

Volcano Collapsible Stove 20-200, 20-300 Grills

INSTRUCTIONS FOR USE

U.S. and other Patents Pending
Volcano II Corporation
www.volcanogrills.com



For Outdoor Use Only

IMPORTANT

Read this manual carefully before assembling, using or servicing this stove. Keep this manual for future reference. If you have questions about assembly, operation, servicing or repair of this stove, please call Volcano at 888-320-2005.

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FOR YOUR SAFETY

If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. Open lid.
4. If odor continues, immediately call your gas supplier or your fire department.

FOR YOUR SAFETY

1. Do not store or use gasoline or other flammable vapors in the vicinity of this or any other appliance.
2. When cooking with oil/grease, do not allow the oil/grease to exceed 350°F (176.5°C). Do not store or use any extra cooking oil in the vicinity of this or any other appliance.
3. An LP cylinder not connected for use shall not be stored in the vicinity of this or any other appliance.

DANGER






• 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.

WARNING

1. Do not store spare LP cylinder within 10 feet (3m) of this appliance.
2. Do not store or use gasoline or other flammable liquids or vapors within 25 feet (8m) of this appliance.
3. When cooking with oil/grease, do not allow oil/grease to get hotter than 350°F (176.5°C).
4. Do not leave oil/grease unattended.

General Safety Information

This manual contains important information about the assembly, operation and maintenance of this outdoor stove. General safety information is presented in these first few pages and is also located throughout the manual. Particular attention should be paid to information accompanied by the safety alert symbols: “ DANGER”, “ WARNING”, “ CAUTION”.

Keep this manual for future reference and to educate new users about this product. This manual should be read in conjunction with the labeling on the product.

Safety precautions are essential when any mechanical or propane-fueled equipment is involved. These precautions are necessary when using, storing, and servicing. Using this equipment with the respect and caution demanded will reduce the possibilities of personal injury or property damage.

The symbols shown below and on page 3 are used extensively throughout this manual. Always heed these precautions, as they are essential when using any mechanical or fueled equipment.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate personal injury, or property damage.

WARNING: For Outdoor Use Only

WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the Installation, Operation, & Maintenance Instructions thoroughly before installing or servicing this equipment.

DANGER

Failure to comply with the precautions and instructions provided with this outdoor stove can result in death, serious bodily injury and property loss or damage from hazards of fire, explosion, burn, asphyxiation, and/or carbon monoxide poisoning.

Only persons who can understand and follow the instructions should use or service this outdoor stove. If you need assistance or outdoor stove information such as an instruction manual or labels, contact Volcano II Corp.

DANGER



• EXPLOSION - FIRE HAZARD

- Never store propane near high heat, open flames, pilot lights, direct sunlight, other ignition sources or where temperatures exceed 120 degrees F (49°C).
- Propane is heavier than air and can accumulate in low places. If you smell gas, leave the area immediately.
- Never install or remove propane tank while outdoor stove is lighted, near flame, pilot lights, other ignition sources or while outdoor stove is hot to touch.
- During operation, this product can be a source of ignition. Never use the stove in spaces that contain or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals. Minimum clearances from combustible materials: 12" from the sides & 48" from the top.
- Provide adequate clearances around air openings into the combustion chamber.
- DO NOT use gas stove indoors or store any propane cylinder(s) indoors, including in the garage, breezeways, sheds or enclosed areas.
- Never locate stove under an unprotected combustible material or overhang which is connected to a building.
- Do not obstruct the flow of combustion and ventilation air.
- Keep the ventilation opening(s) of the cylinder enclosure free and clear from debris.
- Stove must be on a level, stable surface in an area clear of combustible material. An asphalt surface (blacktop) may not be acceptable for this purpose.

WARNING

We cannot foresee every use which may be made of this cooking stove. **Check with your local fire safety authority if you have questions about use.** Other standards govern the use of fuel gases and heat producing products for specific uses. Your local authorities can advise you about these.

