

To not use stove or pump it parts are missing or broken, or with replacement parts not specific to your stove model.

stove in any manner not consistent with these instructions voids warranty and can result in an unsafe situation where

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

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Do not attempt to 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.

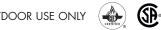
This stove is designed for the outside (i.e., not within enclosed spaces of any kind; e.g., tents) boiling of water or cooking of food only-never use it for any other purpose. Use of stove within any enclosed space, or for a purpose other than boiling water or cooking food can cause fire, burns, severe injury

not modify stove. Disassembly or modification of stove in any manner not consistent with these instructions voids warranty and can result in an unsafe

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 situ-

Tipping of stove can result in an unsafe situation where fire, burns or 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 will be at user's own risk and discretion.



ART# 33-302 A | EN

For product service and information contact Cascade Designs, Inc. Phone: 800.531.9531 or 206.505.9500



FOR OUTDOOR USE ONLY		\$
	CERTIFIED	

4000 First Avenue South, Seattle, WA 98134 U.S.A. www.msrgear.com

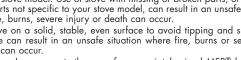
Do not disassemble stove beyond what is described in these instructions. Do

or death

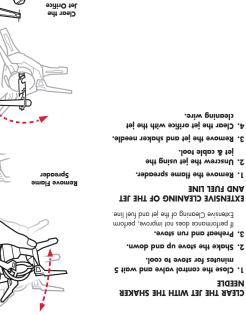
situation where fire, burns, severe injury or death can occur.

ation where fire, burns, severe injury or death can occur.

Always use stove on a solid, stable, even surface to avoid tipping and spills.



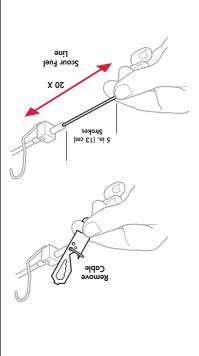
## deposits in the Jet can be cleared with the Shaker Needle. Major deposits may require Deposits in the let and Fuel Line reduce fuel flow and impair stove performance. Minor



9vot2 Shake the maintenance annually, or every time you perform the  $\mathsf{Pump}$  Maintenance. more extensive cleaning of the Jet and Fuel Line. At a minimum, perform the following

.6 Abrough 6. It stove performance is still impaired, 7. Reassemple stove. is complete 🔶 Sately dispose tuel when flushing 🁌 Close Coutrol Valve and remove Fuel ignition sources. 👎 МУКИІИС: Кеєр амау Ігош (Jet uninstalled.) iuio au abbiobilaie coulaiuei. 4 spoonfuls of fuel through Fuel Line Fully open Control Valve to flush Pressurize Fuel Bottle with 15 strokes. .evooi and secure Catch Arm on Fuel Pump alftoð Pinsert Fuel Line into Pump and Fuel 🕨 kewone Caple .enil leut dzult, d 5-inch strokes, 20 times. Move cable in and out, using Fully reinsert cable into tuel line. 👆 Mibe caple cleau (WD-40°, pump cup oil, etc.) caples cau be loosened with a common Remove cable from fuel line. Stubborn 5. Scour fuel line.

Open Windscreen Slightly



## **3TOVE MAINTENANCE**

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let & cable tool.

AND FUEL LINE

ALEDLE

## TROUBLESHOOTING

Problem:						
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				
Problem:						
Poor Performance	Cause:	Solution:				
Erratic Yellow Flames	Improper Preheating	Repeat Preheating Stove				
Pump Not Pressurizing Fuel Bottle	Damaged Pump Cup	Replace Pump Cup				
Plunger Hard to Pump	Dry Pump Cup	Lubricate Pump Cup				
Diminished Flames	Low Fuel Bottle Pressure	Pump the Plunger				
Slow Boil Times	Clogged Jet or Fuel Line	Clear Jet and Clean Fuel Line				

