

The **Woodland**
POWER STOVE™

OWNER'S MANUAL



Woodland Group Inc.

544 7th Ave
Kirkland, WA 98033

Phone: (425) 481-8187

Fax: (425) 488-3619

www.powerstove.net

Made in the U.S.A.



Warning

READ AND UNDERSTAND ALL SAFETY WARNINGS.
FOLLOW INSTRUCTIONS BEFORE USE TO PREVENT
FIRES, INJURY, OR DEATH.



PAY CLOSE ATTENTION TO WARNINGS OR INSTRUCTIONS
WHICH ARE ACCOMPANIED BY THIS WARNING SYMBOL

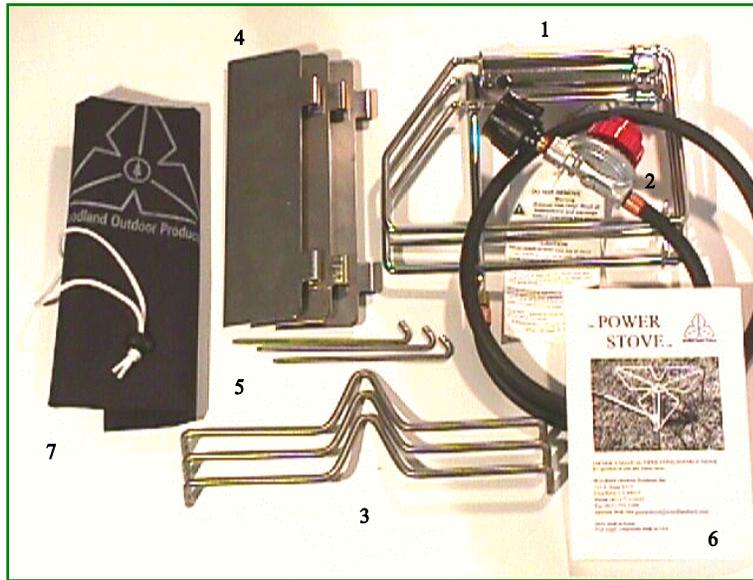
- This stove is for Outdoor Use Only! Do not use indoors or in a confined space. Do not attach or remove propane tank indoors.
- Propane is heavier than air and will accumulate in low places. If you smell gas, leave immediately and ventilate the area thoroughly.
- This stove is designed for propane gas only. Use only with propane tanks that are US Department Of Transportation (DOT) approved.
- Store propane in accordance with local and state laws. Never store propane in enclosed areas or near open flame.
- Stove is for adult use only. Keep children and pets away from stove while in use. Do not leave stove unattended when in use.
- Keep propane tank at least 24" away from stove. Do not allow hose to contact hot surfaces or flame.
- Never use this stove on or near combustible materials or surfaces.
- Use only flat bottom cookware approved for stove top use on this stove.
- Cookware handles can become extremely hot when used on this stove. Use extreme caution when handling cookware.
- Never reach or lean over top of stove when lighting or while in use.
- This stove remains HOT for ½ hour or more after use. Use caution when handling to avoid burns.

If Malfunction Occurs, Immediately Shut Off Gas At Tank.

Congratulations on your purchase! The Power Stove is a unique new concept in cook stoves. Your stove has many features which set it apart from other high powered stoves.

- 100% stainless steel means you can leave the Power Stove out in the weather or douse it with water for rapid cooling. You may submerge the stove (not the regulator) to clean it and the Power Stove is DISHWASHER SAFE!
- Ultra light weight, yet your Power Stove will safely hold more weight than other high powered stoves on the market.
- Collapsible design means you can store your Power Stove in small spaces (i.e. behind truck seats, in small RV storage cupboards, under beds, on small shelves, ETC.).
- Unique burner design allows the Power Stove to burn in any position - even on its side! It's great for starting camp fires, heating barrels of water, and canning fruit & vegetables.
- The Power Stove's burner won't plug or cease to operate (like conventional stoves) if food is spilled on it.
- The Power Stove distributes heat evenly over cookware by spreading the flame rather than relying on the thickness of the pan. The "Hot Spot" in the center (common with other stoves) is minimized - even with thin cookware!
- With the unique flame modifier the stove will simulate a wood camp fire without smoke or smell. You can use the optional ceramic log set for a real camp fire atmosphere.
- Safety features such as solid vertical support columns, depressed center, permanently attached flame spreader, lower lighting hole, three leg design, reversible leg braces, high temperature resistant alloys, fuel dispersing burner, inlet safety fitting, and high strength ground stakes make the Power Stove one of the safest high power cook stoves available.

