



Patio Heater & Light Model 5040 Series

INSTRUCTIONS FOR USE

U.S. and other Patents Pending

© 2000 The Coleman Company, Inc.
www.coleman.com

IMPORTANT

Read this manual carefully before assembling, using or servicing this heater. Keep this manual for future reference. If you have questions about assembly, operation, servicing or repair of this heater, please call Coleman at 1-800-835-3278 or TDD 316-832-8707. In Canada call 1-800-387-6161.



1AS 9-96 & CSA International
Requirement 5.90 U.S.

Propane Tank
Not Included

Outdoor use only

Contents

General Safety Information
Assembly
Leak Check
Mantles
Operation
Storage
Maintenance
Troubleshooting
Service
Parts List
Warranty

General Safety Information

This manual contains important information about the assembly, operation and maintenance of this portable heater. 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 of 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 following symbols shown below 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.

FOR YOUR SAFETY

If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish open flame.
3. If odor continues, immediately call your gas supplier.

General Safety Information *cont.*

FOR YOUR SAFETY

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

▲ **WARNING:** For Outdoor Use Only

▲ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Read the instructions thoroughly before installing or servicing this equipment.

▲ DANGER

Failure to comply with the precautions and instructions provided with this heater 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 heater.

If you need assistance or heater information such as an instruction manual or labels, contact the Coleman Co., Inc.

▲ DANGER



• EXPLOSION - FIRE HAZARD

- Keep solid combustibles, such as building materials, paper or cardboard, a safe distance away from the heater as recommended by the instructions.
- Provide adequate clearances around air openings into the combustion chamber.
- Never use the heater in spaces which do or may contain volatile or airborne combustibles, or products such as gasoline, solvents, paint thinner, dust particles or unknown chemicals.
- During operation, this product can be a source of ignition. Keep heater area clear and free from combustible materials, gasoline, paint thinner, cleaning solvents and other flammable vapors and liquids. Do not use heater in areas with high dust content. Minimum heater clearances from combustible materials: three (3) feet from the sides & two (2) feet from the top.

▲ WARNING

We cannot foresee every use which may be made of our heaters. Check with your local fire safety authority if you have questions about heater use.

Other standards govern the use of fuel gases and heat producing products for specific uses. Your local authorities can advise you about these.

If no local codes exist, follow National Fuel Gas Code, ANSI Z223.1. In Canada, installation must conform to local codes. If no local codes exist, follow the current National standards of CANADA CAN/CGA-B 149.2.

⚠ DANGER



• CARBON MONOXIDE HAZARD

- This heater is a combustion appliance. All combustion appliances produce carbon monoxide (CO) during the combustion process. This product is designed to produce extremely minute, non-hazardous amounts of CO if used and maintained in accordance with all warnings and instructions. Do not block air flow into or out of the heater.
- 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 heater 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 or 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.

⚠ 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 heater is lighted, near flame, pilot lights, other ignition sources or while heater is hot to touch.
- This heater is red hot during use and can ignite flammables too close to the burner. Keep flammables at least 3 feet from sides & 2 feet from top. Keep gasoline and other flammable liquids and vapors well away from heater.
- The propane tank must always be stored outdoors in a well ventilated space. Never store propane tank in an enclosed area (house, garage, etc.) If heater is to be stored indoors, disconnect the propane tank for outdoor storage.

⚠ WARNING



• BURN HAZARD

- Never leave heater unattended when hot or in use.
- Keep out of reach of children.

⚠ CAUTION

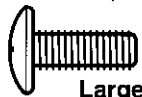
• SERVICE SAFETY

- Keep all connections and fittings clean. Make sure propane tank valve outlet is clean.
- Inspect hose before use. Replace if there is evidence of abrasion or wear.
- During set up, check all connections and fittings for leaks using soapy water. Never use a flame.
- Use as a heating appliance only. Never alter in any way or use with any device or part not expressly approved by Coleman.

