to exchange jets, see "cleaning me jet and riane Aupsier valve Assembly.						
Do not use leader more frequent Jet	d fuels. Fuels other th and Fuel Line cleanir	an MSR SuperFue ngs. Also, the use	nance. It is the highest el white gas lead to re e of Unleaded Auto G aveling internationally	apid stove cloggin Gas may shorten sto	ng and réquire	
Visit www.msrgeo	ar.com for more infor	mation on interna	ational fuel names an	d safe stove transp	portation.	
USA/UK/ Canada	Germany/ Switzerland	Japan	France	Netherlands	Spain	
White Gas, Naphtha	Kocherbenzin, Reinbenzin	White Gas	Pétrole à brûler, Essence C	Wasbenzine	Bencina blanca	
Unleaded Auto Gas	Autobenzin	Gasoline	Essence sans plomb	Benzine	Gasolina sin plomo	
				Detectory		

Parafina

Diesel

Cause	Solution
Damaged or missing Pump Seal	Replace Pump Seal
Damaged or missing Fuel Tube O-ring	Replace Fuel Tube O-ring
Damaged or missing Control Valve O-ring	Replace Control Valve O-ring
Obstructed Check Valve	Clean Check Valve Cavity
Cause	Solution
Loose or poorly seated Pump	Tighten or rescrew Pump on Fuel Bottle
Damaged Pump Cup	Replace Pump Cup
Dry Pump Cup	Lubricate Pump Cup
Improper preheating	Repeat Step 4
Low Fuel Bottle pressure	Pump the Plunger
Clogged Jet or Fuel Line	Clear Jet and clean Fuel Line
Insufficient airflow	Open Windscreen slightly
	Damaged or missing Pump Seal Damaged or missing Fuel Tube Oring Damaged or missing Control Valve Oring Obstructed Check Valve Cause Loose or poorly seated Pump Damaged Pump Cup Dry Pump Cup Improper preheating Low Fuel Bottle pressure Clogged Jet or Fuel Line

	strokes.
	51-01 drive Bottle With 10-15
	auq Enel Bottle.
	dmu9 of store to Pump
	.911.Flush the Fuel Line.
	Assembly and tighten securely.
	10.Reinsert Flame Adjuster Valve
	strate to remove loosened deposits.
	Tap Flame Adjuster Tube on a hard
	(approximately 20 turns)
	and rotate clockwise with pressure
Cleaning Tool	🚽 Insert tool into Flame Adjuster Tube
Kotate	DragonFly Cleaning Tool.
	8. Put Flame Adjuster Handle onto

TROUBLESHOOTING

FUEL INFORMATION

Petroleum

Diese

Kerosene

Diese

The DragonFly® stove burns a variety of fuels by using two interchangeable Jets

To exchange Jets, see "Cleaning the Jet and Flame Adjuster Valve Assembly.

1. The DG Jet is used for White Gas and Unleaded Auto Gas. This Jet is preinstalled in your stove.

Toh-yu

Diese

Kérosène

Diese

Diese

2. The DK Jet is for Kerosene, Diesel, and Jet Fuel. This Jet is included in the parts kit with your stove.

Problem

Safety Pin. I. Remove old Fuel Line Filter with REPLACING THE FUEL LINE FILTER

- a pard surface. 2. Place new white Fuel Line Filter on
- end of Fuel Line until filter is Center end of Fuel Line over tilter.
- ompletely inside.



Adjuster Valve Assembly steps.

12.Reassemble stove.

is complete.

.enil leuf

21LOKG2

epeat Cleaning the Jet and Flame

t stove pertormance is still impaired

≽ Safely dispose fuel when flushing

Pump Control Valve and remove

Close Flame Adjuster Valve and

> Close and reopen Flame Adjuster

into an appropriate container. (Jet uninstalled.)