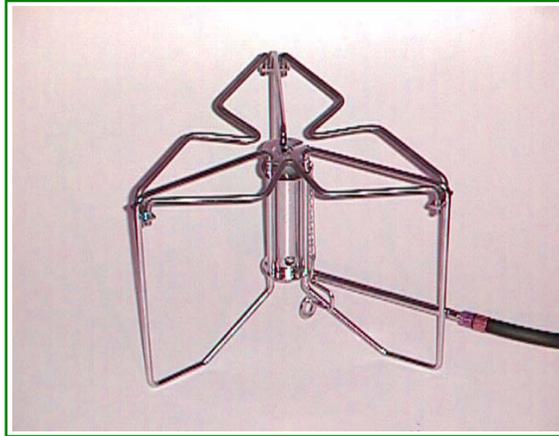
Assembly Instructions



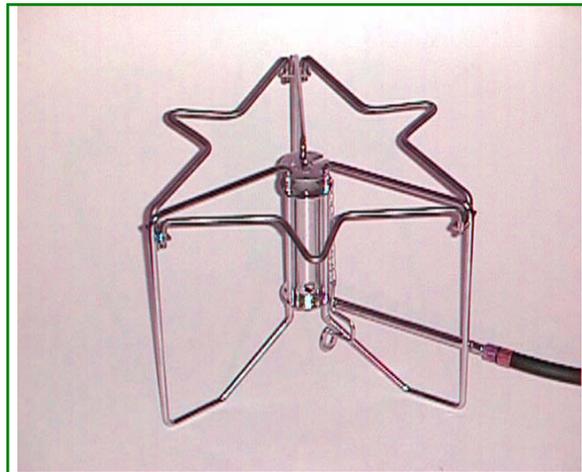
Please familiarize yourself with each of the parts shown below in Photograph 1 before assembling or operating your Power Stove.

<u>Item</u>	<u>Qty.</u>	<u>Description</u>
1	1	Stove burner assembly with legs
	1	Flame spreader (attached to stove leg)
	1	Flame modifier (attached by short chain)
2	1	Regulator, inlet fitting, hose & tags (attached).
3	3	Reversible leg braces
4	3	Wind screens
5	3	Safety ground stakes
6	1	Owners manual & product registration card
7	1	Storage bag

1. Select a level area (outdoors and on the ground) to place the stove. Clear an area approximately 3 feet (1 meter) in diameter of dry grass, sticks, leaves, or other flammable material.
2. Fold out the stove legs and insert the leg braces into the legs as shown in Figure 2.



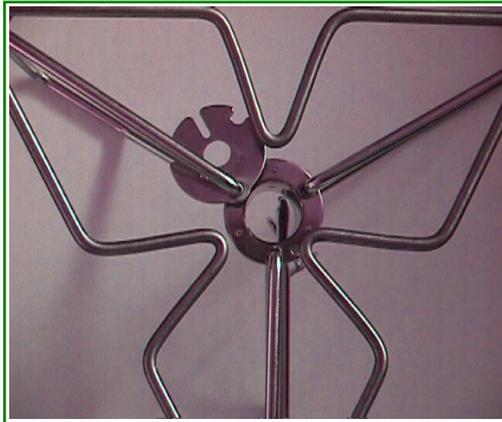
- For cookware smaller than 12" in diameter, insert the leg braces with stabilizer points facing inward (Figure 2).
- For cookware 12" or larger in diameter, insert the leg braces with stabilizer points facing outward as shown in Figure 3.



3. Place stove on the ground in the center of the cleared area. Drive the safety stakes into the ground anchoring the stove to the ground as shown in photograph 4.

