INSTRUCTION MANUAL



WHISPERLITE[™] INTERNATIONAL STOVE



A DANGER



FOR OUTDOOR USE ONLY

CARBON MONOXIDE HAZARD This stove can produce carbon monoxide, which has no odor.

Using it in an enclosed space can kill you. Never use this stove in an enclosed space such as a camper, tent, vestible, car, or home.

FOR YOUR SAFETY

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



CARBON MONOXIDE, FIRE, **EXPLOSION HAZARD**

There are serious hazards associated with using this stove and fuel. Accidental fire, explosion, and misuse can cause death, serious burns, and property damage. You are responsible for your own safety and the safety of those in your group. Please use good judgment and read these instructions for use carefully. Familiarize yourself with the stove before connecting it to its to be buffer. Account of these instructions for the content of the safety of these interviews and the safety of t fuel bottle. Keep these instructions for future reference.

This stove is a lightweight, compact device made for OUTDOOR USE ONLY to boil water or cook food. Never use it for any other purpose. Cooking outdoors is more hazardous than cooking as you normally would at home. Please consult with your local outdoor retailer to learn more about cooking outdoors. Seek qualified instruction before you venture outdoors. Follow this safety information:

Check that the seals between the stove and the fuel bottle are in place and in good condition before connecting the stove to
the cylinder. Do not use this stove if it has damaged or worm seals.

- Keep stove and fuel bottle away from other heat sources. If you expose the fuel bottle to high heat, it will explode or leak
 and you can be killed or seriously burned.
- Follow all warnings on fuel bottle regarding use and storage.
- Do not disassemble stove beyond what is described in these instructions. DO NOT MODIFY THIS STOVE. Disassembly or modification of stove in any manner not consistent with these instructions voids warranty and can result in an unsafe situation where fire, burns, severe injury or death can occur.
- Do not use stove if parts are missing or broken, or with replacement parts not specific to your stove model. Use of stove with
 missing or broken parts, or with replacement parts not specific to your stove model, can result in an unsafe situation where
 fire, burns, severe injury or death can occur.

Cascade Designs, Inc. warrants the use of appropriately-sized MSR® brand cookware only—use of cookware other than MSR® brand cookware is at user's own risk and discretion.

WHISPERLITE[™] INTERNATIONAL INSTRUCTIONS

ADANGER Do not use this stove: (1) before reading and fully understanding this Instruction Manual; (2) if you are not prepared or comfortable attending to a burning and/or hot stove and it imas; (3) if you observe any conditione the leaking fuel; or (4) if you observe any condition with the stove system or in the surrounding environment that would make operation of an open flamed device dangerous. Failure to follow these directions can cause an unsafe situation leading to fire, burns, severe injury or death.

STOVE PARTS A. Burner Head B. Pot Supports/Legs C. Mixer Tube D. Jet	E. Rim Detent F. Shaker Needle G. Generator Tube H. Windscreen	I. Priming Cup J. Fuel Line (Brass) End K. Catch Arm	L. Heat Reflector M. Jet and Cable Tool
FUEL PUMP PART N. Plunger Bushing O. Plunger Bushing Tab P. Plunger Q. Fuel Pump Groove	R. Pump Seal		V. Fuel Tube O-ring W. Fuel Tube Bushing X. Pump Cup

FUEL INFORMATION The WhisperLite™ International stove burns a variety of fuels by using two interchangeable Jets

1. UG let – White Gas and Unleaded Auto Gas. This Jet is preinstalled in your stove.

2. UK Jet - Kerosene. This Jet is included in the parts kit with your stove. To exchange Jets, see Cleaning the Jet and Fuel Line.

Use MSR® SuperFuel[®] (White Gas) for optimal performance. It is the highest quality fuel available for your stove. Do not use leaded fuels. Fuels other than MSR SuperFuel white gas can lead to rapid stove clogging and require more frequent Jet and Fuel Line cleanings. Also, the use of Unleaded Auto Gas may shorten stove lifespan.

Visit www.msrgear.com for more information on international fuel names and safe stove

STOVE MAINTENANCE

e performance. Mino deposite Deposits in the Jet and Fuel Line reduce fuel flow and impair stove performance. Minor deposits in the Jet can be cleared with the Shaker Needle. Major deposits may require more extensive cleaning of the Jet and Fuel Line. At a minimum, perform the following maintenance annually or every time you perform the Pump Maintenance.

Shake Stove

Priming

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Jet

5 in. (13 cm) Strokes 20x

Scour the Fuel Line

Remove Cable

CLEARING THE JET WITH THE SHAKER NEEDLE 1. Close Pump Control Valve and wait 5 minutes for stove to cool. 2. Shake stove up and down. Shaker Needle inside Jet should rattle. 3. Preheat and run stove. If performance does not improve, perform Cleaning the Jet and Fuel Line steps.

