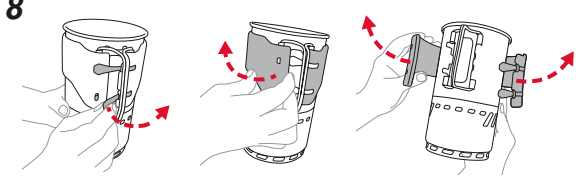
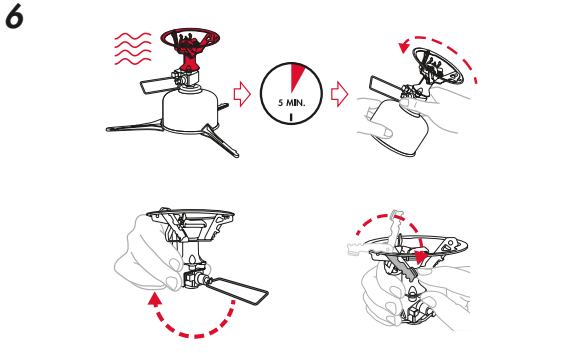
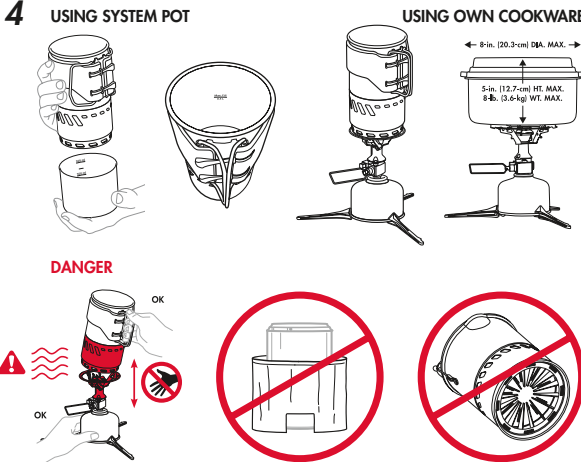
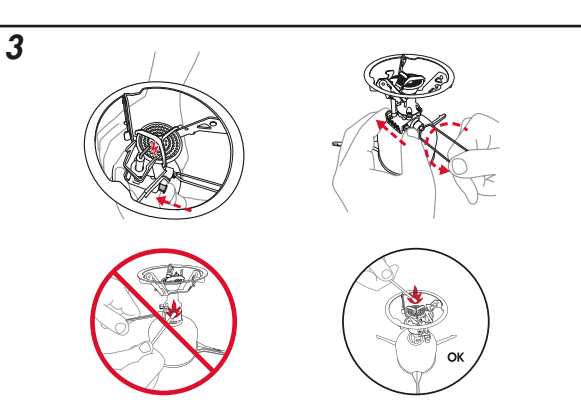
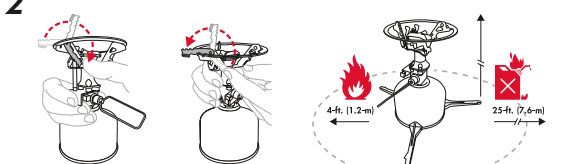
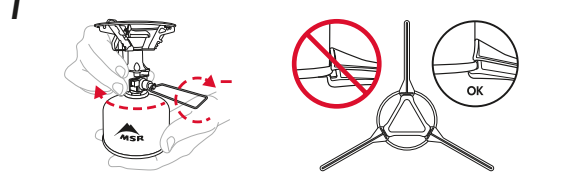
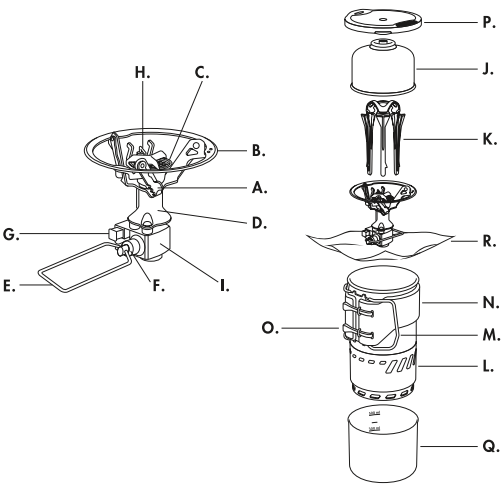


# INSTRUCTION MANUAL



## SWITCH™ STOVE SYSTEM INSTRUCTIONS

Retain these instructions for future reference.



