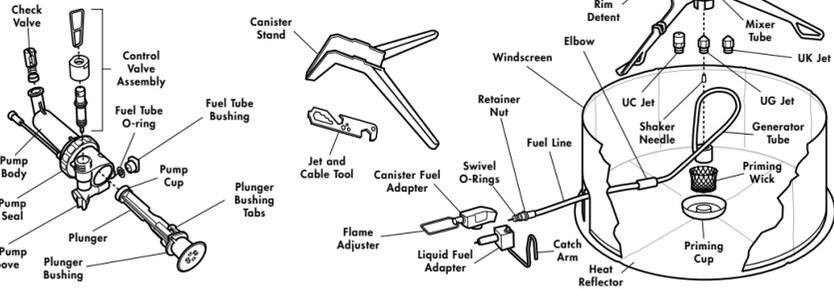


KNOW YOUR MSR® WHISPERLITE™ UNIVERSAL STOVE

Please familiarize yourself with the parts of your WhisperLite Universal stove and the following instructions before its use. Because this stove can accommodate different fuels, you may need to exchange the preinstalled UC Jet and the Canister Fuel Adapter before using this stove.



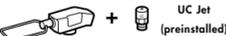
WARNING

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 at all times; (3) if you observe 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 PREPARATION

The WhisperLite™ Universal stove can be easily configured to burn white gas and unleaded gas, kerosene, and canister fuels. Before stove use, select the fuel and install the appropriate Jet and Fuel Adapter. (See *Fuel Information*.)

CANISTER FUELS



WHITE GAS AND UNLEADED AUTO GAS



KEROSENE



CONFIGURING STOVE FOR DIFFERENT FUELS

CHANGING THE JET

1. Fold Pot Supports/Legs.
 2. Unscrew Priming Cup and remove Wick.
 3. Remove Fuel Line from stove.
 4. Loosen current Jet with Jet and Cable Tool.
 - ↳ Carefully unscrew Jet to avoid losing Shaker Needle inside the Elbow.
- IMPORTANT: Do not bend Generator Tube while removing Jet.
5. Set new Jet carefully over the Shaker Needle and screw into place.
 - ↳ Gently tighten the Jet with Jet and Cable Tool.
 6. Hold folded Pot Supports/Legs together and reinstall Fuel Line.
 - ↳ Replace Wick and rescrew Priming Cup to reassemble stove.

CHANGING THE FUEL ADAPTER

1. Loosen Retainer Nut on current Fuel Adapter with Jet and Cable Tool.
2. Unthread Retainer Nut and disconnect Fuel Adapter from Fuel Line.
3. Insert end of Fuel Line into new Fuel Adapter.
4. Gently tighten Retainer Nut with Jet and Cable Tool.

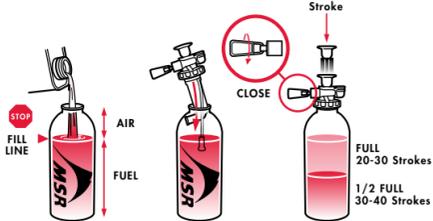


FUEL BOTTLE PREPARATION

Ensure that the WhisperLite™ Universal stove is configured with the correct Jet and Fuel Adapter. (See *Stove Preparation*.) If using a liquid fuel, prepare the Fuel Bottle before using the stove. If using a canister fuel, skip this panel and go now to **Step 1, Set Up Stove**.

PREPARING FUEL BOTTLE FOR LIQUID FUELS

1. Fill Fuel Bottle to fill line only.
 - ↳ Air space is necessary for fuel expansion.
2. Insert Pump into Fuel Bottle and firmly tighten.
3. Check Fuel Bottle for leaks before pressurizing the bottle.
4. Close the Control Valve, then stroke Plunger (20-30 strokes).
 - ↳ Pump until firm resistance is felt.
 - ↳ Less fuel requires more strokes or pressure.