Assembly

Step 1

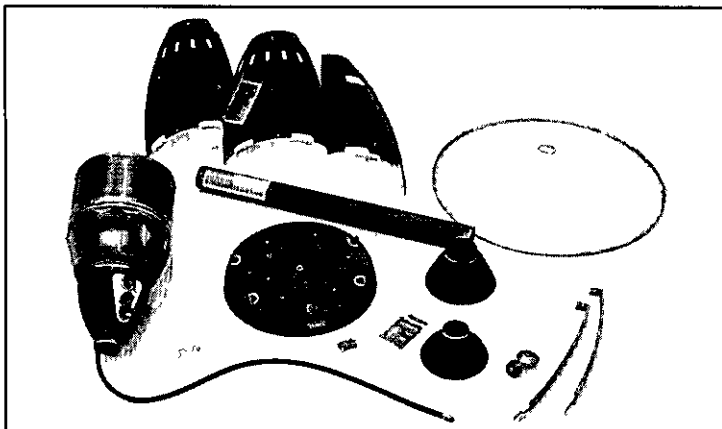
- Remove all components from package



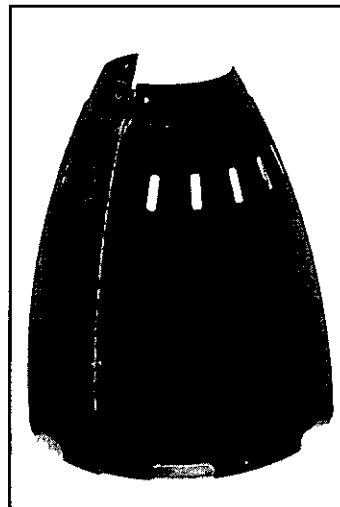
18 Required
Large Screw



6 Required
Small Screw



- Align 2 cylinder cover pieces



- Attach Post Base to cylinder cover pieces



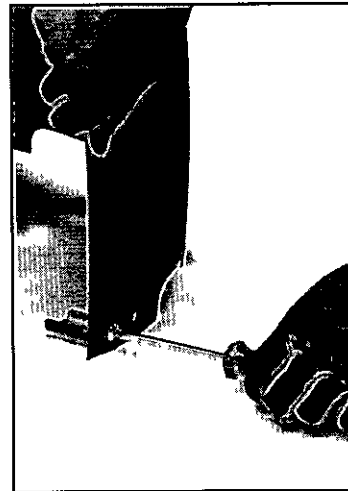
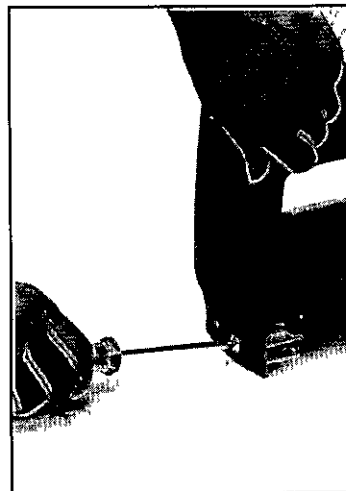
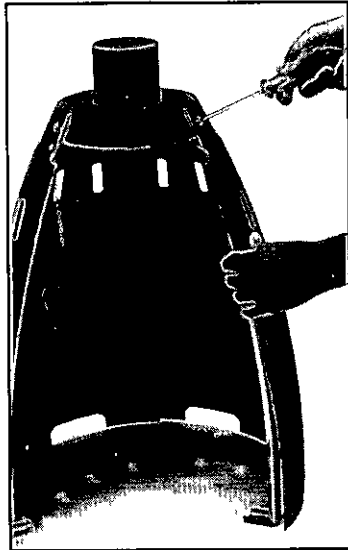
Assembly *cont.*

Step 1 (cont)

- Install Truss head screws loosely

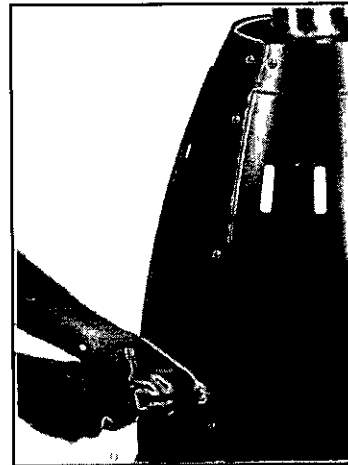
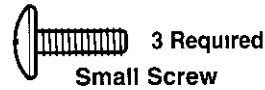


- Attach support brackets to cylinder cover pieces loosely



Step 2

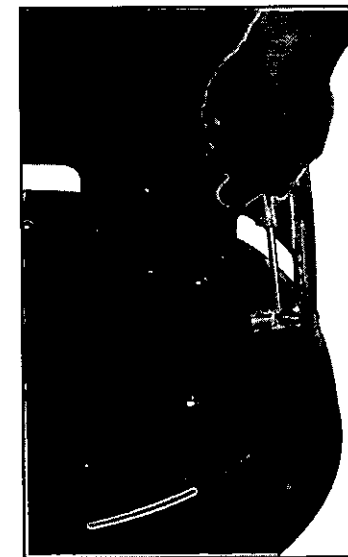
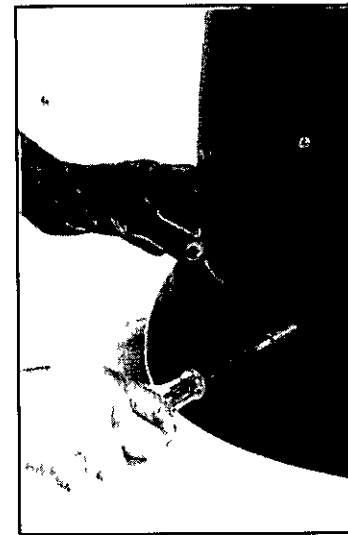
- Install truss head screws loosely to join sections of cylinder cover