- Never refill disposable cylinders.
- Use the preset regulator that came with the stove. Do not attempt to adjust.
- The installation must conform with local codes or, in absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, Storage and Handling of Liquefied Petroleum Gases, ANSI/NFPA 58 or CSA B149.1, Natural Gas and Propane Installation Code.
- This appliance is not intended to be installed in or on recreational vehicles and/or boats.
- This appliance is not intended for commercial use.

DANGER



• CARBON MONOXIDE HAZARD

- This stove is a combustion appliance. All combustion appliances produce carbon monoxide (CO) during the combustion process. This product is designed to produce extremely minute, nonhazardous amounts of CO if used and maintained in accordance with all warnings and instructions. Do not block air flow into or out of the cookstove.
- Carbon Monoxide (CO) poisoning produces flu-like symptoms, watery eyes, headaches, dizziness, fatigue and possibly death. You can't see it and you can't smell it. It's an invisible killer. If these symptoms are present during operation of this product **get fresh air immediately!**
- **For outdoor use only.**
- **Never use inside house, or other unventilated or enclosed areas. This cook stove consumes air (oxygen). Do not use in unventilated or enclosed areas to avoid endangering your life.**

WARNING

- This product is fueled by propane gas. Propane gas is invisible, odorless, and flammable. An odorant is normally added to help detect leaks and can be described as a "rotten egg" smell. The odorant can fade over time so leaking gas is not always detectable by smell alone.
- Propane gas is heavier than air and leaking propane will sink to the lowest level possible. It can ignite by ignition sources including matches, lighters, sparks or open flames of any kind many feet away from the original leak. Use only propane gas set up for vapor withdraw.
- Propane gas should be stored and used in compliance with local ordinances and codes or with ANSI/NFPA 58. Turn off propane when not in use.

CALIFORNIA PROPOSITION 65:

WARNING: Propane and byproducts of combustion of propane contain chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

WARNING



• BURN HAZARD

- Never leave the outdoor stove unattended when hot or in use.
- Keep out of reach of children.

CAUTION

• SERVICE SAFETY

- Keep all connections and fittings clean. Inspect propane cylinder and stove propane connections for damage before attaching.
- During set up, check all connections and fittings for leaks using soapy water. Never use a flame. 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 Volcano for service or repairs.
- Use as a cooking appliance only. Never alter in any way or use with any device or part not expressly approved by Volcano.
- Clean stove frequently to avoid grease accumulation and possible grease fires.

WARNING

- Keep children and pets away from appliance at all times.
- NEVER leave the stove unattended while it is in use.
- The use of alcohol, prescription or non-prescription drugs may impair the consumer's ability to properly assemble or safely operate the appliance.
- Do not place empty cooking vessel on the appliance while in operation. Use caution when placing anything in cooking vessel while the appliance is in operation.
- DO NOT move the appliance when in use. Allow the cooking vessel to cool before moving or storing.
- This appliance is not intended for and should never be used as a heater.
- Cylinders must be stored outdoors out of reach of children.

To Set Up

CONSUMER NOTICE: These assembly instructions are designed for stove models 20-200 and 20-300. Features shown **MAY NOT** be in more than one stove and will not be provided by this company or at the place you purchased your stove.

Step 1 # 20-300 Grill

- Remove stove and regulator from packaging.
- Inspect all packing and remove all parts.
- See box for parts included with your unit.

- (1) Volcano Stove
- (1) Propane Burner
- (1) User Manual
- (1) Bottom Grill
- (1) Top Grill
- (1) Heat Deflector Plate
- (2) Wrenches
- (1) Orifice Tube
- (1) Regulator Hose
- (1) Storage Bag

- See replacement parts list for identification.



Set Up

Step 1

- Remove from box.
- Place on level surface.
- Lift handle to expand stove until each of the 3 legs are extended and locked.