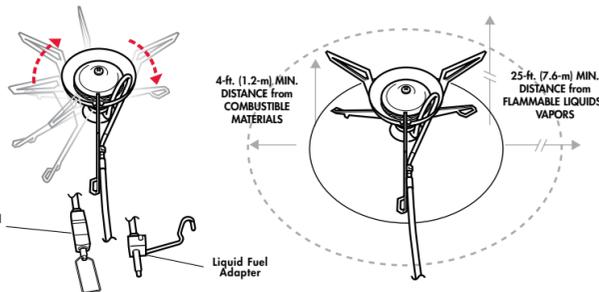


WARNING

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 far 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 where children, pets, or the unwary can be burned, injured, or killed. Use extreme caution when using stove in temperatures below freezing. In freezing temperatures O-rings can stiffen and leak fuel. Always check for fuel leaks before and after pressurizing bottle, priming, and during and after lighting stove. Use of a leaking stove can cause fire, burns, severe injury or death.

7 SET UP STOVE

1. Close Control Valve/Flame Adjuster Valve.
2. Unfold the 3 Pot Supports/Legs.
 - ↳ Rotate Pot Supports/Legs fully open.
3. Place stove on the center of the Heat Reflector.



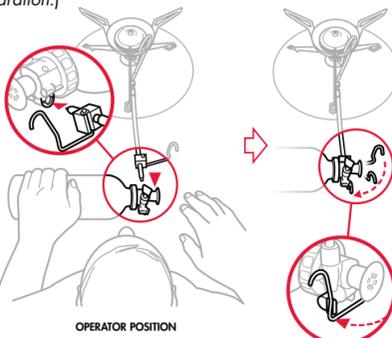
WARNING

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 within enclosure spaces of any kind, e.g., tents) and for the boiling of water or cooking of food only—never use it for any other purpose. Use of stove within any enclosure or for a purpose other than boiling water or cooking food can cause fire, burns, severe injury or death.

2 CONNECT STOVE

Use UG Jet and Liquid Fuel Adapter for white gas and unleaded auto gas. Use UK Jet and Liquid Fuel Adapter for kerosene. (See *Stove Preparation*.)

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



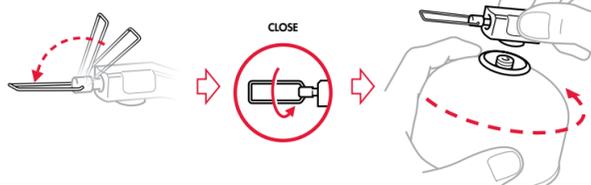
WARNING

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 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. Disconnecting 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.

2 CONNECT STOVE

Use UC Jet and Canister Fuel Adapter for all canister fuels. (See *Stove Preparation*.)

1. Unfold Flame Adjuster.
2. Close Flame Adjuster Valve on Canister Fuel Adapter.
3. Screw Fuel Canister onto Canister Fuel Adapter.

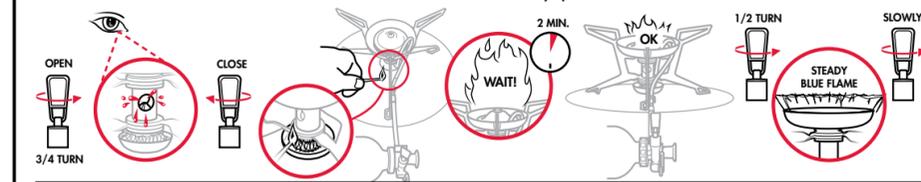


WARNING

Never overtighten fuel canister to stove. Overtightening can damage stove or canister and cause fuel to leak. Leaking fuel can cause fire, burns, severe injury or death. Use extreme caution when using stove in temperatures below freezing. In freezing temperatures O-rings can stiffen and leak fuel. Always check for fuel leaks before and after lighting stove. Use of a leaking stove can cause fire, burns, severe injury or death. Never relight a heated stove. Always let an extinguished stove cool for at least 5 minutes before relighting. Relighting a heated stove can produce large flames that can cause fire, burns, severe injury or death. An unattended stove can lead to fire or a situation where children, pets, or the unwary can be burned, injured, or killed. The canister must be constructed and marked in accordance with the CAN/CSA 339.