Step 3

- Set cylinder cover assembly on top of heater base

- Attach support brackets & cylinder cover pieces to base



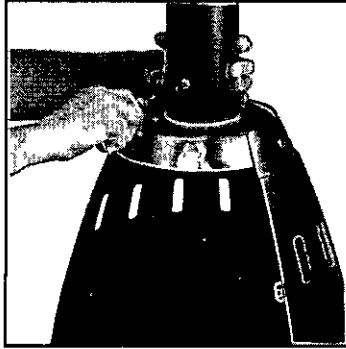
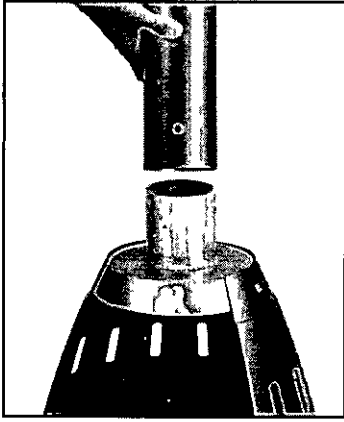
- Tighten all previously installed screws

Assembly *cont.*

Step 4

- Install post onto post base
- Decal on post should face front of heater (see photo on front cover)

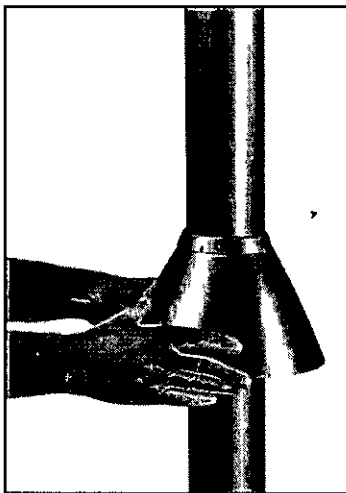
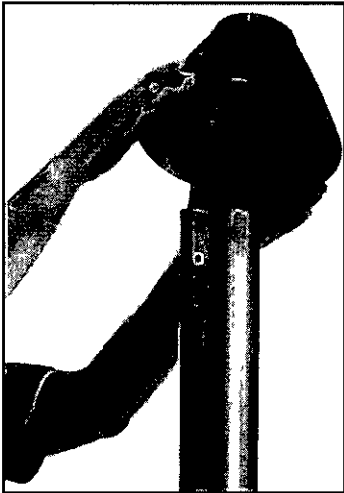
- Attach post to post base using truss head screws
- Tighten screws securely



Step 5

- Load cover onto post

- Slide cover down



Step 6

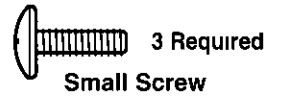
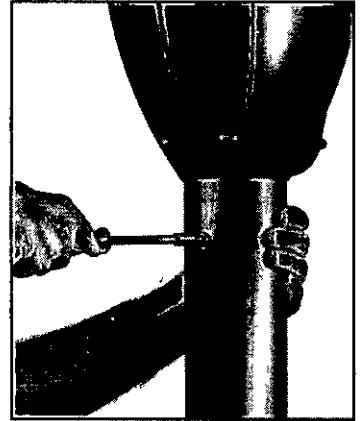
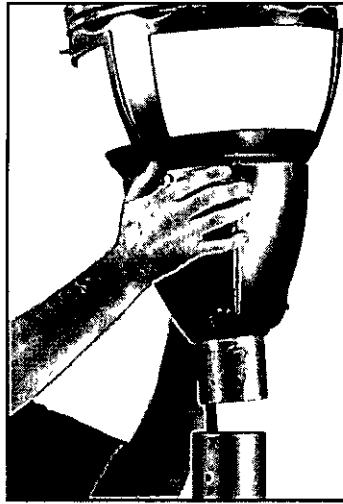
- Load head assembly by inserting hose into post



Step 6 (cont)

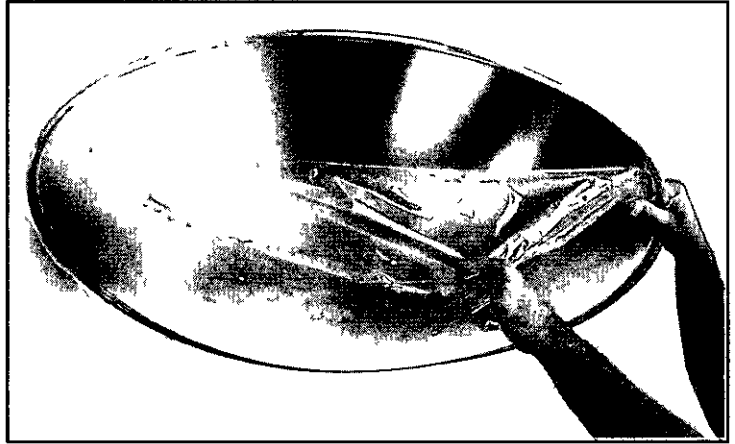
- Insert head assembly into post
- Control knob should be above decal on post