CLEANING THE JET AND FUEL LINE

CLEANING THE JET AND FUEL LINE 1. Fold Pot Supports/Legs to packed position. 2. Unscrew Furining Cup and remove Wick. 3. Hold folded Pot Supports/Legs together. Remove Fuel Line from Mixer Tube. 4. Unscrew Jet with Jet and Cable Tool. *IMPORIANI: Do not* bend Generator Tube while Ioosening Jet. 5. Remove Shaker Needle and use it to dear Jet Orffice from top or bottom. NOTE: To exchange Jets, polese Shaker Needle in new Jet and reassemble stove. 6. Scour Fuel Line. Remove Cable from Fuel Line with Jet and Cable Tool. Stubborn cables can be lossened with a common lubricant (WD-40°; Pump Cup Oil, etc.). Fully reinsert Cable into Fuel Line. Move Cable in and out with Sinch (13-centimeter) strokes approximately 20 times. 7. Flush Fuel Line. Remove Cable. Insert Fuel Line into Pump Groove. Pressurize Fuel Bottle with 15 strokes. Fully open Control Valve to flush 4 spoonfuls of fuel Hrough Fuel Line into an appropriate container. (Jet uninstalled.) DANCER: Keep away from giniton sources. Close Control Valve and remove Fuel Line. Safely dispose fuel when flushing is complete. 8. Reassemble stove. If stove performance is still impaired, repeat Cleaning the Jet and Fuel Line steps.

PUMP MAINTENANCE

Orings can become dry, cracked or torn with use. Their lifespan is affected by dirt, debris, temperature, friction and frequency of use. For this reason, please inspect your Orings before every trip. Replace dry, cracked, or torn Orings immediately, and replace all Orings annually, s of anneara ice. Replacement O-rinas and Pump S als can be found in the Annuc

Maintenance Kit, or the more comprehensive Expedition Service Kit, purchased separately from an MSR® dealer.



Limited Warranty details at msrgear.com/warranty For Troubleshooting Solutions, visit: msrgear.com/whisperlite-international

WHISPERLITE™ INTERNATIONAL STOVE OPERATING INSTRUCTIONS To avoid being killed or seriously injured, READ, UNDERSTAND, AND FOLLOW ALL instructions and warnings in this manual before using this stove.

Please familiarize yourself with the parts of your WhisperLite International stove. This stove requires a priming or preheating step to convert liquid fuel into vapor to run properly. Priming or preheating the stove is addressed in **Step 3.**

I. Priming Cup

J. Fuel Line (Brass) End

K. Catch Arm

STOVE PARTS

P Plu Q. Fuel Pump Groove

F. Rim Detent A. Burner Head B. Pot Supports/Legs C. Mixer Tube F. Shaker Needle G. Generator Tube D. Jet

H. Windscreen FUEL PUMP PARTS R. Pump Seal S. Pump Body T. Check Valve U. Control Valve Assembly N. Plunger Bushing O. Plunger Bushing Tabs

M. Jet and Cable Tool

L. Heat Reflect

V. Fuel Tube O-ring W. Fuel Tube Bushing X. Pump Cup



DANGER Use MSR® fuel bottles only. Non-MSR fuel bottles may leak fuel creating an unsafe situation leading to fire, burns, severe injury or death. Keep children for away from stove and fuel — Cascade Designs, Inc. recommends no less than 10 feet (3+ meters). Never leave a burning or hot stove unattended. An unattended stove can lead to fire and/ or a situation whate children, pets, or the unwary can be burned, injured, or killed. Use extreme caution when using stove in temperaturus below frezing. In frezing temperatures before frezing thereing temperatures before frezing temperatures before frezing thereing temperatures before frezing thereing temperatures before frezing temperatures before and drifter inglitting stove. Use of a leaking stove can cause fire, burns, severe injury or death.

1. SET UP STOVE 1. Unfold the 3 Pot Supports/Legs. Rotate Pot Supports/Legs fully open. 2. Place stove on the center of the Heat Reflector.

DANGER Keep combustibles at least 4 feet (1.2 meters) away from the top and sides of a burning stove or a stove that you are in the process of lighting. Keep flammable liquids and vapors at least 25 feet (7.6 meters) away from the top and sides of a burning stove or a stove that you are in the process of lighting. This stove can ignite combustible materials, flammable liquids and vapors creating a situation where fire, burns, severe injury or death can result. This stove is designed for the outside (i.e., not writhin endouse spaces of onry kind; e.g., tents) billing of water or cooking of food and —mever use it for any other purpose. Use of stove within any endosure, or for a purpose other than boiling water or cooking food can cause fire, burns, severe injury or death.

2. CONNECT STOVE AND PUMP 1. Lubricate the entire brass end of the Fuel Line with saliva or oil. 2. Completely insert brass end of Fuel Line into Pump. Place Fuel Bottle on its side so Pump Control Valve points up. 3. Secure the Catch Arm on Fuel Pump Groove. Keep Fuel Line straight for safety. Keep Fuel Bottle as far away from stove as possible.