3 TURN STOVE ON

1. Release only 1/2 spoonful of fuel.
 - ↳ Open Control Valve (3/4 turn) and let fuel flow through the Jet.
 - ↳ Close Control Valve.
 - ↳ Look for fuel in Priming Cup and on Wick.
2. Light fuel in Priming Cup.
 - ↳ A brief soccer ball-sized flame is normal.
3. Wait for preheat flame to reduce in size (approximately 2 minutes).
 - ↳ If flame goes out, wait 5 minutes for stove to cool before relighting.
4. Open Control Valve (1/2 turn) and wait for steady blue flame.
5. Slowly open Control Valve.



WARNING

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 stove is an unsafe practice that can cause fire, burns, severe injury or death. Never use excess fuel for priming can lead to leaking or spilled fuel that can cause fire, burns, severe injury or death. Never relight a heated stove. Always let an extinguished stove cool for at least 5 minutes before relighting. Relighting a heated stove can produce large flames that can cause fire, burns, severe injury or death. Never move a burning or hot stove. Always extinguish stove and cool for at least 5 minutes before moving. Moving a burning or hot stove can cause fire, burns, severe injury or death.

3 TURN STOVE ON

IMPORTANT: ALWAYS START STOVE WITH FUEL CANISTER IN UPRIGHT POSITION TO PREVENT A LARGE FLARE-UP.

VAPOR FEED MODE (most conditions, best simmering)

1. Hold a lit match or lighter over the edge of Burner Head.
2. Open Flame Adjuster Valve (3/4 turn) to release and ignite fuel.
3. Turn Flame Adjuster Valve to produce and maintain steady blue flame.



LIQUID FEED MODE (very cold conditions or higher output/faster boiling)

1. Attach Canister Stand onto top of Canister Fuel Adapter.
2. Hold a lit match or lighter over the edge of the Burner Head.
3. Open Flame Adjuster Valve (3/4 turn) to release and ignite fuel.
 - ↳ Allow fuel to burn for 30 seconds to sufficiently preheat stove.
4. Invert Fuel Canister, using Canister Stand to support it.
5. Turn Flame Adjuster Valve to produce and maintain steady blue flame.

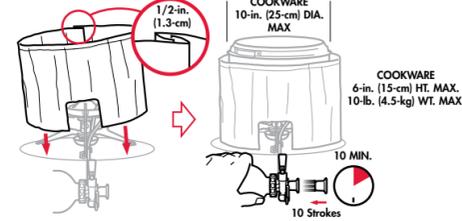


WARNING

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

4 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 performance in all conditions.
2. Add appropriate food or liquid to cookware.
3. Place cookware onto center of stove.
4. Maintain Fuel Bottle pressure.
 - ↳ Add approximately 10 strokes every 10 minutes to maintain performance.
 - ↳ Hold Fuel Bottle firmly while pumping.

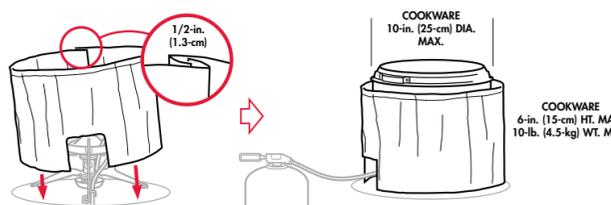


WARNING

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 centimeters). Never place and operate two or more stoves together. Never operate stove with empty or dry cookware. Never use non-MSR® reflectors or diffusers. Use of stove in any of the preceding manners can result in the fuel bottle exploding and causing fire, burns, severe injury or death. Never use cookware of any size that is ill-suited or inappropriate for use with stove or stove pot supports (e.g., cookware with a convex or concave bottom, some enameled cookware, etc.). Use of stove with ill-suited and/or inappropriate cookware can result in cookware and/or stove instability and a situation where hot cookware and/or cookware contents can spill and cause fire, burns, severe injury or death. Cascade Designs, Inc. warrants the use of appropriately sized MSR® brand cookware only—use of cookware other than MSR® brand cookware will be at user's own risk and discretion.

4 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 performance in all conditions.
2. Add appropriate food or liquid to cookware.
3. Place cookware onto the center of stove.