NOTE: Do not try to force the legs to extend. Gently shake the unit until it opens. Prying on any of the legs may damage the internal mechanism and could permanently damage the stove.

To Set Up cont.

For Charcoal/Wood

Step 1 # 20-200, # 20-300 Grills

- Stand stove upright.



Step 2

- Insert the smaller bottom grill into the cooking chamber of the stove. (the grill should sit approx. 1" above the bottom)
- Place charcoal briquettes or wood on bottom grate. Never place fuel source on the bottom of the cooking chamber.



Step 3

- Place the larger, top grill onto the cooking chamber.

NOTE: Refer to the "To light" section on pages 6-7 for instructions on how to ignite fuel source.



Installing Propane Attachment

Step 1 # 20-300 Grill

- Stand stove upright.
- Remove all grills and grates from the stove.



Installing Propane Attachment *cont.*

Step 2 _____ # 20-300 Grill

- Turn the propane burner over so the circular air shutter valve is visible.
- Set the air-to-fuel ratio by adjusting the thumb screw attached to the valve.



NOTE: It is recommended that the valve should be opened 1/4 of the way. Adjustments can be made as needed.

- Attach the smaller end of the orifice tube to the side of the propane burner. Use the wrench to tighten the connection.



NOTE: DO NOT cross thread the two pieces.

Step 3 _____

- Place the propane burner in the bottom of the cooking chamber with the orifice tube placed through the pre-drilled hole on the side of the stove.



NOTE: The circular air shutter valve should be facing towards the bottom of the cooking chamber.

- Attach the brass end of the regulator hose to the orifice tube projecting from the lower rostrum of the stove body. Use the wrenches to tighten the connection.



NOTE: DO NOT cross thread the pieces.

Step 4 _____

- Place the heat diffuser plate directly on top of the propane burner cradle.



- Place top grill on the body of the stove.



NOTE: Refer to the "To light" section on pages 6-7 for instructions on how to ignite fuel source.

Leak Check

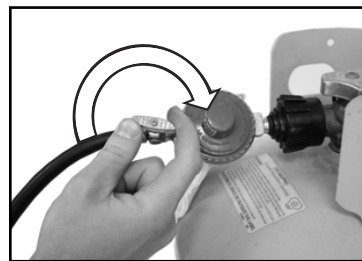
⚠ WARNING

- Perform leak test outdoors.
- Extinguish all open flames.
- NEVER leak test when smoking.
- Do not use the outdoor stove until connection has been leak tested and does not leak.

Leak Check *cont.*

Step 1 _____ # 20-300 Grill

- Make sure propane burner valve is off.



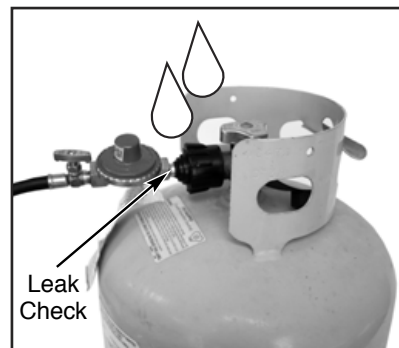
Step 2 _____

- Remove plastic cap from top of propane cylinder. Save cap for use in storing. Screw REGULATOR into propane cylinder. Be careful not to cross-thread. HAND TIGHTEN only.



Step 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 still a leak, remove the cylinder and contact Volcano for service or repairs.



- The regulator uses a threaded fitting to attach to the stove. It is necessary to secure the cradle to make sure the fitting is seated. Screw on the outer threaded sleeve in a clockwise direction until tight.



Step 4 _____

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



Operation

DANGER



• CARBON MONOXIDE HAZARD

- For outdoor use only.
- Never use inside house, or other unventilated or enclosed areas. This outdoor stove consumes air (oxygen). Do not use in unventilated or enclosed areas to avoid endangering your life.