- Attach head assembly to post
- Tighten screws securely

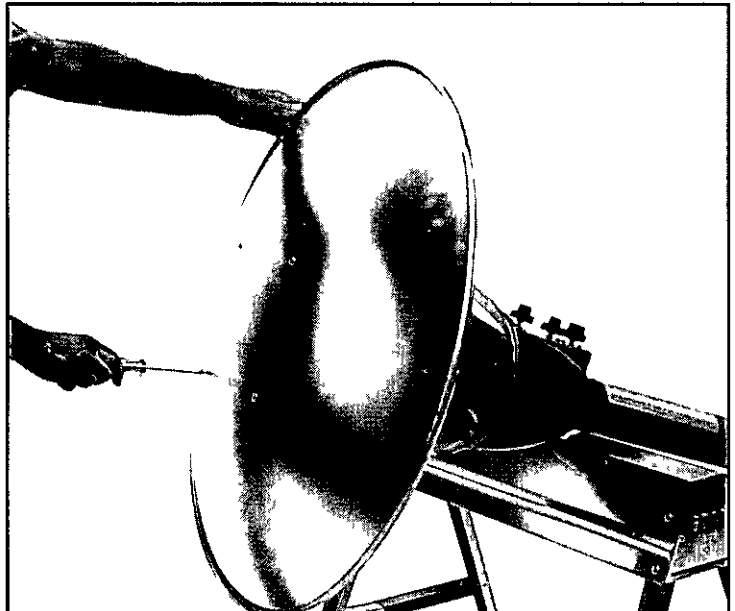


Step 7

- Remove protective film



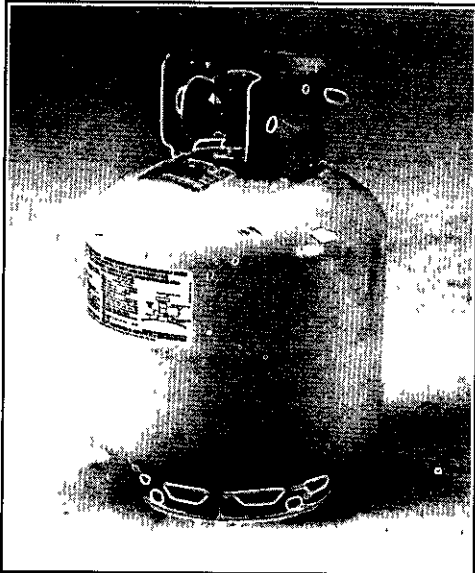
- Support Heater
- Install & tighten screws securely



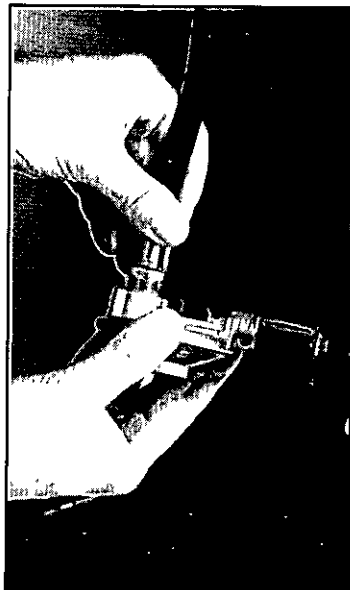
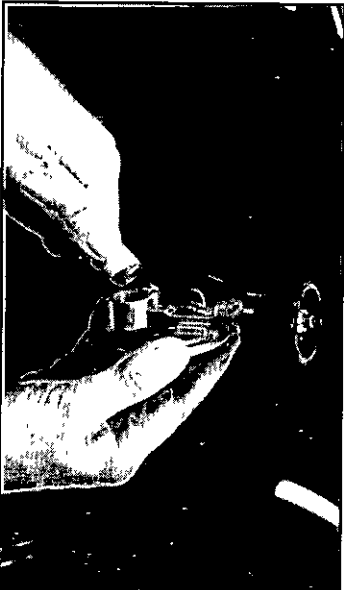
Step 8

- You must provide propane gas and propane tank Use a standard 20 lb propane tank only
- Use this heater only with a propane vapor withdrawal supply system See Chapter 5 of the *Standard for Storage and Handling of Liquefied Petroleum Gas, ANSI/NFPA 58* Your local library or fire department will have this book
- A minimum supply pressure of 11.0 W.C. is required for the purpose of input adjustment for propane gas
- The pressure regulator and hose assembly supplied with the appliance must be used
- The installation must conform with local codes, or in the absence of local codes, with National Fuel Gas Code, ANSI Z223.1
- A dented, rusted or damaged propane tank may be hazardous and should be checked by your tank supplier Never use a propane tank with a damaged valve connection
- The propane tank must be constructed and marked in accordance with the specifications for LP gas cylinders of the U.S. Department of Transportation (DOT)
- Never connect an unregulated propane tank to the heater

Standard 20 lb tank



- Remove plastic protective cover from hose
- Screw regulator onto hose Do not crossthread