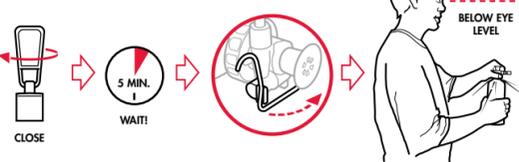


WARNING

Never use cookware with a diameter greater than 10 inches (25 centimeters). Never place and operate two or more stoves together. Never operate stove with empty or dry cookware. Never use non-MSR® reflectors or diffusers. Use of stove in any of the preceding manners can result in the fuel canister exploding and causing fire, burns, severe injury or death. Never use cookware of any size that is ill-suited or inappropriate for use with stove or stove pot supports (e.g., cookware with a convex or concave bottom, some enameled cookware, etc.). Use of stove with ill-suited and/or inappropriate cookware can result in cookware and/or stove instability and a situation where hot cookware and/or cookware contents can spill and cause fire, burns, severe injury or death. Cascade Designs, Inc. warrants the use of appropriately sized MSR® brand cookware only—use of cookware other than MSR® brand cookware will be at user's own risk and discretion.

5 TURN STOVE OFF

1. Close the Control Valve.
 - ↳ Residual flame 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.



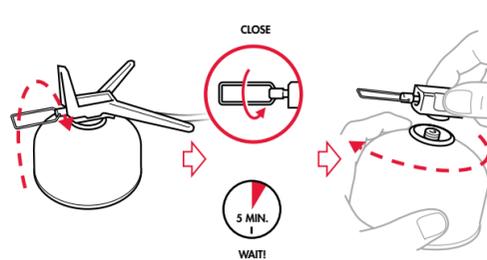
NOTICE: To transport the Fuel Bottle, the Pump may be left inside a depressurized Fuel Bottle. The Pump can also be removed and replaced with the Fuel Bottle Cap.

WARNING

Always store fuel bottle with cap securely tightened where it cannot be accessed by children. Storage of fuel bottle with loose cap and easy accessibility by children can result in a child opening the fuel bottle and accessing bottle contents. Exposure to or ingestion of bottle contents can cause poisoning, severe injury, or death. Always store fuel bottle in a well-ventilated location away from any possible heat or ignition source, such as water heaters, stoves, pilot lights, or furnaces. Storing bottle near any heat or ignition source can result in the fuel bottle exploding and causing fire, burns, severe injury or death.

5 TURN STOVE OFF

1. Place the Fuel Canister in the upright position if inverted.
2. Close the Flame Adjuster Valve.
 - ↳ Residual flame will continue to burn with a small flame.
3. After flames are out, wait 5 minutes for stove to cool.
 - ↳ Remove Canister Stand if attached.
 - ↳ Fold Flame Adjuster Valve.
4. Ensure that burners are extinguished.
 - ↳ Fold Pot Supports/Legs.
5. Move stove assembly away from any ignition sources and unscrew Fuel Canister.
 - ↳ A small amount of gas may escape when unscrewing canister.



If canister is completely empty of fuel, follow proper disposal requirements in your local area.

WARNING

Always disconnect stove from canister before storing it. Failure to disconnect stove from canister before storing may allow fuel to leak and cause fire, burns, severe injury or death. Always store fuel canisters in a well-ventilated location away from any possible heat or ignition source, such as water heaters, stoves, pilot lights, or furnaces, or where temperatures exceed 120 F (49 C). Storing fuel canisters near any heat or ignition source or where temperatures exceed 120 F (49 C) can result in the canister exploding and causing fire, burns, severe injury or death.

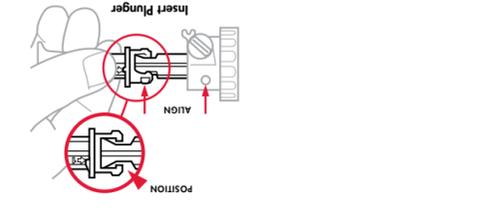
PUMP AND FUEL ADAPTER MAINTENANCE

O-rings 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 O-rings before every trip. Replace dry, cracked, or torn O-rings annually, regardless of appearance. Replacement O-rings and Pump Seals can be found in the Annual Maintenance Kit or the more comprehensive Expedition Service Kit, purchased separately from an MSR® dealer.

