



## MOUNTAIN SERIES 2 BURNER STOVE CARE, USE AND SAFETY INSTRUCTIONS



Portable Type Gas  
2 Burner Stove

Conforms to ANSI STD Z21.72b-2002

Certified to CSA STD 11.2b-2002



- **To consumer: Keep this manual for future reference. This instruction manual contains important information necessary for the proper assembly and safe use of this product.**

**Read and follow all warnings and instructions before assembling and using the appliance.**

**Follow all warnings and instructions when using the appliance.**

**DO NOT DISCARD THIS INSTRUCTION MANUAL.**

For outdoor use only.

Model #: MS2



PO Box 4057 • Logan, UT 84323  
1.800.650.2433 or 1.435.752.3922



## FOR YOUR SAFETY

If you smell gas:

1. Do not attempt to light the appliance.
2. Extinguish any open flame.
3. Disconnect from fuel supply.

## FOR YOUR SAFETY

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

## CARBON MONOXIDE HAZARD

This appliance can produce carbon monoxide which has no odor.

Using it in an enclosed space can kill you.

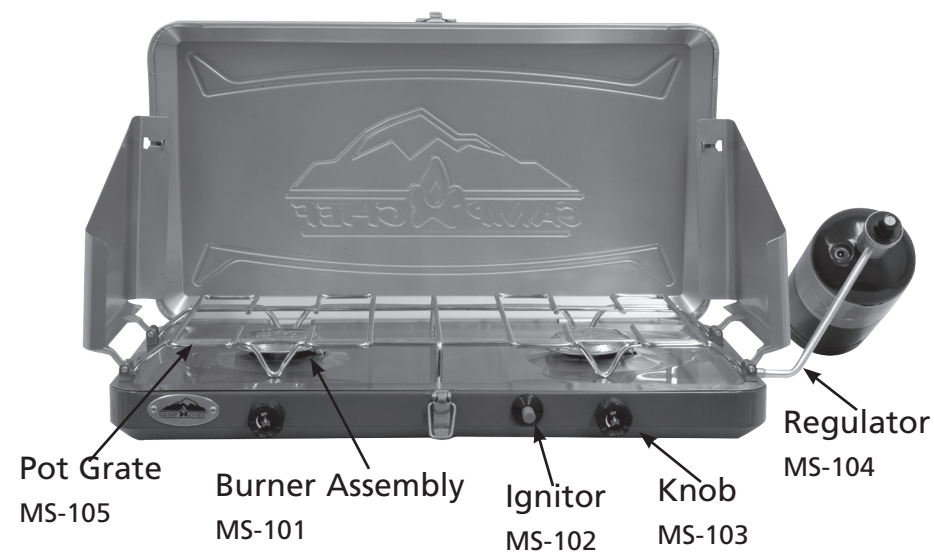
Never use this appliance in an enclosed space such as a camper, tent, car or home.



# DANGER



## PARTS LIST





1. DO NOT leave this appliance unattended while in use. The user must remain in the immediate area of the product and have a clear view of the product at all times during operation.
2. Keep children and pets away from burner at all times.
3. The use of alcohol, prescription or non-prescription drugs may impair your ability to properly assemble or safely operate this appliance.
4. For OUTDOOR use only. Do NOT use in a building, garage or any other enclosed area. Do NOT use in or on recreational vehicles or boats. NEVER use this appliance as a heater.
5. Do not operate appliance under ANY overhead construction. Keep a minimum clearance of 1 foot (0.3 m) from the sides, front and back of appliance to ANY construction. Keep the area clear of all combustible material and flammable liquids, including wood, dry plants and grass, brush, paper, and canvas. Never use this appliance within 25 ft. (7.5 m) of any flammable liquid.
6. Use ONLY on a level, stable surface.
7. DO NOT place an empty cooking vessel on burner while in operation. Use caution when placing anything in the cooking vessel while burner is in operation.
8. Do NOT move the appliance when in use. Allow unit to cool to 115°F (45°C) before moving or storing.
9. This appliance will be hot during

and after use. Use insulated oven mitts or gloves for protection from hot surfaces or splatter from cooking liquids.

10. In case there is a fire, call the local fire department or dial 911. Stay clear from flames. Do not attempt to extinguish an oil or grease fire with water.
11. Do not obstruct the flow of combustion and ventilation air.