CE0051 UKCA0086  
Nominal Heat Input Rate:  
2.1 kW  
161.2 g/h

Stove Orifice Size: 0.31 mm  
NOTE: Nominal Heat Input Rate varies depending on test procedures of the particular standard agency.



## DANGER FOR OUTDOOR USE ONLY CARBON MONOXIDE HAZARD

This stove can produce carbon monoxide, which is poisonous and 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.

## FIRE OR EXPLOSION HAZARD

If you smell gas: 1. Do not attempt to light appliance. 2. Make sure stove is in the off position. 3. Extinguish any nearby flame(s). 4. Disconnect fuel cylinder. 5. Leave the area immediately. 6. Allow gas to dissipate 5 minutes. 7. If gas smell has dissipated from the area of the appliance and fuel supply, follow gas connection procedures. 8. If you smell gas again, follow steps 1-6 and have appliance serviced. Failure to follow these instructions could result in fire or explosion, which could cause property damage, personal injury, or death.

## FOR YOUR SAFETY

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

**WARNING: Improper installation, use, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual. For assistance or additional information consult Cascade Designs.**



## 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 gas container. 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. 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. 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.

This stove uses a liquid pressurized gas (LPG) container that is highly flammable and explosive. This stove shall only be used with an MSR 80% isobutane / 20% propane gas cartridge certified to EN 417. It may be hazardous to attempt to fit other types of gas containers. Follow this safety information:

- Check that the seals between the stove and the gas container are in place and in good condition before connecting the stove to the cylinder. Do not use this stove if it has damaged or worn seals.
- Gas containers must be changed in a well ventilated location outside and away from any sources of ignition, such as naked flames, pilot lights, electric fires and away from other people.
- Listen and smell for leaking gas. Leaking gas is a serious hazard. LPG is invisible and odorless, and strong odorant additives can fade over time. Leaks are not always detectable by smell. Do not use this stove if it is leaking, damaged, or does not operate properly.
- Check that the stove and fuel container connection is secure and tight. If the connection does not look or feel secure, or if you hear or smell leaking gas and cannot stop the flow of gas, do not use stove or fuel container. Move it to a well-ventilated area away from any ignition source to locate and stop the leak.
- Check for leaks using soapy water. Do not try to detect leaks using a flame. Use of a leaking stove can cause fire, burns, severe injury or death.
- Never use fuel canisters that weigh more than 8 oz. (227 g) and never use canisters more than 4 inches (~10 cm) in height without an MSR LowDown™ Remote Stove Adapter, because oversized canisters increase stove instability.
- Use MSR canister stand when using canisters with a diameter less than 4 inches (~10 cm).
- Keep stove and fuel container away from other heat sources. Never use any kind of windscreen. If you expose the fuel container to high heat, it will explode or leak and you can be killed or seriously burned.
- Follow all warnings on fuel container regarding use and storage. Canister can be checked for remaining fuel by assembling and attempting to light stove.
- Do not store or use gasoline or other liquids with flammable vapors in the vicinity of this or any other stove.
- 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. No user-serviceable parts.
- 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.
- Stove should not be operated or stored at temperatures below 0°F / -18°C.

**DANGER** 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 flame device dangerous. Failure to follow these directions can cause an unsafe situation leading to fire, burns, severe injury or death.

## SWITCH™ STOVE SYSTEM INSTRUCTIONS

### STOVE PARTS:

- |                          |                         |                          |
|--------------------------|-------------------------|--------------------------|
| A. Pot Support Legs      | E. Flame Adjuster       | L. System Pot            |
| B. System Pot Support    | F. Flame Adjuster Valve | M. Pot Handles           |
| C. Piezo Starter Button  | G. Piezo Starter Button | N. Cork Cozy             |
| D. Centering Tabs        | H. Piezo Electrode      | O. Cozy Retention Straps |
| E. Burner Head, Diffuser | I. Pressure Regulator   | P. Pot Lid               |
| F. Plate & Wind Clip     | J. Fuel Canister        | Q. Base Cup              |
| G. Mixer Tube            | K. Canister Stand       | R. PackTowl              |

