

# StoveTec Wood/Charcoal Stove Manual



This instruction manual can be translated into the local language. For a template, please contact:

StoveTec  
PO Box 1175  
79093 Highway 99  
Cottage Grove, Oregon 97424  
USA  
541-767-0287

Instructions and photos by Evan Shenkin, Illustration by Lance MacCarty

[www.stovetec.net](http://www.stovetec.net)

## Detailed Instructions for the Wood/Charcoal Stove

The Wood/Charcoal stove can be used with wood or charcoal fuels.

- For wood burning, open the big door and place the fuel shelf in front of the stove. Insert the sticks, burning only at the ends makes a lot less smoke. Control the airflow using the little door – fully open for high power, 1/2 open for low power. To light the stove, place some kindling inside the combustion chamber. Add larger pieces of wood when the flame is established. Continue pushing sticks into the stove as they are burned. Do not overfill the stove.
  - To use the stove with charcoal, **insert the ceramic piece and close the big door**. Then fill with charcoal from the top. Control the power of the stove by adjusting the small lower door, fully open for high power and almost fully closed for low power. **The ceramic piece must be used or the metal door will burn out quickly.**
  - The adjustable pot skirt helps to save fuel! Loosen the nut and adjust the skirt making sure that the skirt touches the top of the stove. Then tighten the nut.
- **Use the stove only in a well-ventilated area!**
  - **Do not use the stove indoors.**
  - **Keep the stove out of the rain. Keep it dry.**
  - **Use stove on a heat-resistant surface.**

## DANGER

Failure to comply with the precautions and instructions provided with this stove can result in death, serious bodily injury and property loss or damage from hazards of fire, burn, asphyxiation, and/or carbon monoxide poisoning.

## WARNING



### • BURN HAZARD

- Never leave stove unattended when hot or in use.
- Keep out of reach of children.

## DANGER



### • CARBON MONOXIDE HAZARD

- For Outdoor Use Only
- Never use inside house, camper, tent, vehicle or other unventilated or enclosed areas. This stove consumes air (oxygen). Do not use in unventilated or enclosed areas to avoid endangering your life.
- This stove is a combustion appliance. All combustion appliances produce carbon monoxide (CO) during the combustion process. This product is designed to produce extremely minute, non-hazardous amounts of CO if used with wood and maintained in accordance with all warnings and instructions. Dangerously high levels will be emitted from charcoal. Do not block air flow into or out of the stove.
- Carbon Monoxide (CO) poisoning produces flu-like symptoms, watery eyes, headaches, dizziness, fatigue and possibly death. You can't see it and you can't smell it. It's an invisible killer. If these symptoms are present during operation of this product get fresh air immediately!

## DANGER



### • EXPLOSION - FIRE HAZARD

- This stove is red hot during use and can ignite flammables too close to the burners. Keep flammables at least 12 inches from the sides and 48 inches from the top of the stove. Keep gasoline and other flammable liquids and vapors well away from stove.
- During operation, this product can be a source of ignition. Never use the stove in spaces that contain or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals. Minimum clearances from combustible materials: 12 inches from the sides & 48 inches from the top.
- Operate stove only on top of heat-resistant material.
- Provide adequate clearances around air openings into the combustion chamber.

## DANGER



### CARBON MONOXIDE HAZARD

- This appliance can produce carbon monoxide which has no odor.
- Using it in an enclosed space can kill you.
- Never use this appliance in an enclosed space such as a camper, tent, car or home.

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# Instructions for using Stove with wood

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----- Use stove in a well-ventilated area on heat resistant surface. -----

1. Open the big door. Remove brick from stove.



2. Place fuel shelf in front of the stove. Keep bottom door all the way open for full power.



3. Place pot skirt under bottom of pot.

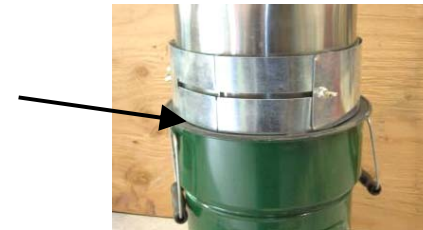


4. Press pot skirt together and tighten screw.



5. Place the pot and pot skirt on top of the stove. Push the pot skirt down onto the top of the stove.

*\*\*Using the pot skirt will save about 25% of the fuel!*



6. Light fire with kindling.



7. Larger sticks catch fire from the kindling underneath.
8. Burning the sticks at the tip will create much less smoke. Push sticks into the stove as they burn up.



9. Close the bottom door half way for simmering when using less fuel.



10. When moving stove wait until cool. Carry using both handles.



## ***Special tips for reducing fuel use while cooking with wood:***

- ❖ **Keep lid on pot at all times.**
- ❖ **Keep pot skirt on pot.**
- ❖ **Make sure pot skirt is touching top of stove.**



### **❖ When cooking at a simmering temperature:**

- A. When water comes to a boil, remove burning sticks. The sticks make coals that can be used for further cooking.
- B. Break off coals from ends of stick.



C. Put brick back into stove. Slide top door and close completely.



D. Slide bottom door closed. Leave only a small opening to keep coals burning.



E. When using a pot lid and skirt, the food will continue to cook. The coals should cook the food for about 30 minutes.

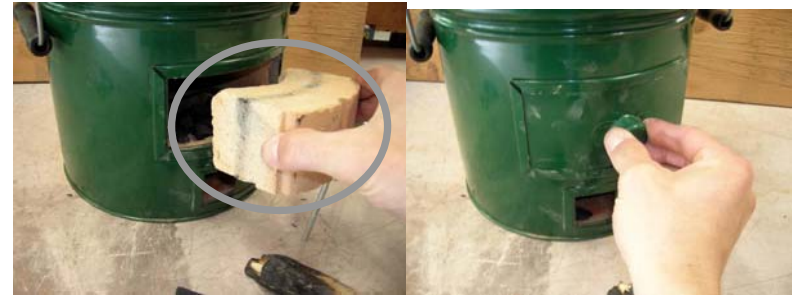
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## Instructions for using Stove with charcoal

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-----Use stove outside on a heat resistant surface-----

1. Put brick back into stove. Slide top door and close completely. The brick must be used with charcoal or the metal door will burn out quickly.