**NOTE:** This appliance is set to use 16.4 oz. disposable propane cylinders. Use only cylinders marked propane. Disposable propane cylinders must be disconnected from the stove when it is in storage.

Refillable Bulk LP-Gas Tanks with a maximum capacity of 20 pounds may also be used with an optional bulk tank adapter hose. (Use Camp Chef Model HRDSP to connect to the bulk tank.) Refillable propane gas cylinders must be turned off at the LP-Gas supply cylinder when the stove is not in use.

The LP-gas cylinder(s) used with this stove must be constructed and marked in accordance with the specifications for LP-gas cylinders of the U.S. Department of Transportation or Transport Canada, CAN/CSA B339.

#### Setup Using Disposable Bottle

1. Make sure burner valves are off.
2. Remove plastic cap from top of propane cylinder. Save cap for use in storing. Screw propane cylinder into regulator. Be careful not to cross thread. Hand Tighten only.
3. Check the connection between the



cylinder and the regulator with soapy water. Bubbles indicate a leak. Check that the connection is not cross-threaded and that it is tight.

Perform another leak check. If there is



Leak Test

still a leak, remove the cylinder and contact the manufacturer for service or repair.

4. The regulator uses a threaded fitting to attach to the stove. It is necessary to hold the stove to make sure the fitting is seated. Align the regulator to the fuel tube on the rear of the stove and push on. Screw on the outer threaded sleeve in a clockwise direction until tight.

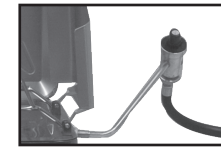


5. Never operate stove with propane cylinder in an inverted position.



#### Setup Using Optional Hose And Refillable Cylinder

1. Make sure burner valves are off.
2. Attach Camp Chef Model HRDSP



hose to regulator & regulator to stove (as shown).

3. Attach hose to cylinder.
4. Open cylinder valve.
5. Perform leak check on hose to regulator, and hose to cylinder

#### LEAK CHECK REGULATOR & HOSE



connections with soapy water. Bubbles indicate a leak. Check that the connection is not cross-threaded and that it is tight. Perform another leak check. If there is still a leak, remove the cylinder and contact the manufacturer for service and repair.

6. Turn off fuel at the cylinder and disconnect both ends of the hose when not in use.

#### Dismantling Hose And Refillable Cylinder

1. Before dismantling high pressure hose, be sure gas pressure in hose is eliminated.
2. Ignite stove and turn off gas valve on cylinder.
3. Allow flame to self-extinguish.
4. When flame is out, close valves on the appliance.
5. Remove hose.

- Use appliance only with LP (propane)





gas and the regulator/valve assembly supplied.

- Appliance is not for use in or on recreational vehicle and/or boats.
- Do not modify this appliance. Modifications will result in a safety hazard. Questions regarding certification in other areas may be addressed to 1-435-752-3922.
- Apartment Dwellers: Check with management to learn the requirements and fire codes for using an LP Gas appliance at an apartment. If allowed, use outside on the ground floor with a 10 foot clearance from walls or rails.
- Before opening LP tank valve, check the coupling nut for tightness. When appliance is not in use, turn off control knob and LP tank valve on supply cylinder.
- Never use LP tank if visibly rusted, damaged, or out of date.
- If you notice grease or other hot material dripping from appliance onto valve, hose or regulator, turn off gas supply at once. Determine the cause, correct, clean and inspect valve, hose and regulator before continuing. Perform a leak test.
- The regulator may make a humming or whistling noise during operation. This will not affect the safety or use of appliance.
- Clean and inspect the hose before each use of the appliance. If there is evidence of abrasion, wear, cuts or leaks, the hose must be replaced prior to the appliance being put into operation. See product tag for hose & regulator information.

- Do not block holes in bottom or sides of appliance.
- Never operate appliance with LP tanks out of correct position specified in Assembly Instructions.

**! WARNING**  
 Combustion by-products produced when using this product contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

- Always close LP tank valve and remove coupling nut before moving LP tank form specified operating position.
- NEVER store a spare LP tank under or near appliance or in enclosed areas. NEVER fill the cylinder beyond 80% full. An overfilled spare LP tank is hazardous due to possible gas released from the safety relief valve. Failure to follow these instructions exactly could cause a fire resulting in death or serious injury.
- If you see, smell, or hear escaping gas, immediately get away from the LP tank/appliance and call your fire department.