■ Tighten Securely



■ Install tank



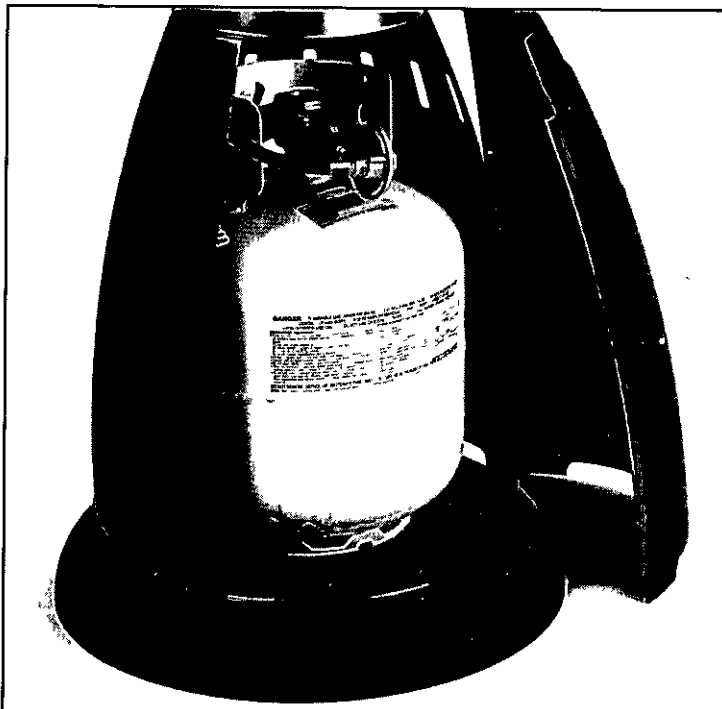
■ Attach regulator to tank



■ Complete attachment



■ Install tank

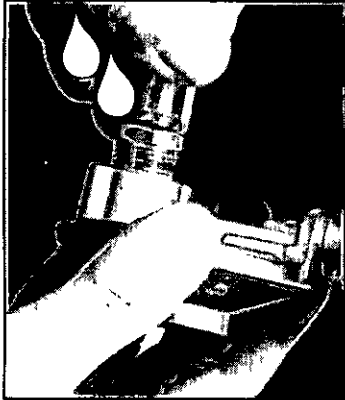


Leak Check

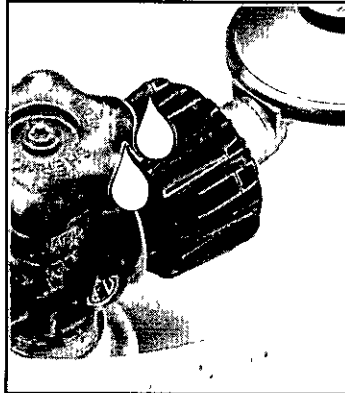
▲ WARNING

- Perform all leak tests outdoors
- Extinguish all open flames
- NEVER leak test when smoking
- Do not use the heater until all connections have been leak tested and do not leak

Hose/Regulator Connection



Regulator/Cylinder Connection



- Make 2-3 oz. of leak check solution (one part liquid dishwashing detergent and three parts water)
- Apply several drops of solution where hose attaches to regulator
- Apply several drops of solution where regulator connects to Cylinder
- Make sure all Patio Heater & Light valves are OFF
- Turn Cylinder Valve ON

If bubbles appear at any connection, there is a leak.

- Turn Cylinder Valve OFF
- If leak is at Hose/Regulator connection tighten connection and perform another leak test. If you continue to see bubbles after several attempts, contact 1-800-835-3278 for assistance
- If leak is at Regulator/Cylinder Valve connection disconnect, reconnect, and perform another leak check. If you continue to see bubbles after several attempts, cylinder valve is defective and should be returned to cylinder's place of purchase

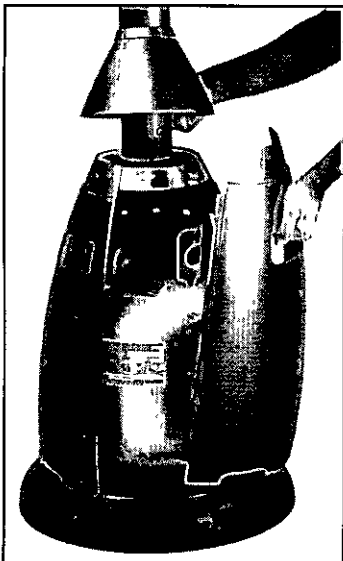
If NO bubbles appear at any connection, the connections are secure.

- Turn Cylinder Valve OFF

NOTE: Whenever gas connections are loosened or removed, you must perform a complete leak test.