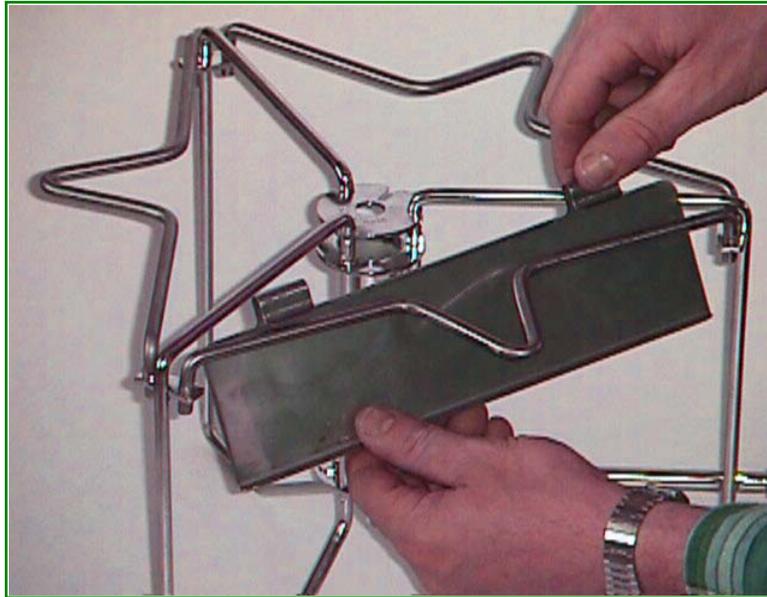


4. Lift the flame spreader away from the top of the burner tube as shown in Figure 5 and inspect burner tube for obstructions. Clear any debris or obstructions from inside of burner tube before use.

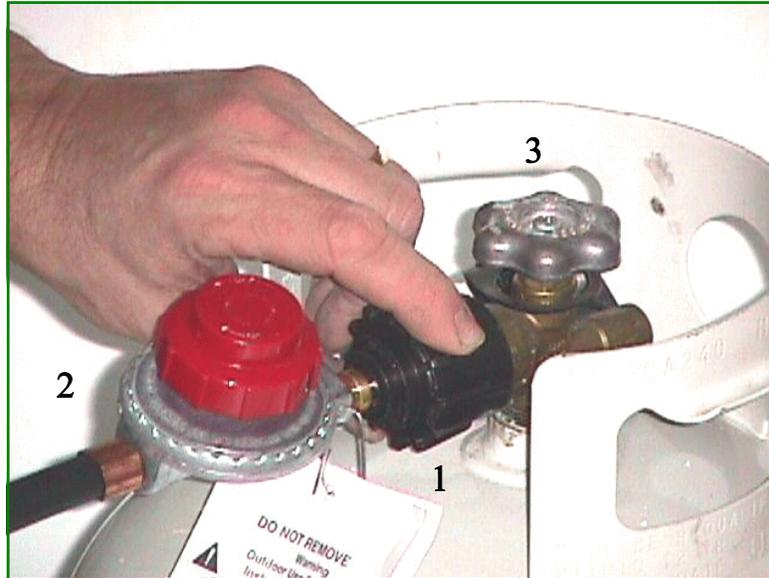


Replace the flame spreader over the top of the burner tube before continuing!

5. In windy conditions, move the stove to a protected area before use. Wind screens may be used to reduce the effects of breeze. The wind screens snap onto the back of the leg braces as shown in Figure 6.



6. Inspect the gas hose for damage. Inspect the propane tank fitting and regulator fitting for cleanliness or damage. Clean fittings if necessary. If hose, fittings, regulator, or stove is damaged, do not use until repairs have been approved by Woodland.