Warning: Hose is a trip hazard

- All spare LP tanks must have safety caps installed on the LP tank outlet

**LP Tank Removal, Transport and Storage**

- Turn OFF all control knobs and LP tank valve. Turn coupling nut counterclockwise by hand only – do not use tools to disconnect. Install safety cap onto LP tank valve. A l w a y s use cap and strap supplied with valve. Failure to use safety cap as directed may result in serious personal injury and/or property damage.



- A disconnected LP tank in storage or being transported must have a safety cap installed (as shown). Refillable LP-Gas cylinders must be stored outdoors in a well ventilated space, out of the reach of children, and must not be stored in a building, garage or any other enclosed area. Never leave an LP tank inside a vehicle, which may become overheated by the sun.
- Do not store LP tanks in an area where children play.
- Storage of an appliance indoors is permissible only if the cylinder is disconnected and removed from the appliance.
- When the refillable LP-gas supply cylinder is not disconnected from the stove, the stove and cylinder must be stored outdoors, in a well ventilated space, out of the reach of children, and must not be stored in a building, garage or any other enclosed areas.

**LP Tank**

The LP tank used with your appliance must meet the following requirements:

- Purchase LP tanks only with these required measurements: 12” (30.5cm) (diameter) x 18” (45.7cm) (tall) with 20 lb. (9 kg.) capacity maximum.
- Be constructed and marked in accordance with specifications for LP tank of the U.S. Department of Transportation (DOT) or the National Standard of Canada, CAN/CSA-B339, Cylinders, Spheres and Tubes for the Transportation of Dangerous Goods.
- The refillable propane cylinder used with this appliance must include a collar to protect the cylinder valve.



**LP tank valve must have:**

- Type 1 outlet compatible with regulator or appliance.
- Safety relief valve.
- UL listed Overfill Protection Device (OPD). This OPD safety feature is identified by a unique triangular hand wheel. Use only tanks equipped with this type of valve. LP tank must be arranged for vapor withdrawal.

**LP (Liquefied Petroleum Gas)**

- LP gas is non-toxic, odorless and colorless when produced. For Your Safety, LP gas has been given an odor (similar to rotten cabbage) so that it can be smelled.
- LP gas is highly flammable and may ignite unexpectedly when mixed with air.



## LP Tank Filling

- Use only licensed and experienced dealers.
- LP dealer must purge tanks before filling.
- Dealer should NEVER fill LP tank more than 80% of LP tank volume. Volume of propane in tanks will vary by temperature.
- A frosty regulator indicates gas overfill. Immediately close LP tank valve and call local LP gas dealer for assistance.
- Do not release liquid propane (LP) gas into the atmosphere. This is a hazardous practice.
- To remove gas from LP tank, contact an LP dealer or call a local fire department for assistance. Check the telephone directory under "Gas companies" for nearest certified LP dealers.

## LP Tank Exchange

- Many retailers that sell appliances offer you the option of replacing your empty LP tanks through an exchange service. Use only those reputable exchange companies that inspect, precision fill, test and certify their cylinders. Exchange your tank only for an OPD safety feature-equipped tank as described in the "LP Tank" section of this manual.
- Always keep new and exchanged LP tanks in upright position during use, transit or storage.
- Leak test new and exchanged LP tanks BEFORE connecting to appliance.

## LP Tank Leak Test

For your Safety

- Leak test must be repeated each time LP tank is exchanged or refilled.
- Do not smoke during leak test.

- Do not use an open flame to check for gas leaks.
- Appliance must be leak checked outdoors in well-ventilated area, away from ignition sources such as gas fired or electrical appliances. During leak test, keep appliance away from open flames or sparks.

Use a clean paintbrush and 50/50 soap and water solution. **Use mild soap and water. Do not use household cleaning agents.** Damage to gas train components can result. Brush soapy solution onto all weld seams and entire valve area.



**! WARNING**  
If "growing" bubbles appear, do not use or move the LP tank. Contact an LP gas supplier or your fire department.