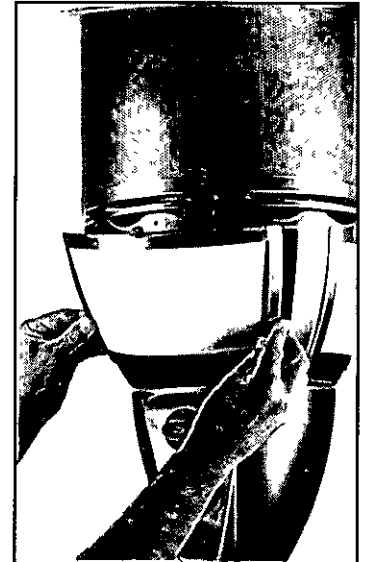
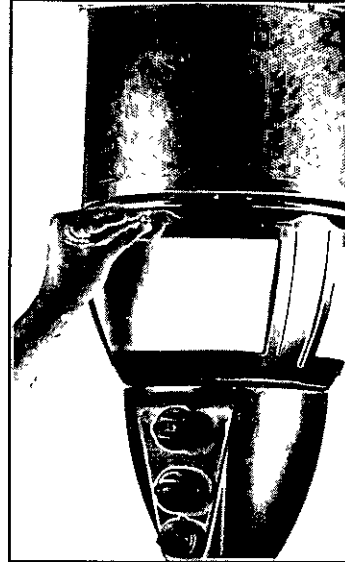
- Lift cover while installing remaining cylinder cover section

- Complete installation

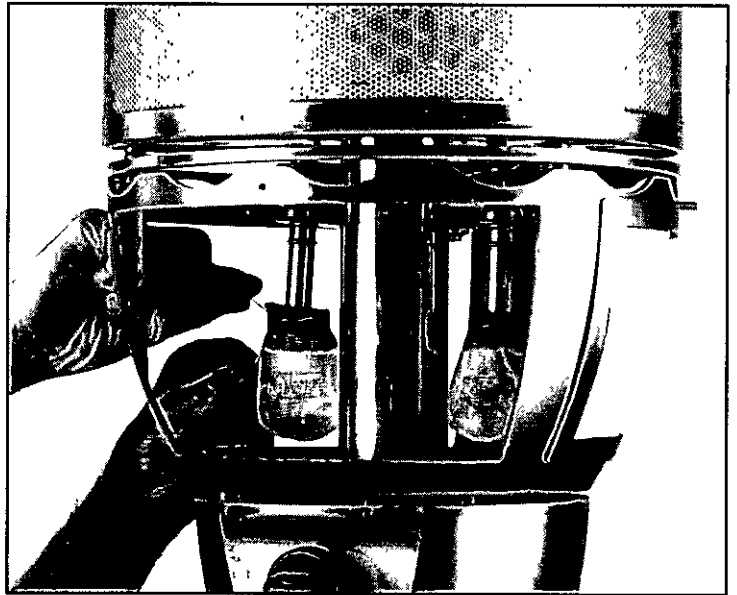


Mantles

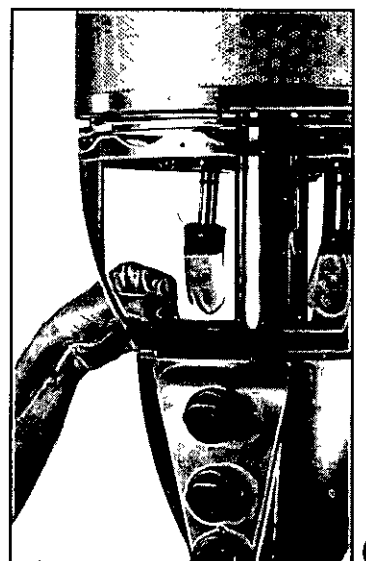
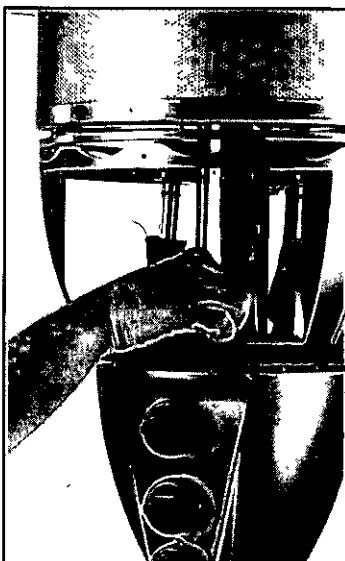
- Remove 2 glass panels



- Tie mantles around groove in burners



- Light bottom of mantles evenly. Burn until nothing but white ash remains. Once mantle has been burned it's very fragile. Be careful not to touch it with a finger or match. Install glass panels.



Operation

⚠ DANGER



• CARBON MONOXIDE HAZARD

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

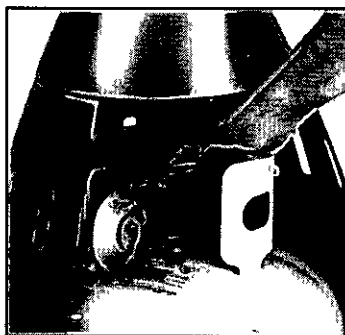
⚠ DANGER



• EXPLOSION - FIRE HAZARD

- Never store propane near high heat, open flames, pilot lights, direct sunlight, other ignition sources or where temperatures exceed 120 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 heater is lighted, near flame, pilot lights, other ignition sources or while heater is hot to touch.
- This heater is red hot during use and can ignite flammables too close to the burner. Keep flammables at least 3 feet from sides & 2 feet from top. Keep gasoline and other flammable liquids and vapors well away from heater.
- The propane tank must always be stored outdoors in a well ventilated space. Never store propane tank in an enclosed area (house, garage, etc.) If heater is to be stored indoors, disconnect the propane tank for outdoor storage.