DANGER



• EXPLOSION - FIRE HAZARD

- Never store propane near high heat, open flames, pilot lights, direct sunlight, other ignition sources or where temperatures exceed 120°F (49°C).
- Propane is heavier than air and can accumulate in low places. If you smell gas, leave the area immediately.
- Never install or remove propane tank while outdoor stove is lighted, near flame, pilot lights, other ignition sources or while outdoor stove is hot to touch.
- This stove is red hot during use and can ignite flammables too close to the burner. Keep flammables at least 12" from sides and 48" from top. Keep gasoline and other flammable liquids and vapors well away from outdoor stove.
- Disconnect propane tank from stove if the stove is to be stored indoors.

- Do not attempt to operate until you have read and understood all General Safety Information in this manual and all assembly is complete and leak checks have been performed.

Setup for 1lb. Propane Cylinder Adaptor

Step 1 _____ # 20-300 Grill

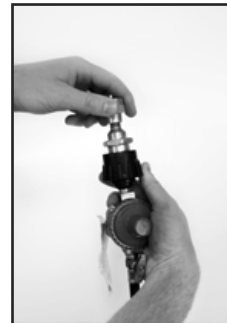
- Make sure Burner Valve is off.



Setup for 1lb. Propane Cylinder Adaptor *cont.*

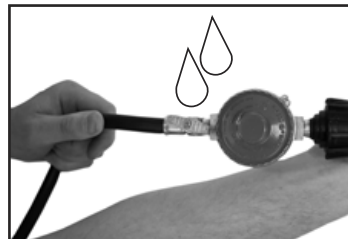
Step 2 _____

- Attach adaptor to regulator hose.
- Attach hose to propane cylinder.



Step 3 _____

- Perform leak check on Hose to Regulator and Hose to Cylinder 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 Volcano for service or repairs.



To Light Propane Fuel Source

Step 1 _____

20-300 Grill

- Place heat diffuser plate on propane burner.
- Open the vents completely.



Step 2 _____

- Place fire source (matches, lighter, striker) at tip of burner
- Slowly turn on gas supply.

NOTE: If stove does not light, turn off gas supply and wait 30 seconds to try again.

NOTE: On first use, smoke may come from the cooking chamber. this is normal and is the result of burning off the coating that protects the stoves during shipment.



To Light Wood/Charcoal Fuel Source

Step 1 _____ # 20-200, # 20-300 Grills

- If changing from propane, remove the top grill, heat deflector plate and propane burner.
- Install the bottom grate.
- Place wood or charcoal on the bottom grate.

NOTE: Do no overfill with wood. Overfilling will void the warranty

- Light wood/charcoal with preferred method.

NOTE: On first use, smoke may come from the cooking chamber. this is normal and is the result of burning off the coating that protects the stoves during shipment.



Before Cooking

- If grilling, clean top grate with mild detergent before first use.



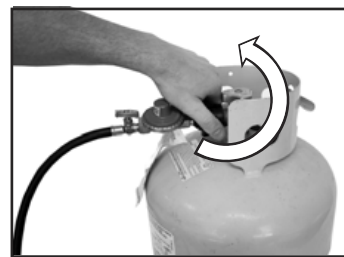
After Cooking

- Turn off gas supply completely
- If using wood or charcoal, make sure any hot coals or debris are extinguished.
- Let stove cool completely.



Tear Down/Clean for Propane Fuel Source

- Be sure stove is cool.
- Always detach propane cylinder outdoors away from ignition sources.
- Unscrew the quick coupler from the cylinder.
- Detach hose from orifice tube.



- Remove the top grill.
- Remove the heat deflector plate.
- Remove propane burner from the bottom of the cooking chamber.
- Store top grill, bottom grill, and deflector plate in side pouch on your Volcano storage bag.



- Clean top grill with warm water and mild household cleaner.