REPLACING FUEL TUBE O-RING

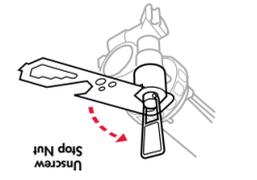
1. Remove Plunger.
2. Remove Fuel Tube Bushing and O-ring with Jet and Cable Tool.
3. Inspect O-ring and replace if damaged. Remove the O-ring with the end of the Liquid Fuel Adapter or Safety Pin.
4. Lubricate Pump Cup. Use a drop of Pump Cup Oil in place. Push Plunger/Bushing into the Pump Body with holes in Pump Body.
5. Insert Plunger. Hold thumb and forefinger firmly around Arrow 1. Align Plunger Bushing Tabs with holes in Pump Body.

1. Turn Check Valve Assembly to remove. Wipe any debris from Check Valve and Pump Cavity.
2. Reinsert Check Valve Assembly. Reinsert Check Valve Assembly.
3. Reinsert Check Valve Assembly. Reinsert Check Valve Assembly.



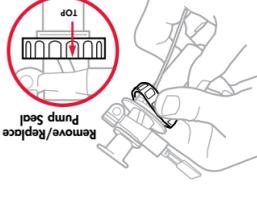
REPLACING CONTROL VALVE O-RING

1. Unscrew Stop Nut 2 turns.
2. Unscrew Control Valve 6 turns.
3. Unscrew Stop Nut completely and remove Control Valve Assembly.
4. Inspect O-ring and replace if damaged. Remove Control Valve handle from stem.



REPLACING PUMP SEAL

1. Inspect Pump Seal and replace if damaged.
2. Remove O-ring with Safety Pin. Slide Stop Nut off from stem.
3. Reinsert Pump Seal and replace if damaged.



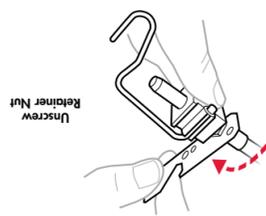
CLEANING THE CHECK VALVE

1. Turn Check Valve Assembly to remove. Wipe any debris from Check Valve and Pump Cavity.
2. Reinsert Check Valve Assembly. Reinsert Check Valve Assembly.

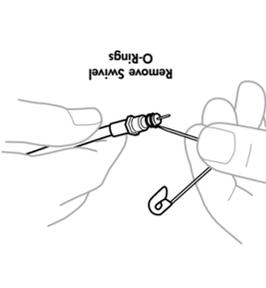


REPLACING FUEL ADAPTER SWIVEL O-RINGS

1. Unscrew Fuel Adapter from Fuel Line.
2. Unscrew Stop Nut 2 turns.
3. Unscrew Control Valve 6 turns.
4. Reinstall Fuel Line into Fuel Adapter.



1. Fold Pot Supports/Legs to packed position.
2. Unscrew Priming Cup and remove Wisk.
3. Hold folded Pot Supports/Legs together.
4. Unscrew Jet with Jet and Cable Tool.



Do not disassemble stove or pump beyond what is described in these instructions. Disassembly or modification of stove or pump 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. 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.

WARNING

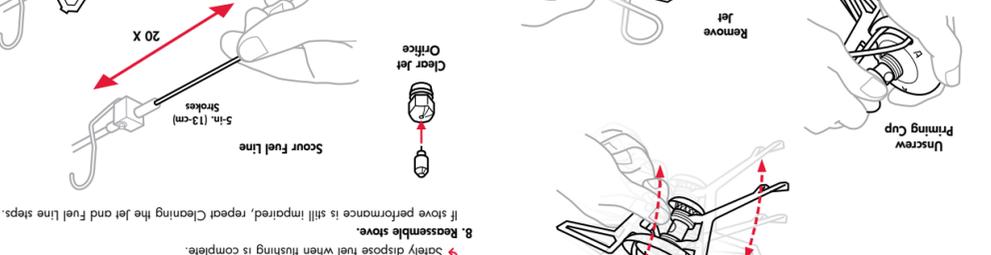
STOVE MAINTENANCE

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 extensive cleaning of the jet and fuel line. At a minimum, perform the following maintenance annually or every time you perform more extensive cleaning of the jet and fuel line.