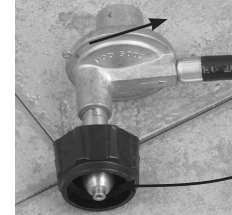
## Connecting Regulator To The LP Tank

Only use the pressure regulator & hose supplied with this appliance. See assembly instructions or appliance name tag for regulator model number.

1. Place LP tank on a secure, level, and stable surface.
2. Turn control knob to the OFF position.
3. Turn LP tank OFF by turning hand wheel clockwise to a full stop.
4. Remove the protective cap from LP tank valve. Always use cap and strap supplied with valve.



Do not use a POL transport plug (plastic part with external threads)! It will defeat the safety feature of the valve.



(B) Nipple has to be centered into the LP tank valve



(C) Hold coupling nut and regulator as shown for proper connection to LP tank valve

5. Hold regulator, insert nipple (B) into LP tank valve. Hand tighten coupling nut, holding regulator in a straight line (C) with LP tank valve so as not to cross thread the connection.
6. Turn the coupling nut clockwise to tighten to a full solid stop. The regulator will seal on the back-check

feature in LP tank valve, resulting in some resistance. An additional one-half to three quarters turn is required to complete connection. Tighten by hand only – do not use tools.

NOTE: If you cannot complete connection, disconnect regulator and repeat steps 5 and 6. **If you are still unable to complete the connection, do not use this regulator!**

- Do not insert any foreign objects into the valve outlet. You may damage the valve and cause a leak. Leaking propane may result in explosion, fire, severe personal injury, or death.
- Never attempt to attach this appliance to the self-contained LP gas system of a camper or trailer or motor home.

## Leak Testing Valves, Hoses and Regulator

1. Turn all control knob(s) to OFF.
2. Be sure regulator is tightly connected to LP tank.
3. Completely open LP tank valve by turning hand wheel counter clockwise. If you hear a rushing sound, turn gas off immediately. There is a major leak at the connection. Correct before proceeding.
4. Brush soapy solution onto indicated connections shown at right.
5. If "growing" bubbles appear, there is a leak. Close LP tank valve immediately and retighten connections. If leaks cannot be stopped, do not try to repair. Call for replacement parts. Order new parts by giving the serial number, model number and name of items



needed to the Service Center at 1-435-752-3922.

### ⚠ WARNING

- Do not use appliance until leak checked.
- If you cannot stop a gas leak, immediately close LP tank valve and call LP gas supplier or your fire department!

6. Always close LP tank valve after performing tank leak test by turning hand wheel clockwise.

### Setup Instructions:

- Place stove on a flat, level, sturdy surface.
- Open the lid and attach the windscreens to the tabs on the inside of the lid. Snap into place as shown.



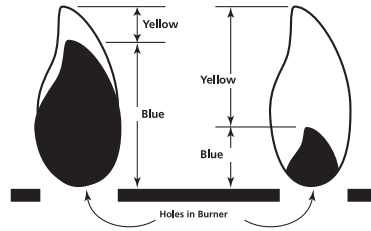
- Make sure the burners are in the off position.
- Push regulator assembly firmly into stove. Tighten nut securely.
- Screw propane cylinder into the regulator.

### ⚠ WARNING

- Do not put hands or any other body parts over the burner during lighting or when in use to prevent burns.

### Lighting Stove Instructions:

1. Turn burner valve on and press the red ignitor button until the burner lights.
2. If ignition does not occur in 5 seconds, turn the burner control(s) off, wait 5 minutes, and repeat lighting procedure. If built-in ignitor will not light follow the preceding steps and hold a lit long igniter or match next to the burner when opening the control valve.
4. Adjust the flame to the desired height. Flame should be compact and blue in color.
4. Avoid getting dirt in the valves, regulator, and burners.



5. To shut burner off, turn the valve to off. (Clockwise)

**If the flame is accidentally extinguished, turn the appliance valves OFF and WAIT 5 minutes before attempting to ignite.**

### Burner Flame Check

- Light burner; rotate knob(s) from HIGH to LOW. You should see a smaller flame in LOW position than seen on HIGH. Always check flame prior to each use. A good flame should be blue with minimal yellow tip. Some yellow tips on flames are acceptable as long as no carbon or soot deposits appear.