### 1. CONNECT STOVE & CANISTER

1. Unfold flame adjuster (E) and close flame adjuster valve (F) clockwise.
2. Hold stove by Pressure Regulator/Valve Body (I) and finger tighten stove onto the top of Fuel Canister (J) until connection is secure. DO NOT USE SUPPORT RING TO TIGHTEN OR REMOVE STOVE; this may damage components that interface with the System Pot. 3. Put Canister Stand (K) on Fuel Canister: Hook two legs to bottom of fuel canister before stretching third leg into place; for best stability, evenly space legs around canister. Ensure that Stand legs are clipped snugly against the Fuel Canister's bottom rim.

**DANGER** Never overtighten stove onto canister. Overtightening may damage stove or fuel canister, causing 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.

Keep children 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.

### 2. SET UP STOVE

1. Adjust Pot Support Legs (A) depending on the type of cookware you plan to use: 1a. If using System Pot (L), make sure Pot Support Legs are secured in their stowed position; if necessary, rotate each Pot Support inward until it locks into place. Note: System Pot Support Ring is only to be used with Switch System Pot. 1b. If using cookware other than the System Pot, flip out Pot Support Legs; rotate each Pot Support Leg until each contacts the System Pot Support Ring (B). Note: Pot Support Legs are only to be used with flat-bottom cookware without heat-exchanging features like fins. 2. Clear the cooking area of combustible materials and flammable liquids or vapors. 3. Place stove assembly on a solid, stable, even surface.

**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 nearby combustible materials, flammable liquid and vapors, creating a situation where fire, burns, severe injury, or death can result.

Never attempt to light stove if Flame Adjuster is left open. If Flame Adjuster is left open, close it immediately and thoroughly ventilate area before lighting stove. Failure to ventilate area can result in an explosion that can cause fire, burns, severe injury, or death.

### 3. TURN STOVE ON

#### USING PIEZO PUSH START:

1. Confirm Piezo Electrode (H) is working: Push Piezo Starter Button (G) several times and look for an electrical arc between Piezo Electrode and Burner Head Diffuser Plate (C). If an electrical arc is not present, or the piezo is arcing to a surface other than Burner Head Diffuser Plate, use a match to light the stove (see instructions below); and when possible, reach out to MSR's Warranty Repairs Team to troubleshoot issue. 2. Open Flame Adjuster (E) counterclockwise (about 1½ turns) to begin releasing fuel. 3. Push Piezo Starter Button (G) to light stove; this may take several presses of the button.
4. Once ignited, turn Flame Adjuster (E) to desired flame setting. Proper flame shall appear blue. If the fuel/air mixture does not ignite within 5 seconds, close the Flame Adjuster, wait 15 seconds, and repeat the sub-steps above.

#### USING A MATCH:

1. Hold a lit match over the edge of the Burner Head (C). DO NOT attempt to light stove through Mixer Tube (D). 2. Open Flame Adjuster (E) counterclockwise (about 1½ turns) to release and ignite fuel. 3. Turn Flame Adjuster (E) to desired flame setting. Proper flame shall appear blue. If the fuel/air mixture does not ignite within 5 seconds, close the Flame Adjuster, wait 15 seconds, and repeat the sub-steps above.

**DANGER** Never place your head or body above the stove while 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.

### 4. USE STOVE TO COOK

#### USING SYSTEM POT:

1. Remove Base Cup (Q) from System Pot (L); failure to remove cup before use will result in the cup melting and likely fusing to the pot. 2. Unfold Handles (M) into their open position. 3. Add food or liquid to System Pot (L); never exceed MAX FILL line inside Pot. If designed, secure Pot Lid (P) to System Pot. 4. Place System Pot (L) onto stove by aligning it with Pot Support Ring and Pot Centering Tabs (B); verify that System Pot is centered and flush with Support Ring. 5. Turn Flame Adjuster (E) to adjust heat input.

#### USING COOKWARE OTHER THAN SYSTEM POT:

1. Add food or liquid to the cookware. Cookware must not exceed 8 in/20.3 cm diameter, 5 in/12.7 cm height, and 8 lb/3.6 kg weight. Never exceed MAX FILL line (typically marked inside cookware). 2. Place cookware onto stove; center the cookware over the deployed Pot Support Legs. 3. Turn Flame Adjuster (E) to adjust heat input.