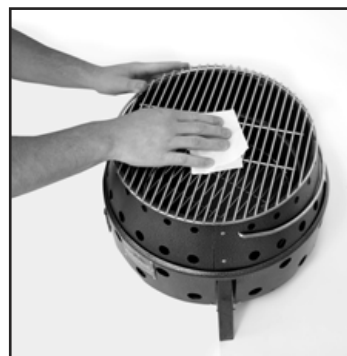
Do not use abrasives.

- Wipe the stove clean with soft cloth and mild household cleaner.

Do not use abrasives.

- Clean the inside of the cooking chamber with mild household cleaner.
- Wipe the cooking chamber clean with soft cloth.
- Make sure the stove is completely dry before storing.

Do not use abrasives.



Tear Down/Clean For Wood/Charcoal

- Make sure stove is cool.
- Remove the top grill.
- Remove the bottom grill.
- Dump any remaining debris or ash in a safe location.



Tear Down/Clean For Wood/Charcoal *cont.*

- Clean out cooking chamber with mild detergent and soft cloth.

Do not use abrasives.



Storage

- Disconnect regulator from cylinder. If stored indoors, detach and leave cylinder outdoors.
- Store propane tank in safe manner. Follow all local Storage and Handling of Liquefied Gases codes. Always store propane tanks outdoors.
- Store stove in a dry, clean and safe place.
- Place the cleaned top grill, bottom grill, diffuser plate, burner cradle and REGULATOR into the Volcano storage bag for storage.
- For long-term storage, clean and dry all stove parts before storing. This will keep the unit clean and ready for the next season.
- Place the stove in the Volcano storage bag and zip it shut.

Maintenance

WARNING



• BURN HAZARD

- Do not touch or attempt any maintenance on stove for at least one hour after use.
- Make sure all controls are off and propane tank has been removed before doing maintenance.

To enjoy years of outstanding performance from your stove, perform the following maintenance activities on a regular basis:

- Keep exterior surfaces clean.
- Use warm soapy water for cleaning. Never use flammable or abrasive cleaning agents.

- Airflow must be unobstructed. Keep controls, burner and circulating air passages clean. Signs of possible blockage include:

- Gas odor
- Stove makes popping noises
- Smoky flame.

- Spiders and insects can nest in burner orifices. This condition can damage the stove and render it unsafe for use. Clean burner holes by using a heavy-duty pipe cleaner. Compressed air may help clear away small particles.

- Carbon deposits may create a fire hazard. Clean burner with warm soapy water if any carbon deposits develop.

- If the stove has been left uncovered and is wet from rain, snow, yard sprinklers, etc., allow to dry (at least 30 minutes prior to use).

• **NOTE:** In a salt-air environment (such as near an ocean), corrosion occurs more quickly than normal. Frequently check for corroded areas and repair them promptly.

Troubleshooting

Problem	Possible Cause	Solution
Burner won't light	Gas pressure is low.	Cylinder is empty. Replace cylinder.
	Air in gas line.	Burner may take up to one minute to light after a propane bottle has been connected.
Burner won't stay lit	Dust and/or dirt built up around burner	Clean dirt and/or dust from around burner.
Burner flame is low	Gas pressure is low	Replace cylinder.
	Outdoor temperature is less than 40°F and tank is less than 1/4 full.	Use a full cylinder.
	Fuel flow is restricted.	Check burner and orifices for blockage. Adjust control knob to full ON position.
Improper Flame (Flame should be blue with hint of yellow on tips)	Fuel flow is restricted.	Check burner, orifices and venturi for blockage (bugs, dirt, cobwebs).