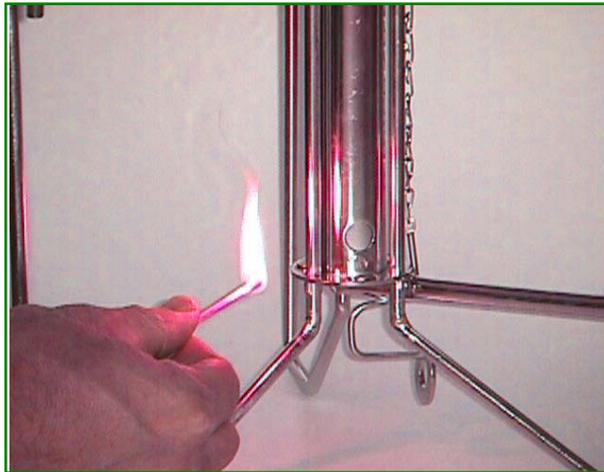
7. The tank inlet fitting (Figure 7, item 1) which is attached to the regulator has a safety feature called the EXCESS FLOW VALVE which shuts off the gas supply if the hose is cut or burned in two. To avoid false activation of this safety feature, make sure that both the tank valve (Item 3) and the regulator control knob (Item 2) are in the OFF position. Attach the regulator control knob (item 2) to the tank. Hand tighten the fitting (no tools required) to a positive stop. Turn on the tank valve slowly to avoid activating the excess flow valve. Spray soapy water on the fittings and watch for leaks which will form bubbles in the soapy water. **Repair any leaks before lighting the stove.**

Operating Instructions

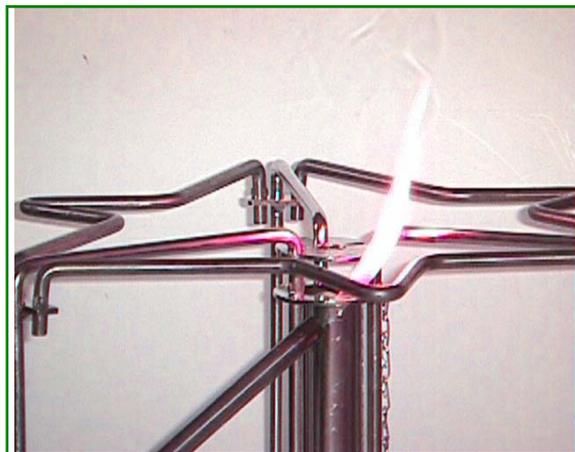
To prevent fires or injury:

-  **Never reach over the top of the stove while lighting or in use!**
-  **Always turn the flame low when handling cookware on the stove.**
-  **Keep the Power Stove flame level low enough that it does not rise above the sides of the cookware.**
-  **For cookware smaller than 12" in diameter, use removable handles.**
-  **If problems occur, immediately turn off the gas at the tank valve (Figure 7, item 3).**

1. **LIGHTING:** To light the stove open the tank valve first. Then turn the regulator control knob **ON** (clockwise) one (1) turn. You will hear a soft hissing sound in the stove.



Matches: Place a lighted match or lighter flame into the lighting hole on the lower side of the burner as shown in photograph 8. If the match is blown out as it approaches the lighting hole, the fuel control may be turned on too high. Reduce the regulator control knob setting and try again.



Long Match or Spark Lighter: Place a long match or spark lighter near the top of the burner tube as shown in photograph 9. Be sure to keep your hand away from the flame path as the stove ignites to avoid burns.

NOTE: If stove fails to light or lights with a small yellow flame, the excess flow valve may have been activated. To reset,

turn the regulator control knob and the tank valve completely off for a few seconds. The valve will reset itself and you may proceed to light the stove.

2. After lighting, adjust the flame as desired. The best cooking setting is usually when the flame just reaches the underside outer edges of the cookware. This allows the cookware to absorb most of the stove's heat without wasting fuel. When lower cooking temperature is desired, use the flame modifier to cool the flame instead of turning the burner down to a low yellow flame (low yellow flames cause heavy sooting of the cookware and stove and should be avoided).
3. To shut off the stove, turn the regulator control knob fully OFF (counter clockwise) and then shut off the propane tank valve. **Do not touch for ½ hour**, allowing time for it to cool down. If rapid cooling is desired, douse the stove with water.