CLEANING 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.
3. Preheat and run stove.
4. Reinstall Fuel Line into Fuel Adapter.

1. Fold Pot Supports/Legs to packed position.
2. Unscrew Priming Cup and remove Wisk.
3. Hold folded Pot Supports/Legs together.
4. Unscrew Jet with Jet and Cable Tool.



TROUBLESHOOTING

Problem Leaking Fuel

Cause Damaged or missing Pump Seal

Solution Replace Pump Seal

Problem Pump not pressurizing fuel

Cause Loose or poorly seated Pump on Fuel Bottle

Solution Tighten or reseal Pump on Fuel Bottle

Problem Diminished flames

Cause Low fuel bottle pressure

Solution Pump the Plunger

Problem Stove does not light

Cause Cold container

Solution Swap container

Problem Erratic yellow flames

Cause Improper preheating

Solution Repeat Step 3

INSTRUCTION MANUAL



MSR®
MOUNTAIN SAFETY RESEARCH®

WHISPERLITE™ UNIVERSAL STOVE

Retain these instructions for future reference.

FOR OUTDOOR USE ONLY

SA C US

CE 0051

2009/142/EC
(51802370-2011)
CATEGORY: VAPOR PRESSURE BUTANE PROPANE

Nominal Heat Input Rate:
3.6 kW
255 g/h

Stove Orifice Size (LPG): 0.31 mm

NOTE: Nominal Heat Input Rate varies depending on test procedures of the particular standards agency.

DANGER



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.

This stove is for OUTDOOR USE ONLY. Never use this stove in a tent, vestibule, car, house, or inside any enclosed area. This stove consumes oxygen and produces carbon monoxide gas, which is poisonous and has no odor. This stove can easily ignite nearby combustible materials and flammable liquids or vapors. If you use this stove in an enclosed area you can be killed or seriously burned.

Keep stove and fuel bottle or fuel canister away from other heat sources. Never use cookware or an Outback Oven™ with a diameter larger than 10 inches (25 centimeters). Oversized cookware can overheat the fuel bottle or fuel canister. If you expose the fuel bottle or fuel canister to high heat, it will explode and you can be killed or seriously burned.

Never let children use this stove. Keep children at least 10 feet (3+ meters) away from the stove and cooking area and supervise them at all times.

READ, UNDERSTAND, AND FOLLOW ALL instructions and warnings in this manual before using this stove. Failure to follow warnings and instructions can result in death, serious burns or other injury, and property damage.

LIMITED WARRANTY/LIMITATIONS OF REMEDIES AND LIABILITY USA and Canada

Limited Warranty. Cascade Designs, Inc. ("Cascade"), to the original owner ("Owner"), under intended use and maintenance, warrants the enclosed product ("Product") to be free from defects in materials and workmanship for the life of the Product. No warranty against defects in materials and workmanship will apply if Product is (i) altered in any way, (ii) used for purposes inconsistent with Product's intended purpose or design, or (iii) improperly maintained. Warranty will furthermore be voided where Owner/user (i) failed to follow Product instructions or warnings or (iii) suspected Product to misuse, abuse, or neglect.

During the warranty period, original Product parts determined by Cascade to be defective in materials or workmanship will be repaired or replaced as Owner's sole remedy. Cascade reserves the right to replace any discontinued product with a new product of comparable value and function. A returned product deemed irreparable becomes the property of Cascade and will not be returned.

EXCLUDING THE LIMITED WARRANTY PROVIDED ABOVE, CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS, TO THE MAXIMUM EXTENT PERMITTED BY LAW, MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, AND DISCLAIM ALL WARRANTIES, DUTIES AND CONDITIONS, WHETHER EXPRESSED, IMPLIED OR STATUTORY WITH RESPECT TO THE PRODUCT, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, AGAINST LATENT DEFECTS, FITNESS FOR A PARTICULAR PURPOSE, OR CORRESPONDENCE TO DESCRIPTION.