## FUEL INFORMATION

Diminished Flames at Altitude

The XGK<sup>™</sup> EX stove burns a variety of fuels by using two different Jets 1. The GK Jet is used for white gas, kerosene, unleaded auto gas, and aviation gas

Insufficient Airflow

This Jet is preinstalled in your stove

2. The X Jet is for jet fuel, and diesel. This Jet is included in the parts kit with your stove

Use MSR<sup>®</sup> SuperFuel<sup>™</sup> white gas for optimal performance. It is the highest-quality fuel available for your stove. Fuels other than MSR SuperFuel white gas lead to rapid stove clogging, requiring more frequent Jet and Fuel Line cleanings. The fuels chart below is a guide to help you find white gas when traveling internationally. Do not use leaded fuels

### For more information on international fuel names go to www.MSRGEAR.com

U.S.A./UK/ Canada	Germany/ Switzerland	Japan	France	Holland	Spain
White gas/ Naphtha	Kocherbenzin/ Reinbenzin	White gas	Pétrole à brûler/ Essence C	Wasbenzine	Bencina blanca
Kerosene	Petroleum Kerosin	Toh-yu	Pétrole	Petroleum Lampolie	Parafina
Jnleaded auto gas	Autobenzin	Gasoline	Essence sans plomb	Benzine	Gasolina sin plomo
Diesel	Diesel	Diesel	Diesel	Diesel	Diesel



A 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 away from other heat sources. Never use cookware or an Outback Oven<sup>™</sup> with a diameter larger than 10 inches (25 centimeters). Oversized cookware can overheat the fuel bottle. If you expose the fuel bottle 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 m) away from the stove and cooking area, and supervise them at all times.

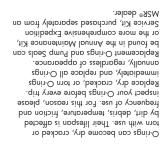
READ, UNDERSTAND, AND FOLLOW ALL instructions and warnings in this manual before using this stove. Failure to follow warnings and instructions can result in death, serious burns or other injury, and property damage

# XGK<sup>™</sup> EX



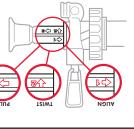
# INSTRUCTION MANUAL

## PUMP MAINTENANCE

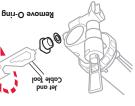


### FUEL TUBE O-RING

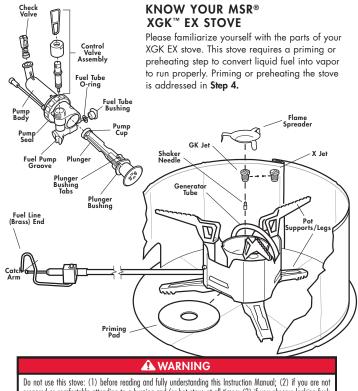
- Align, twist, and pull. J. Remove plunger.
- and O-ring. 2. Remove the fuel tube bushing
- ot a satety pin. Remove the O-ring with the end of the fuel line
- 3. Inspect O-ring.
- If needed, a spare fuel tube O-ring is provided. 4. Replace O-ring.
- mineral-based oil. Ase a glob of bump cup oil or any 5. Lubricate Pump Cup.
- 6. Insert Plunger.
- γοles in pump body. hiw I worrA pinavia Arrow I with
- pump body until it snaps in place. Push in pinger/bushing into the







