).
9. Re-install natural gas hose assembly with new NG orifice into the fire pit. Re-install logs & embers.

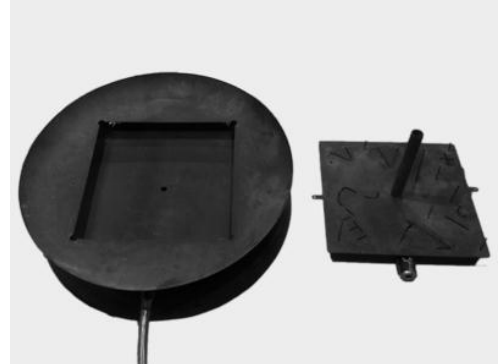


Figure 11



Figure 12



Figure 13

**REMEMBER TO LEAK CHECK ALL FITTINGS AND ORIFICE AFTER ALL OF THE CONVERSION IS COMPLETED, LEAK CHECK ALL FITTINGS AND TEST FIRE UNIT TO ENSURE PROPER, SAFE OPERATION.**



# CARE & MAINTENANCE

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- Should your campfire be left out in the rain, simply light it as usual and burn until the log set and embers have dried out and begin to glow.
  - Scratches and stains on the wind guard can be buffed out using a Scotch-Brite pad. Be sure to buff "with the grain" to restore the stainless steel's natural luster.
  - The hose assembly must be checked every time the campfire is lit. If evidence is found of excessive abrasion or wear, or if the hose is damaged the hose must be replaced prior to lighting. Replace with part number TPR18HRA.
  - The burner assembly must be checked every time the campfire is lit. If evidence is found of damage the burner must be replaced prior to lighting. Replace with part number TPR18LPB.
  - The burner may be removed, for cleaning or maintenance by removing the two (2) mounting screws and lifting the burner from the campfire body.
  - To clean the burner wait until the campfire has completely cooled. Gently remove the log set and embers. CAREFULLY LIFT each log STRAIGHT UP off of the center tube and alignment pins starting from the top down (in the reverse order shown in Figures 5-10). Pour off and SAVE THE EMBERS. The burner may then be removed. Use a soft brush attachment on a vacuum to clean the whole unit. Re-install the burner and refer to the section **Log & Ember Placement** to re-install the logs and embers.
  - This campfire, hose, and regulator assembly must be disconnected from the gas supply piping system during any pressure testing of the gas supply piping system at test pressures in excess of 1/2 psi (3.5kPa).
- This campfire must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures in equal to or less than 1/2 psi (3.5kPa).
- Should carbon deposits appear on the log set simply vacuum it off using the soft brush attachment on your vacuum.

# STORAGE

When the appliance is not in use the LP cylinder must be disconnected. Store your campfire in a dry place. This appliance may be stored indoors but the LP cylinder must be stored outdoors in a well-ventilated area out of reach of children.

If the Patio Fire is to be transported or stored, the hose and regulator assembly must be wrapped around the center of the base. Do not wrap so tight as to kink the hose at the base connection end. Hook one end of the supplied bungee cord onto the hand wheel of the regulator (see Figure 14) making sure the end of the POL nipple points inward (for



**Figure 14**

protection). Stretch the other end of the bungee around to where the hose attaches to the base and hook on as shown in Figure 15.

Disconnected cylinders must have threaded valve plugs tightly installed and must not be stored in a building, garage or any other enclosed area.

Enclosures for LP-gas supply cylinders shall be ventilated by openings at the level of the cylinder valve and at floor level. The effectiveness of the opening(s) for the purposes of ventilation shall be determined with the LP-gas supply cylinder(s) in place. This shall be accomplished by one of the following:



**Figure 15**

- a) One side of the enclosure shall be completely open; or
- b) For an enclosure having four (4) side, a top and a bottom:
  1. At least two (2) ventilation openings at cylinder valve level shall be provided in the side wall, equally sized, spaced at 180 degrees (3.14 rad), and unobstructed. Each opening shall have a total free area of not less than 1/2 square inch per pound (3.2 sq. cm/kg) of stored fuel capacity and not less than a total free area of 10 square inches (64.5 sq. cm).
  2. Ventilation opening(s) shall be provided at floor level and shall have a total free area of not less than 1/2 square inch per pound (3.2 sq. cm/kg) of stored fuel capacity and not less than a total free area of 10 square inches (64.5 sq. cm). If ventilation openings at floor level are in a sidewall, there shall be at least two (2) openings. The bottom of the openings shall be at floor level and the upper edge no more than 5 inches (127 mm) above the floor. The openings shall be equally sized, spaced at 180 degrees (3.14 rad), and unobstructed.
  3. Every opening shall have minimum dimensions so as to permit the entrance of a 1/8 inch (3.2 mm) diameter rod.

The cylinder's valve shall be readily accessible for hand operation. A door on the enclosure to gain access to the cylinder valves is acceptable, provided it is non-locking and can be opened without the use of tools.

There shall be a minimum clearance of 2 inches (50.8 mm) between the lower surface of the floor of the LP-gas supply cylinder enclosure and the ground.

# WARRANTY

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A one-year warranty is offered for the Patio Fire against manufacturing defects. This warranty covers defects in materials and workmanship only if the product has been installed and used according to the manual's instructions. If the product is damaged or broken as a result of misuse or mishandling, the warranty does not apply. The ceramic log set and embers are exempt from the warranty after the first burn.

# PARTS LIST

Replacement parts can be ordered from your dealer or distributor.

Part Number	Part Description
TPR18THA	Tee Handle Assembly
TPR18LID	Lid
TPR18WG	Wind guard
TPR18LS	Log set
TPR18EMB	Embers (2 bags)
TPR18LPB	LP Burner
TPR18BDY	Body
TPR18HRA	Hose & Regulator Assembly
TPR18LPOFA	LP Orifice Fitting Assembly
TPR18BC	Bungee Cord
TPR18MAN	Owner's Manual