Warranty Service. To obtain service under this warranty, the warranty-eligible Product must be presented to a Cascade authorized dealer. In the United States and Canada, warranty service may also be obtained by calling 1-800-531-9531 [M-F, 8:00-4:30, PDT].

Owner is responsible for all costs associated with returning Product to Cascade for service. Where at its sole discretion Cascade deems Product eligible for warranty repair or replacement, Cascade will pay the shipping and handling associated with returning repaired or replaced Product to Owner. In instances where Cascade deems a returned product ineligible for warranty service, Cascade will, if possible, repair product for a reasonable fee that includes return shipping and handling. For warranty return service details, please go to www.msrgear.com.

Limitation of Remedies. Should a court of competent jurisdiction find the limited warranty set forth above breached, Cascade's only obligation will be, at its option, either to repair or replace Product. Should the aforementioned remedy fail of its essential purpose, Cascade will, in exchange for return of Product, refund to Owner the Product's original purchase price. THE FOREGOING REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE PURCHASER AGAINST CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS, REGARDLESS OF LEGAL THEORY.

Limitation of Liability. Cascade's, its affiliates' and their suppliers' maximum liability is limited to incidental damages not to exceed the original purchase price of the Product. CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS HEREBY DISCLAIM AND EXCLUDE ANY LIABILITY FOR ANY CONSEQUENTIAL OR OTHER DAMAGES RESULTING FROM ANY REASON WHATSOEVER. THIS EXCLUSION AND LIMITATION APPLIES TO ALL LEGAL THEORIES UNDER WHICH DAMAGES MAY BE SOUGHT AND WILL APPLY EVEN IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE.

This limited warranty gives Owner specific legal rights; Owner may have additional rights, which may vary state to state.

Always completely follow safety, use, operation, and maintenance instructions for this or any other Cascade product.

European Union customer statutory rights are not affected.

FUEL INFORMATION

USA/UK/CANADA	GERMANY/SWITZERLAND	JAPAN	FRANCE	NETHERLANDS	SPAIN
LIQUID FUEL					
White Gas, Naphtha	Kocherbenzin, Reinbenzin	White Gas	Pétrole à brûler, Essence C	Wasbenzine	Bencina blanca
Kerosene	Petroleum	Tohyu	Kérosène	Petroleum Lampolie	Parafina
Unleaded Auto Gas	Autobenzin	Gasoline	Essence sans plomb	Benzine	Gasolina sin plomo
CANISTER FUEL					
Butane, Isobutane, Propane	FLÜSSIGBRENNSTOFF KARTUSCHE	KYANISUT KA	CARTOUCHE DE GAZ	TANK ONDER DRIJK	BOMBONA DE GAS
Butan, Isobutan, Propan	Butan, Isobutan, Propan	Butan, Isobutan, Propan	Butan, Isobutan, Propan	Butan, Isobutan, Propan	Butano, Isobutano, Propano

DANGER

CARBON MONOXIDE HAZARD

This stove produces 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, car, or home.

FOR YOUR SAFETY

If you smell gas

1. Do not attempt to light stove.
2. Extinguish any open flame.
3. Disconnect from fuel canister.

FOR YOUR SAFETY

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

IMPORTANT

Read and understand this entire manual carefully before assembling or using this stove. Keep this manual for future reference. If you do not understand this manual or have any questions, please call Cascade Designs, Inc. at 1-800-531-9531.

Problem Erratic flames, loud burning noise

Cause Incorrect Jet/Fuel Adapter configuration

Solution Check Jet and Adapter - install correct configuration for fuel in use

Problem Stove does not light

Cause Cold container

Solution Swap container

Problem Diminished flames

Cause Low fuel

Solution Replace container

Problem Pump not pressurizing fuel

Cause Loose or poorly seated Pump on Fuel Bottle

Solution Tighten or reseal Pump on Fuel Bottle

Problem Leaking Fuel

Cause Damaged or missing Pump Seal

Solution Replace Pump Seal