Flame Modifier:

The Flame Modifier (disk attached to chain) can be placed in the top of the burner tube to create a cooler flame for slow cooking of pancakes, eggs, hash browns, Dutch ovens, etc., or for creating a camp fire style burn. **Do not handle the flame modifier when the stove is hot.** When the flame modifier is in place, light the stove at the top of the burner tube, while keeping hands below the flame path to avoid burns. If a gurgling sound is heard, fuel is burning below the flame modifier. Turn the regulator ON fully for a moment until the gurgling sound stops and then reduce flame to the desired level.

Operating Tips

Simulated Camp Fire

A quiet yellow flame, similar to that of a camp fire, is easily created by inserting the Flame Modifier into the burner tube. The Power Stove will not produce smoke, odor, ash, charcoal, or sparks common to wood camp fires. The risk of causing a forest or grass fire is reduced because no hot coals remain after the Power Stove is shut off.

Cooking Temperature

Most cooking is done at low to mid heat levels. High heat levels are appropriate for lighting charcoal or wood camp fires and boiling large amounts of water. When cooler cooking temperatures are needed, the flame modifier may be used. Light sooting of the cookware may occur when using the flame modifier. Apply a light coating of dish soap to the underside of the cookware (prior to use) to ease soot removal.

Lighting Charcoal

The Power Stove will light charcoal fast! Place charcoal in a lighting chimney, steel basket, or on a grate on the stove. Slide the flame spreader disk away from the burner tube if using a lighting chimney. Light the stove, turn it up high, and within minutes the charcoal will be ready for use. Turn off the stove before removing the charcoal.

Dutch Oven Use

The Power Stove is excellent for Dutch oven cooking! The oven's legs will fit inside of or around the stove's leg braces, preventing the oven from sliding. The Power Stove provides a regulated heat source from below the Dutch oven while charcoal on the lid heats from above. The flame modifier may be used if low heat is desired.

Lighting Camp Fires

The Power Stove is perfect for lighting camp fires! Place fire wood in an approved fire pit. With wind screens and leg braces removed, slide the flame spreader disk away from the burner tube. Fold the legs together and place stove on its side in the fire pit with the top of the burner pointing toward the base of the wood. Route the fuel hose away from the fire to prevent damage. Ignite stove and turn the flame level up high. The fire wood will ignite within minutes. Turn off stove and remove it from the fire pit.

Cooling

The Power Stove may be cooled fast by dousing it with water or snow. It can also be left out in the weather without being damaged! Be careful not to get moisture in the regulator.

Cleaning

The Power Stove is easy to clean with common household cleaners. It can be immersed in water and it is DISHWASHER SAFE! To keep the inside of the regulator dry, remove it from the hose assembly. Use a 5/8" and a 9/16" wrench to separate the regulator from the hose assembly. Before re-attaching the regulator, drain water from the hose and be sure it is free of debris. Tighten fitting and test for leaks with soapy water while the hose is pressurized.

Side Use

The leg braces are designed to sit in their support brackets loosely. If the Power Stove is turned on its side frequently, you may wish to stiffen the fit to prevent the braces from falling out. You can shorten one brace by pinching the stabilizer point slightly in a vise. This will make it more difficult to insert but the braces will remain in place when the stove is operated on its side.

Fuel Level Testing

To measure the fuel level in a tank, pour a cup of hot water slowly down the side of the tank. Run your hand down the side of the tank and feel the temperature of the tank. The temperature of the tank wall will be much cooler when your hand reaches the liquid level.

Fuel Consumption

The Power Stove's typical fuel consumption is between ½ pound to 3 pounds of fuel per hour depending on heat setting. Burn time with a 20lb (5 gallon) tank is approximately 7.1 hours on high and 80 hours on low.

Propane inside a tank is liquid. It turns to vapor as the tank absorbs heat from the surrounding air. Large tanks absorb more heat and produce more fuel vapor for longer periods of time. Small tanks are light and convenient but only deliver a low volume of vapor. When a tank is nearly empty (or too small for the need) water droplets or ice will form on the tank and stove performance will degrade. Cold temperatures also limit a tank's performance. In cold operating conditions, a tank should be larger than normal in order to absorb more heat from the cold surrounding air. We

Tank Selection

The Power Stove can operate from any size of refillable propane tank. It is only limited by the length of the fuel supply hose on the stove. Typical usable tank sizes are 5, 11, 20, 30, and 40 pounds. Following is a size & use chart:

5 Pound: One stove, medium size cookware, Dutch oven, occasional charcoal or fire starting, 2-8 hours burn time.

11 Pound: Multiple stoves, large size cookware, Dutch oven, charcoal or fire starting, limited camp fire use, 4-20 hour burn time.