Things you should know

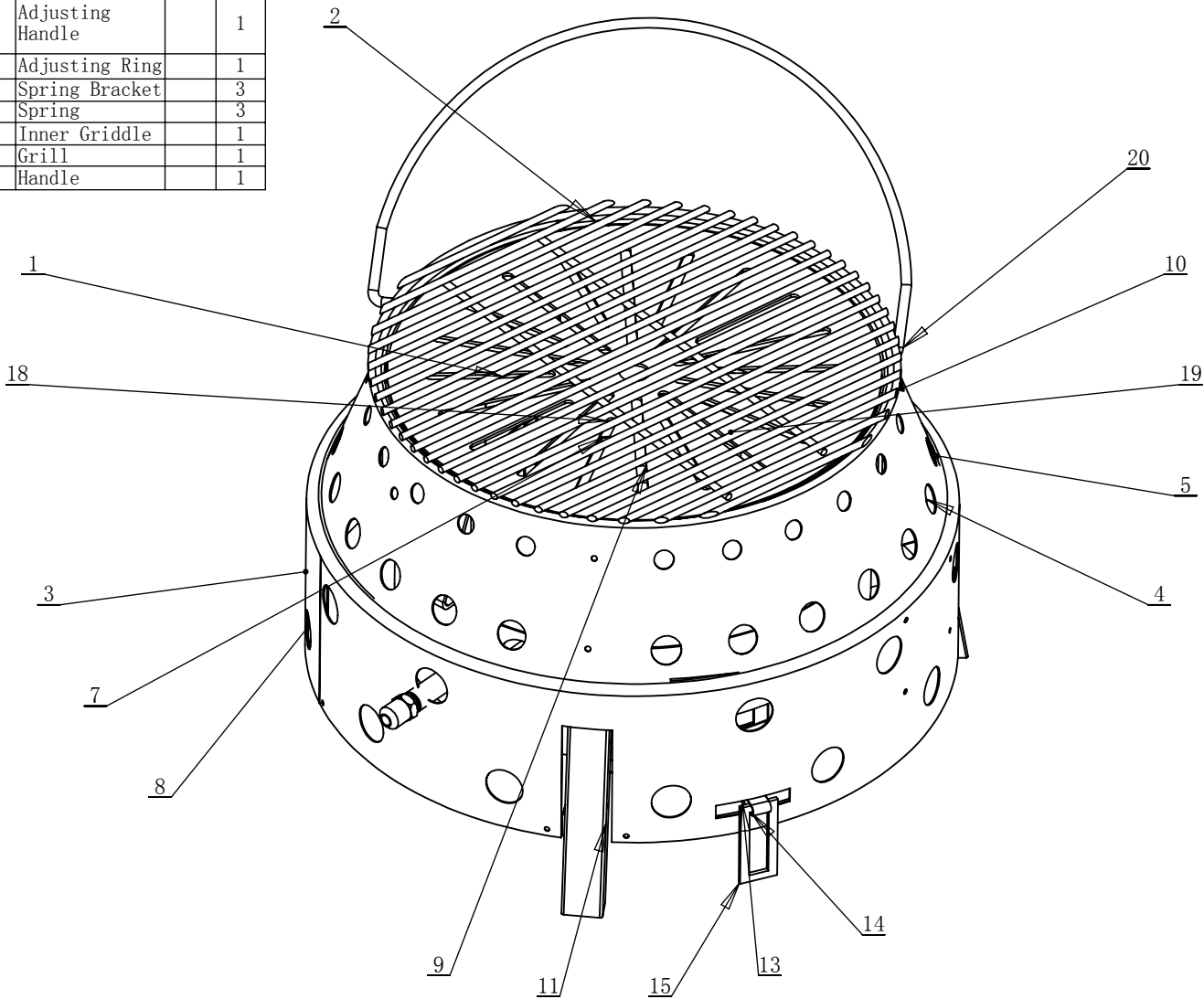
1. It is unsafe and illegal in some places to store or use propane cylinders of greater than 1.14 kg (2.5 lbs) water capacity (approximately 1 lb. propane) in occupied enclosures.
2. If using refillable propane cylinder, use only Coleman parts and accessories.
3. The usual storage areas for camping and picnic equipment are the basement, attic, or garage. To avoid the accumulation of dust, cobwebs, etc., that is common in these areas, place your stove in optional carry case (sold separately) or a plastic bag and seal it with a rubber band.
4. For repair service call one of the numbers listed on the cover of this manual for location of your nearest Volcano Service Center. If product must be mailed to Service Center, attach to product your name, address and a description of problem and mail to Service Center with shipping and insurance prepaid. If necessary to write the Service Center or factory, refer to your stove by model number. Do not send propane cylinder.
5. If not completely satisfied with the performance of this product, please call one of the numbers listed on the cover of this manual.