Ancer Before every use, look for fuel on the fuel bottle, pump, fuel line, burner, and on the area beneath and around stove. Do not light stove if you see or smell fuel. (See Troubleshooting.) Use of stove where fuel has leaked and/ or is leaking can cause fuel to ignite causing fire, burns, severe injury or death. Never disconnect the fuel line, pump, or fuel bottle when stove is burning, hot, or near any open flame. Never disconnect fuel line, pump, or fuel bottle when control valve is in an open (i.e., fuel flowing) position. Disconnecting fuel line, pump, or fuel bottle when stove is burning, hot, or near any open flame, or disconnecting fuel line, pump, or fuel bottle when control valve is in an open (i.e., fuel flowing) position can lead to spilled fuel that can ignite and cause fire, burns, severe injury or death.

3. PREHEAT STOVE 1. Release only 1/2 spoonful of fuel. Open Control Valve (3/4 turn) and lef tuel flow through the Jet. Close Pump Control Valve. Look for fuel in Priming Cup and on Wick. 2. Light fuel in the Priming Cup. A brief soccer ball-sized flame is normal.













FOR OUTDOOR USE ONLY





Cascade Designs, Inc.

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ANGER Never place your head or body above the stove while priming, lighting, or cooking. Because stove maintains an open flame, placement of head or body above stave is an unsafe practice that can cause fire, burns, severe injury or death. Never use excess fuel to preheat stove. Use of excess fuel for priming can lead to leaking or spilled fuel that can cause fire, burns, severe injury or death.

4. TURN STOVE ON 1. Wait for preheat flame to reduce in size (approximately 2 minutes). If flame goes out, wait 5 minutes for stove to cool before relighting. 2. Open Pump Control Valve (1/2 turn) and wait for steady blue flame. 3. Slowly open Pump Control Valve.

ANGER Never relight a heated stove. Always let an extinguished stove cool for at least 5 minutes before relighting. Relighting a heated stove can cause large flames that can cause fire, burns, severe injury or death. Never move a burning or hat stove. Always extinguish stove and cool for at least 5 minutes before moving. Moving a burning or hat stove can cause fire, burns, severe injury or death.

5. USE STOVE TO COOK 1. Set up Windscreen. Fold the ends of Windscreen together. Leave a 1-inch (2.5-cm) gap between Windscreen and pot for optimal performance. Ensure that combustion flow and ventilation air are free of any obstruction. Use Windscreen to improve per-formance in all conditions. 2. Add appropriate food or liquid to cookware and place on center of stove. 3. Maintain Fuel Bottle pressure. Add approximately 10 strokes every 10 minutes to maintain performance. Hold Fuel Bottle firmly while pumping.

ADANGER Keep fuel bottle away from the stove burner and other heat sources. Position connected fuel bottle so that it is as far away from the burner as possible. Use of bottle near burner or other heat sources can result in the fuel bottle exploding and causing fire, burns, severe injury or death. Never place Windscreen around fuel bottle. Never use cookware with a diameter greater than 10 inches (25 certimeters). Never place and operate two or more stoves together. Never operate a durineer gleater minit, were provided to be a start of the second seco than MSR® brand cookware will be at user's own risk and discretion.

6. TURN STOVE OFF 1. Close Pump Control Valve. Residual fuel will continue to burn with a small flame. 2. After flames are out, wait 5 minutes for stove to cool. 3. Unlock Catch Arm and remove Fuel Line from Pump. 4. Depressurize Fuel Bottle and repack stove. Hold Fuel Bottle upright, away from your face and any sources of heat or ignition. Slowly unscrew pump to depressurize Fuel Bottle. NOTICE: To transport the Fuel Bottle, the Pump may be left inside a depressurize fuel Bottle. The Pump can also be removed and replaced with the Fuel Bottle Cap.

ANGER Always store fuel bottle with cap securely tightened where it cannot be accessed by children. Storage of fuel bottle with loose cap and/or where accessible by children can result in a child obtaining possession of fuel bottle and accessing bottle contents. Exposure to bottle contents topically and/or by ingestion can cause paisoning, severe injury, or death. Always store fuel bottle in a well-ventilated location away from any possible heat or ignition source can result in the fuel bottle exploding and causing fire, burns, severe injury or death.

TROUBLESHOOTING				
Leaking Fuel	Cause	Solution		
At Pump and Fuel Bottle Connection	Damaged or missing Pump Seal	Replace Pump Seal		
At Pump and Fuel Line Connection	Damaged or missing Fuel Tube O-ring	Replace Fuel Tube O-ring		
At Control Valve Stem	Damaged or missing Control Valve O-ring	Replace Control Valve O-ring		
In Pump Plunger Chamber	Obstructed Check Valve	Clean Check Valve Cavity		
Poor Performance	Cause	Solution		
Pump not pressurizing Fuel Bottle	Loose or poorly seated Pump	Tighten or rescrew Pump on Fuel Bottle		
Ботте	Damaged Pump Cup	Replace Pump Cup		
Plunger hard to pump	Dry Pump Cup	Lubricate Pump Cup		
Erratic yellow flames	Improper preheating	Repeat Step 3		
Diminished flames	Low Fuel Bottle pressure	Pump the Plunger		
Slow boil times	Clogged Jet or Fuel Line	Clear Jet and clean Fuel Line		
Diminished flames at altitude	Insufficient airflow	Open Windscreen slightly		