20 Pound: Multiple stoves, large size cookware, Dutch oven, charcoal or fire starting, camp fire use, 8-40 hours burn time.

30 Pound: Multiple stoves, multiple large size cookware, extended use, 12-60 hours burn time.

40 Pound: Multiple stoves, large size or multiple cookware, extended use, 16-80 hours burn time.

Accessories

Visit us at www.powerstove.net for updates on optional accessories to improve the versatility of your new Power Stove.

Parts or Service

To keep your Power Stove in perfect operating condition, replacement parts and/or service are available regardless of warranty status. Replacement parts which involve the fuel system must be installed by Woodland authorized personnel. Please call for the latest pricing and availability.

If your Power Stove needs service, please call Woodland's Customer Service to receive a RMA number and further instructions. Write the RMA number clearly on the package label and send it postage prepaid to Woodland Outdoor Products. Your stove will be repaired or replaced and returned to you. Woodland Group will not be responsible for products returned for service without an RMA number.

Troubleshooting

Problem	Causes	Solution
Flame burns too hot for cooking.	Regulator control knob is turned up too high. Flame modifier is not in use.	Turn regulator knob down until desired flame level is reached. Place flame modifier in the burner tube to cool flame.
Stove fails to light or lights with a small yellow flame.	Type 1 regulator inlet fitting's excess flow valve device has activated. Fuel tank is near empty.	Shut off the tank valve and the regulator control knob for a few seconds. Remove the flame modifier from the burner tube. Turn the tank valve on slowly. Turn the regulator control knob on one turn and light stove. Refill the tank.
Match is blown out as it approaches lighting hole.	Regulator control knob is turned up too high.	Turn the regulator control knob down and try again.
Flame fades slowly and turns yellow.	Tank is either low on fuel or too small for the desired application (tank chilling indicates tank is too small).	Fill the tank or replace it with a larger one. The smallest recommended tank size is 4 lbs.
The standard Power Stove fitting does not work with my tank.	Propane tank manufacturers are now required to use Type 1 tank valves. The Power Stove comes standard with a Type 1 regulator inlet fitting to match.	Older propane tanks may not feature the industry standard TYPE 1 fitting. Because of the inherent safety features, Woodland recommends you only use tanks with TYPE 1 fittings.
Heavy black soot forms on stove and cookware.	Stove is turned too low to burn efficiently. Flame modifier is not in use during low level cooking. Flame is burning below the flame modifier while in use.	Use the flame modifier to cool the stove flame (instead of turning the stove down to a yellow flame). When using the flame modifier, light the stove at the top of the burner for a cleaner burn.

Warranty

Woodland Group, Inc. warrants the stainless steel Power Stove and all of its stainless steel components against defects due to materials or workmanship for as long as the original purchaser owns the stove. We further warrant all non-stainless steel components of the Power Stove against defects due to materials or workmanship for a period of one (1) year from the date of original purchase.

- This warranty does not cover stoves which have been damaged from improper use, improper maintenance, accidents, alterations, disassembly, or repairs by anyone other than authorized personnel of Woodland Group, Inc.
- This warranty does not cover the loss of any component of the Power Stove, whether attached or separate.
- This warranty does not cover finish scratching or discoloration which is considered normal when Stainless Steel is exposed to heat.
- Woodland Group, Inc. may choose to repair or replace defective products covered under this warranty.

In order to receive warranty service you must provide proof of purchase. Warranty service may be received by calling Customer Service at (425) 481-8187 for an RMA number and further instructions.

The above obligation is Woodland Group, Inc.'s sole liability under this or any implied warranty. Woodland Group, Inc. shall not be held liable under any circumstances for any incidental or consequential damages.