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



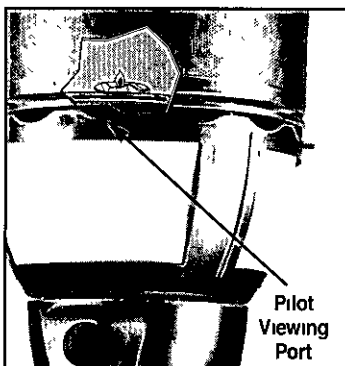
- Turn cylinder valve on

Lighting Instructions for HEATER

- 1 Push in and rotate (counter clockwise) Heater control knob to the Pilot position and release.
- 2 Push in on Heater control knob and rotate Igniter knob until pilot is lighted.

Note: Initial lighting after gas cylinder change can take up to two (2) minutes to purge any air that may be in the line.

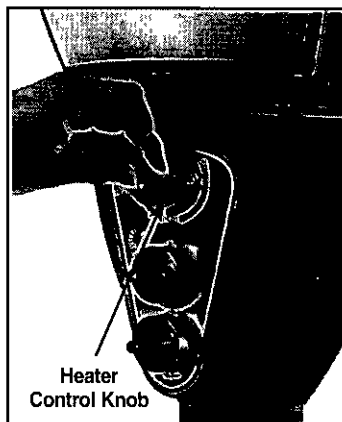
- 3 Pilot light will ignite and be visible from viewing port. Continue to push Heater control knob in for 30 to 60 seconds after pilot is on, then release knob. Pilot light must remain on, if not return to step 1.



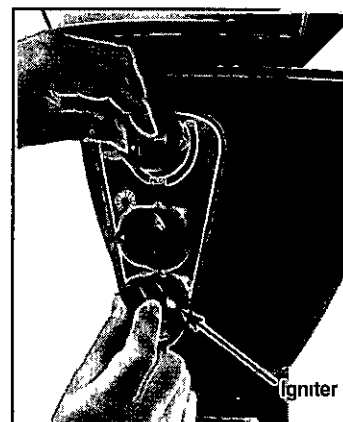
Pilot Viewing Port

Note: If pilot fails to remain lighted, all valves should be closed and a waiting period of at least 5 minutes should pass before attempting to light.

- 4 Rotate Heater control knob to ON position. Heater burner will light and be visible through screen of heater. If Main burner does not light, turn off Heater control knob and return to Step 1.



Heater Control Knob



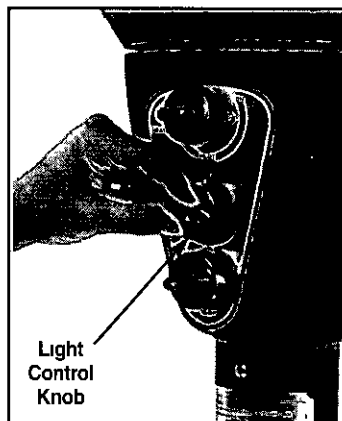
Igniter

Lighting Instructions for LIGHT

- 1 Push in and rotate Light control knob to the ON position and rotate the Igniter until BOTH mantles are lighted.

Note: If BOTH mantles are not lighted within 5 seconds, turn Light control knob to OFF position. All controls should be turned to the OFF position and a period of at least 5 minutes should pass before reattempting to light burners.

- 2 Mantles will light and begin to glow which can be seen through the windows. If the mantles do not light or fail to remain lighted turn OFF Light control knob and return to Step 1.



Light Control Knob



- Heater can be operated with heater & light both operating or each operating separately.

Shut Down Procedure HEATER

- 1 Rotate Heater control knob (clockwise) to pilot position.
- 2 Push in on Heater control knob and rotate (clockwise) to OFF position.

LIGHT

- 1 Push in and rotate Light control knob (clockwise) to OFF position.

The gas supply must be turned off at the LP-gas cylinder when this appliance is not in use.

Storage

Disconnect heater from propane tank before long term storage of either the cylinder or the Heater.

- 1 Turn cylinder valve off
- 2 Disconnect regulator from cylinder
- 3 Remove tank from Heater
- 4 Store propane tank in safe manner Refer to Chapter 5 of *Standard for Storage and Handling of Liquefied Gases, ANSI/NFPA 58* Follow all local codes Always store propane tanks outdoors
- 5 Store heater in a dry, clean, and safe place

⚠ WARNING



• BURN HAZARD

- Do not touch or attempt any maintenance on Heater for at least 1 hour after use
- Make sure all controls are off and propane tank has been removed before doing maintenance

Maintenance

To enjoy years of outstanding performance from your Heater perform the following maintenance activities on a regular basis.