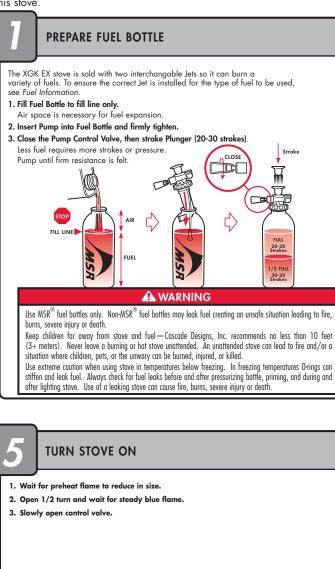




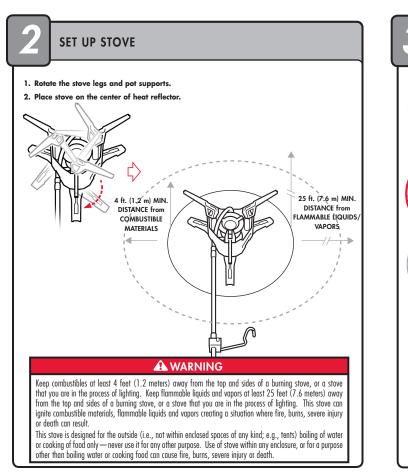
prepared or comfortable attending to a burning and/or hot stove at all times; (3) if you observe leaking fuel; or (4) if you observe any condition with the stove system or in the surrounding environment that would make operation of an open flamed device dangerous. Failure to follow these directions can cause an unsafe situation leading to fire, burns, severe injury or death.

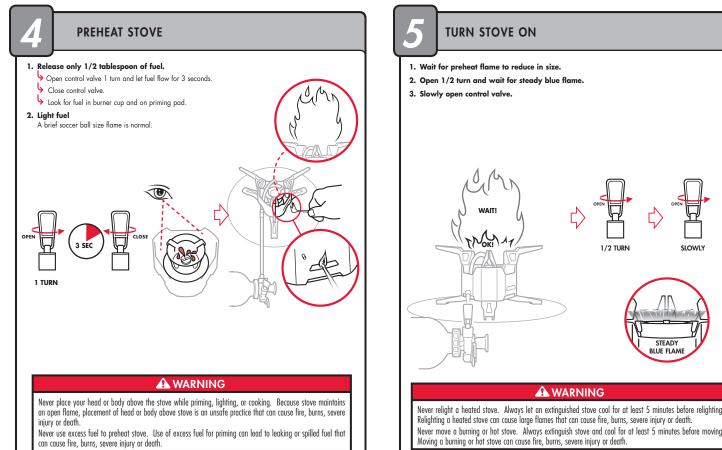
## XGK<sup>™</sup> EX STOVE OPERATING INSTRUCTIONS

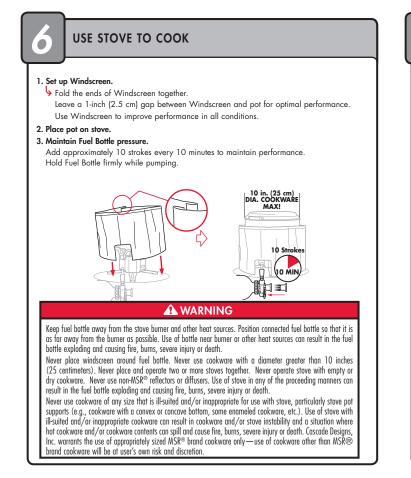
To avoid being killed or seriously injured, READ, UNDERSTAND, AND FOLLOW ALL instructions and warnings in this manual before using this stove



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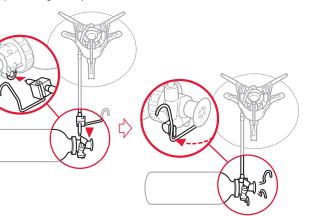








- 1. Insert the fuel line into pump. With fuel bottle on its side, control valve points up 2. Secure the catch arm on fuel pump groove.
- Keep fuel line straight for safety.



### **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 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 the fuel, pump, or fuel bottle when stove 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 value 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.

## TURN STOVE OFF

### 1. Close Pump Control Valve on Fuel Bottle.

- Residual fuel will continue to burn with a small flame for several minutes.
- 2. Close Flame Adjuster Valve on stove.
- 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 the Fuel Bottle upright, away from your face and any sources of heat or ignition. Slowly unscrew Pump to depressurize Fuel Bottle.
- 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.



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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 fue bottle and accessing bottle contents. Exposure to bottle contents topically and/or by ingestion 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.