2. Open bottom door halfway. Keep top door closed. The brick protects the upper door from the heat of the charcoal fire.
3. Feed large pieces of charcoal into the top of the stove. Fill chamber with enough charcoal to complete cooking.
4. Light charcoal at the top of the stove.



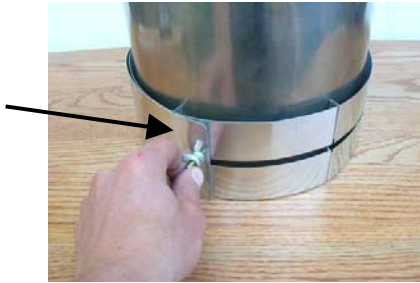
<b>▲ DANGER</b>

<b>CARBON MONOXIDE HAZARD</b>
<ul style="list-style-type: none"><li>• This appliance can produce carbon monoxide which has no odor.</li><li>• Using it in an enclosed space can kill you.</li><li>• Never use this appliance in an enclosed space such as a camper, tent, car or home.</li></ul>



5. Place pot skirt under bottom of pot.

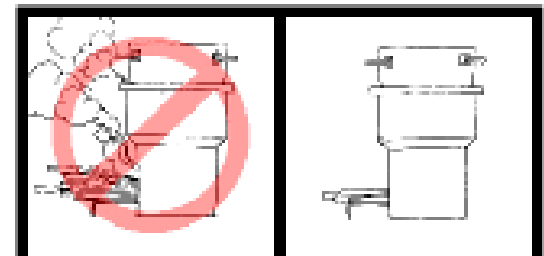


6. Press pot skirt together and tighten screw.

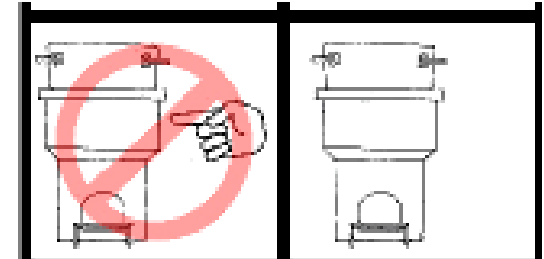


7. Place the pot and pot skirt on top of the stove. Push the pot skirt down onto the top of the stove.

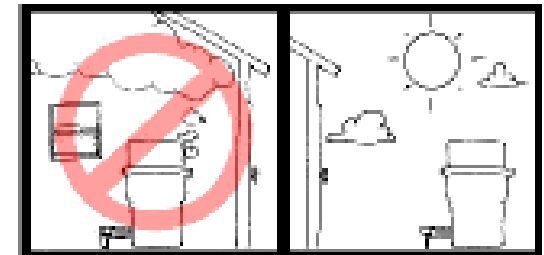
*\*\*Using the pot skirt will save about 25% of the fuel!*



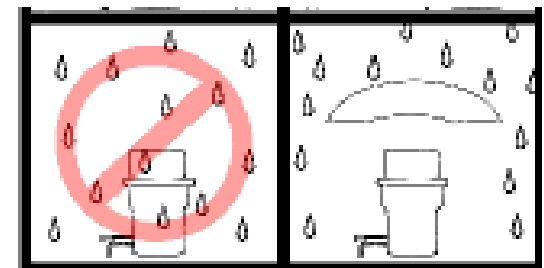
**Do not overload with fuel**



**The stove body is hot – do not touch**



**Use only with ventilation**



**Protect from rain**



[www.stovetec.net](http://www.stovetec.net) | 541-767-0287 | [ben@stovetec.net](mailto:ben@stovetec.net)

### What Gets Us Going

**3 Billion people need a clean burning stove. Lets work together to make a difference!**

We want to deliver clean and efficient cook stoves to people that need them. StoveTec doesn't need patents, or other funky protection for our products. The Aprovecho Research Center is open source to help the **3 billion people cooking on an open fire**, and to reduce the number of people that die every year from breathing smoke. Mother Nature needs a lot of help right now to reduce global warming, ill health and deforestation.



**Biomass & Charcoal Stove**



**Biomass Stove**

### Why We're Here

**Delivering clean and efficient stove to the world cooks won't happen on it's own.**

StoveTec is brought to you by Aprovecho Research Center, same people who have worked tirelessly for the last 30 years to design and build the world's new standard for biomass stoves, and who have completed over 100 projects in 60 countries.

StoveTec is a not-just-for-profit entity that acts as the technology transfer recipient for the Aprovecho Research Center (ARC). We are a for-profit owned by a non-profit, with going back to ARC.



### People Love our Stoves!

**Cooks and testers alike can't get over how cool this little stove really is.**

From the cooks in Uganda, to Prince Charles in the UK, people love our stoves! The **Uganda Controlled Cooking Test** conducted by Erika Tyler of Columbia University showed a 95% preference for our rocket stove. Prince Charles, who has been studying stoves for 30 years, presented Dean Still and Mr. Shen with the **Ashden Energy Champion Award** for designing and manufacturing this clean and efficient stove. The list goes on to include the UK's Guardian Newspaper that listed the stove as **one of the ten best ways to save the world.**