#### WHAT TO DO IF COOKWARE BOILS OVER AND EXTINGUISHES FLAME:

This is a common event for all open-flame stoves, typically cookware is overfilled and allowed to boil over causing the flame to be extinguished. Do not panic; follow the instructions below: 1. Do not attempt to re-ignite stove if burner head is blocked by liquid or food particles; this could cause the fuel/air mixture to ignite within mixer tube, causing a dangerous incident. 2. Turn Flame Adjuster (E) clockwise until full stop. 3. Remove cookware and let stove cool for at least 5 minutes. 4. Invert stove to ensure that liquid is no longer blocking the burner head. Brush away any food particles. 5. Follow steps in Section 3 (above) to turn stove on.

**DANGER** Never move a burning or hot stove. Always extinguish the stove and allow to cool for at least 5 minutes before moving. Moving a burning or hot stove can cause fire, burns, severe injury or death. Never use cookware with a diameter greater than 8 inches (20.3 centimeters). Never place and operate two or more stoves together. Never operate stove with empty or dry cookware. Never use a reflector or diffuser. Use of the stove system 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 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.

Do not use heat exchanger cookware (cookware with fins or corrugated metal attached to the base of the cookware) with this stove; the Switch System Stove is specifically designed to operate in conjunction with the Switch System Pot and Centering Tabs. Using this stove with cookware that has heat exchanging features may result in carbon monoxide poisoning or even death.

Do not use the System Pot on other stoves; it is specifically designed to operate in conjunction with the Switch Stove. Use of this pot with other stoves may result in carbon monoxide poisoning or even death.

### 5. TURN OFF, USE POT TO EAT/DRINK

1. When done cooking, turn Flame Adjuster (E) clockwise until full stop.
2. After extinguishing flame, lift cookware from stove; wait until pot and its contents have cooled to a comfortable temperature before eating or drinking.

**DANGER** Tipping over an ignited stove can cause flames, which may result in fire, burns, severe injury or death; always extinguish the stove before lifting the cookware from the stove.

### 6. REMOVE CANISTER & STOW POT SUPPORT LEGS

1. After flame is extinguished, wait at least 5 minutes for stove to cool.
2. Move stove away from any ignition sources and remove Canister Stand (K). Unscrew Fuel Canister (J) while firmly holding Pressure Regulator/Valve Body (I). A small amount of gas may escape when unscrewing stove. 3. Fold Flame Adjuster (E) and rotate Pot Support Legs (A) into their stowed, locked position (if necessary). NOTE: If the canister is completely empty of fuel, follow proper disposal requirements in your local area.

**DANGER** Always disconnect stove from fuel canister before storing. Failure to disconnect stove from canister before storing may cause 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 in temperatures exceeding 120 °F (49 °C) can result in the canister exploding and causing fire, burns, severe injury or death.

### 7. PACK UP SYSTEM

1. Place PackTowl (R) in bottom of System Pot (L); place stove on PackTowl.
2. Place Canister Stand (K) between legs of Pot Support Ring (B). 3. If using a 4 oz. (110 g) Fuel Canister, nest canister atop stove and Canister Stand (K).
4. Secure Pot Lid (P) to System Pot. 5. Slide Base Cup (Q) onto bottom of pot. NOTE: Ensure stove assembly and PackTowl are dry before long-term storage. Corrosion can occur when stored wet.

### 8. CLEANING & MAINTENANCE

1. To remove Cork Cozy & Clean System Pot: With Pot Handles (M) open, gently unhook Cozy Retention Straps (O) from the Cozy Retention Hooks, then remove Cork Cozy (N) from System Pot (L). Do not bend Cozy. 2. Clean System Pot with mild soap and water. 3. Once System Pot is dry, reattach Cork Cozy: loop cozy around pot and secure by gently hooking Cozy Retention Straps back onto the Retention Hooks.

Stove service must only be done by an individual authorized by Cascade Designs, Inc. If you have any questions about these instructions, your stove, replacement parts, or repairs, please contact Cascade Designs.

Limited Warranty details at [msrgear.com/warranty](http://msrgear.com/warranty)



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