- Keep exterior surfaces clean.
- Use warm soapy water for cleaning Never use flammable or corrosive cleaning agents
- While cleaning your unit, be sure to keep the area around the burner, pilot assembly and mantle area dry at all times If the regulator is exposed to water in any way, do NOT try to use it It must be replaced
- Air flow must be unobstructed Keep controls, burner, and circulating air passages clean. Signs of possible blockage include
 - Gas odor with extreme yellow tipping of flame
 - Heater does NOT reach the desired temperature
 - Heater glow is excessively uneven
 - Heater makes popping noises
 - Light is uneven or burns with a yellow smokey flame
- Spiders and insects can nest in burner orifices This condition can damage heater 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 light and burner with warm soapy water if any carbon deposits develop
- 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
Pilot won't light	Cylinder valve is closed	Open valve
	Blockage in orifice or pilot tube	Clean or replace orifice or pilot tube
	Air in gas line	Pilot may take 1-2 minutes to light after a propane bottle has been connected
	Low gas pressure with Cylinder Valve fully open	Cylinder is empty Replace cylinder
	Igniter fails	Use match to light pilot. Obtain new lighter and replace
	Heater control knob not fully depressed in pilot position when lighting pilot	Depress heater control knob firmly in light position when lighting pilot
Pilot won't stay lit	Dirt built up around pilot	Clean dirt from around pilot
	Connection between gas valve and pilot assembly is loose	Tighten connection and perform leak check
	Thermocouple is not operating correctly	Replace Thermocouple
Burner won't light	Gas pressure is low	Turn Cylinder valve OFF and replace cylinder
	Blockage in orifice	Clear blockage
	Control knob is not in ON position	Turn control knob to ON
Light won't light	Gas pressure is low	Turn Cylinder valve OFF and replace cylinder
	Blockage in orifice	Clear blockage
	Control knob is not in ON position	Turn control knob to ON
Burner flame is low <small>NOTE Do not operate heater below 0° F</small>	Gas pressure is low	Turn Cylinder valve OFF and replace cylinder
	Outdoor temperature is less than 40° F and tank is less than 1/4 full	Use a full cylinder
	Supply hose is bent or kinked	Straighten hose
	Control knob fully ON	Check burner and orifices for blockage
Carbon build-up	Dirt or film on reflector and emitter	Remove blockage and clean burner inside and outside
Thick black smoke from burner or light	Blockage in burner or in light gas passages	Remove blockage and clean burner inside and outside

Service

- Repair to gas passages and associated components should be done only by a qualified service person
- Owner repair & service should be limited and performed only to the following
 - Mantle replacement
 - Glass replacement
 - Reflector replacement

Coleman Limited 7-Year Warranty

Coleman will repair or replace, at its option, this product or any component found to be defective in materials or workmanship within seven years of the original retail purchase

This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferrable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. Coleman dealers, service centers, or retail stores offering Coleman products do not have authority to alter, modify or in any way change the terms or conditions of this warranty

WHAT IS NOT COVERED

- Cost of shipment to Coleman
- Normal wear and tear, including chips, scratches, abrasion, discoloration or fading from use or exposure to sunlight
- Damage caused by misuse, abuse, neglect, alterations, repairs by unauthorized persons, use of non-Coleman accessories or parts, or failure to follow recommended care or maintenance instructions
- Products used for commercial purposes or in profit or non-profit instructional or rental operations
- Mantles, generators, light bulbs, batteries or fuel
- CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, OR EXPENSES, INCLUDING DAMAGES TO PROPERTY. SOME STATES/PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

IMPLIED WARRANTIES

Any implied warranties, either statutory or otherwise, including implied warranties of merchantability and fitness for a particular purpose, shall be limited to the duration and terms of the express warranties set forth in this limited warranty. Some states/provinces do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

HOW TO OBTAIN WARRANTY PERFORMANCE

Take the product to an authorized Coleman Service Center. If one is not conveniently located, attach a tag to the product which includes your name, address, telephone number and description of the problem. Include a copy of the original sales receipt. Carefully package the product and send prepaid either by U.P.S. or Parcel Post, insured to USA. The Coleman Company Inc., 3600 N. Hydraulic, Wichita, KS 67219, or CANADA The Canadian Coleman Co., Ltd., 5975 Falbourne Street, Mississauga, Canada L5R 3V8. Please do not mail products with fuel in tanks, or with disposable propane cylinders. Remove glass globes from lanterns.

If you are located outside the United States or Canada, return this product to the place you purchased it, or to any other retailer seller of similar Coleman products, and request warranty assistance. If you are unable to obtain warranty assistance, then you may call any of the following Coleman offices for further assistance:

www.coleman.com

The Coleman Co., Inc.
3600 N. Hydraulic
Wichita, KS 67219 U S A.
1-800-835-3278
TDD 316-832-8707