Fully open Pump Control Valve

💎

and Flame Adjuster Valve to flush

Valve to repeat flushing.

ignition sources.

tuN qot2 Clean grooved end of Flame Adjuster with thumbnail or Jet Cleaning Wire. Orifice ≽ Kemove Flame Adjuster Valve Assembly Clear Jet completely. A Unscrew Flame Adjuster Valve 6. Loosen Stop Nut with Jet and Cable Tool 5. Open Flame Adjuster Valve 2 turns. 4. Clear Jet with Jet Cleaning Wire. the Jet Needle in new Jet and reassemble stove NOLE: To exchange Jets, place Shaker 3. Remove Shaker Needle. Use DragonFly Cleaning Tool with Jet and Cable Tool for added leverage. 2. Unscrew Jet with Jet and Cable Tool. Kemove Flame Spreader. FLAME ADJUSTER VALVE ASSEMBLY CLEANING THE JET AND perform Cleaning the Jet and Flame Adjuster Valve Assembly steps. It bertormance does not improve 3. Preheat and run stove. Shaker Needle inside Jet should 2. Shake stove up and down. 5 minutes for stove to cool. 1. Close Pump Control Valve and wait CLEARING THE JET WITH THE SHAKER NEEDLE annually, or every time you perform the Pump Maintenance. extensive cleaning of the let and Fuel Line. At a minimum, perform the following maintenance gebosits in the let can be cleared with the Shaker Meedle. Major deposits may require more Deposits in the let and Fuel Line reduce fuel flow and impair stove performance. Minor

STOVE MAINTENANCE

CARBON MONOXIDE HAZARD

This stove produces carbon monoxide, which has no odor. Using enclosed space such as a camper, tent, car, or home.

FOR YOUR SAFETY

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

W ALL instructions and warnings in this manual ow warnings and instructions can result in death serious burns or other injury, and property damage.

1Ò gemove Check 3. Reinsert Check Valve Assembly. Wipe any debris from Check Valve and Pump Cavity. Turn Check Valve Assembly to remove CLEANING THE CHECK VALVE qawageq. hispect bump Seal and replace if REPLACING PUMP SEAL bnub zeal wove/keblace Kemove O-ring(s) with Safety Pin. .fto tuN qot2 əbil2 🔶 O-BING bObbE1 trom stem Kemove Fump Control Valve Handle 4. Inspect O-ring(s) and replace if dama O-BING AVIAE Unscrew Stop Nut completely and remove Control Valve Assembly. Unscrew Pump Control Valve 6 turns 1. Unscrew Stop Nut 2 turns. TUVI GOTO AND POPPET O-RING REPLACING CONTROL VALVE O-RING

of stove with missing or broken parts, or with replacement parts not specific to your stove model, can result in an unsafe o not use stove or pump it parts are missing or broken, or with replacement parts not specific to your stove model. U

ir pump 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 stove

MARNING

ituation where tire, burns, severe injury or death can occur.

ite, burns, severe injury or death can occur.

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[™] 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



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it in an enclosed space can kill you. Never use this stove in an



Retain these instructions for future reference

DRAGONFLY®



INSTRUCTION MANUAL

PUMP MAINTENANCE

from an MSR® dealer. Expedition Service Kit, purchased separately Waintenance Kit, or the more comprehensive Pump Seals can be found in the Annual of appearance. Replacement O-rings and replace all O-rings annually, regardless cracked, or torn O-rings immediately, and O-rings before every trip. Replace dry, debris, temperature, friction and frequency of use. For this reason, please inspect your with use. Their lifespan is affected by dirt, O-tings can become dry, cracked or torn

REPLACING FUEL TUBE O-RING

- J. Remove Plunger.
- Remove the O-ring with the end of the with Jet and Cable Tool. 2. Remove Fuel Tube Bushing and O-ring . 🕨 Align, twist, and pull.
- 3. Inspect O-ring and replace if damaged Fuel Line or Safety Pin.
- 4. Lubricate Pump Cup. O-ring is provided. It needed, a spare green Fuel Tube
- Use a drop of Pump Cup Oil or any mineral-based oil.
- Hold thumb and forefinger firmly 5. Insert Plunger.
- Align Plunger Bushing Tabs with holes in Pump Body. around Arrow 1.
- Lump Body until it snaps in place Push Plunger/Bushing into the







nsert Plunger

KNOW YOUR MSR® DRAGONFLY® STOVE

Check Valve



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 fire, burns, severe injury or death.



DRAGONFLY® 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.



 Wait for preheat flame to reduce in size (approximately 2 minutes). If flame goes out, wait 5 minutes for stove to cool before relighting.
Open Flame Adjuster Valve 1/2 turn and wait for steady blue flame.

Slowly open Flame Adjuster Valve to increase fuel and heat.



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. 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.



beine exploring that closing the, ours, severe highly to deam. Never use cookware of any size that is ill-suited and/or inappropriate for use with stove, particularly 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 isk and discretion.



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.



WARNING

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 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.