### Turning LP Cooker Off

- Turn all knobs to OFF position. Turn

LP tank OFF by turning hand-wheel clockwise to a full stop.

### Hose Check

- Before each use, check to see if hoses are cut or worn. Replace damaged hose assembly before using appliance. Use only valve/ hose / regulator specified by manufacturer. See product sheet for hose & regulator information.

### ⚠ CAUTION

All cleaning and maintenance should only be done when the appliance is cool and with the fuel supply turned off at the LP cylinder. **DO NOT** clean any part in a self-cleaning oven. The extreme heat will damage the finish.

### Cleaning The Burner

**NOTE:** Spiders and small insects can spin webs and build nests inside the burner. This especially occurs in late summer and fall before frost when spiders are most active. These nests can obstruct gas flow and cause a fire in and around the burner and orifice. Such a fire can cause operator injury and serious damage to the appliance. To help prevent a blockage and ensure full heat output, clean and inspect burner tube often (once or twice a month). **NOTE:** Water or air pressure will not normally clear a spider web.

### Cleaning and Maintenance

Correct care and maintenance will keep your appliance operating smoothly. Clean regularly as determined by the amount of use. **NOTE:** Clean the entire appliance each year and tighten all hardware on a regular basis (1-2

times a year or more depending on usage). Cleaning should be done where detergents won't harm patio, lawn, or the like. Keep appliance area clear and free from combustible materials, gasoline and other flammable vapors and liquids. Keep the ventilation opening(s) of the cylinder enclosure free and clear from debris.

### Suggested Cleaning Materials

- Mild dish washing liquid detergent
- Wire brush
- Nylon cleaning pad
- Hot water
- Paper clip
- Soft brass bristled brush

### Component Cleaning:

- Burner should be wiped clean. Hot soapy water and a soft bristle brush can be used to clean the burner surfaces. Clean clogged gas port holes with an opened paper clip. Replace corroded or damaged burners that would emit excess gas.
- **COOKING SURFACES, POTS AND PANS:** Clean the cooking surface with soapy water and a nylon cleaning pad.
- After appliance has cooled, wipe areas where paint and finish have burned off to minimize rusting.



## LIMITED WARRANTY

To activate warranty, register on-line at: [www.CampChef.com](http://www.CampChef.com)

The manufacturer warrants stove components (except paint and finish) to be free from defect in materials and workmanship for 1 year from the date of purchase. All accessories (included with stove or purchased separately) are warranted from defect in materials and workmanship for 90 days from the original purchasing date. Within these periods, the manufacturer will replace or repair defective parts deemed unusable from its original intent by making available the parts thereof FOB Logan, UT 84321

Product paint and finish is not warranted. The exterior finish of the product will wear down over time.

Clean the unit after each use to maintain the finish and prolong the life of your product. Wipe away all grease and ashes. Keep metal products free of moisture, salts, acids and harsh fluctuations in temperatures.

Warranty does not cover normal wear of parts or damage caused by misuse, abuse, overheating and alteration. Repairs or alterations made by anyone other than Camp Chef are not covered in this Warranty. Manufacturer will not be held liable for any losses due to neglectful operation. Furthermore, this Warranty does not cover damaged caused by natural disasters such as earthquakes, hurricanes, tornadoes, floods, lightning, fires, etc.

Upon the expiration of this warranty all such liability will terminate. No other warranties are expressed or implied.

Keep all original sales receipts. Proof of purchase is required to obtain Warranty services. Prior written approval and a Return Authorization Number must be obtained and accepted for repair or replacement only. Returns must be shipped prepaid. Collect shipment or shipments without a Return Authorization Number will not be accepted.

To obtain Warranty services call 1.800.650.2433.  
\*Warranty applies to the contiguous US states only.

0809-MS-Instructions



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Teton 2 Burner Stove  
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Rainier 2 Burner Grill/Stove Combo  
Model: MS2G

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Denali 3 Burner Grill/Stove Combo  
Model: MS3G



2 Mantle Lantern  
Model: MSL2



Deluxe 2 Mantle Lantern  
Model: MSL2D



Deluxe 3 Mantle Lantern  
Model: MSL3D



Mountain Series Carry Bags  
Model: CBMS/CBMSL

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Smokers



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