Service

- Repair to gas passages and associated components should be done only by Volcano or an authorized service person.
- Owner repair and service should be limited and performed only to the following:
 - Cleaning
 - Cylinder replacement
- For Authorized Repair & Service, call 866-320-2002.

Parts List

ITEM NO.	Description	Note	Qty
1	Inner Body 1		1
2	Inner Body 2		1
3	Outer Body		1
4	Triangle Bracket		3
5	Upper Body		1
6	Griddle		1
7	Vent Ring		1
8	Bottom		1
9	Burner Assembly		1
10	Leg Bracket		3
11	Leg		3
12	Shaft		3
13	Adjusting Bar		1
14	Adjusting Handle		1
15	Adjusting Ring		1
16	Spring Bracket		3
17	Spring		3
18	Inner Griddle		1
19	Grill		1
20	Handle		1



Contents - 20-200 Grill

- (1) Volcano Stove
- (1) User Manual
- (1) Bottom Grill
- (1) Top Grill
- (1) Heat Deflector Plate
- (1) Storage Bag



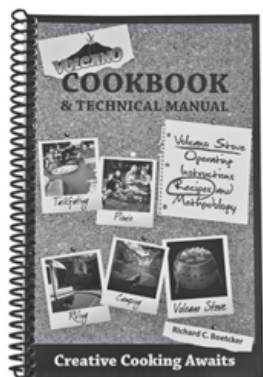
Contents - 20-300 Grill

- (1) Volcano Stove
- (1) Propane Burner
- (1) User Manual
- (1) Bottom Grill
- (1) Top Grill
- (1) Heat Deflector Plate
- (2) Wrenches
- (1) Orifice Tube
- (1) Regulator Hose
- (1) Storage Bag



Accessories

The following accessories are available:



Volcano Cookbook and
Technical Manual
30-600



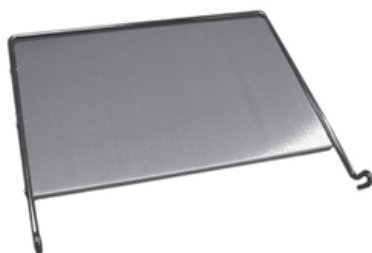
Volcano Lid
30-700



Volcano Rock
Fire Starter
30-024



Volcano Storage Bag
30-510



Utility Tray
30-411



Trivet
30-010



Propane Valve Adaptor
30-390



Handy Handle
30-020

Visit us at www.volcanogrills.com
or
call us at (866) 320-2005

Volcano Limited Warranty

Your Volcano Cook Stove is covered by a one (1) year limited warranty from the original date of purchase against any manufacturing or material defects (excluding paint). During this period of time, manufacturer will correct any defects or flaws associated with your cook stove by replacing or repairing defective parts. Freight charges will be the responsibility of the customer. Manufacturer will not be responsible for repair or replacement of equipment which has been misused, abused, or altered. This product is warranted to perform as described in its labeling and Volcano Corporation literature. Volcano Corporation disclaims any implied warranty of merchantability or fitness for a particular purpose and in no even shall Volcano Corporation be liable for consequential damages. Prior approval and a return of goods authorization (RGA) number are required for all returned merchandise. Any returned merchandise must be accompanied by a copy of the original purchase receipt.

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