

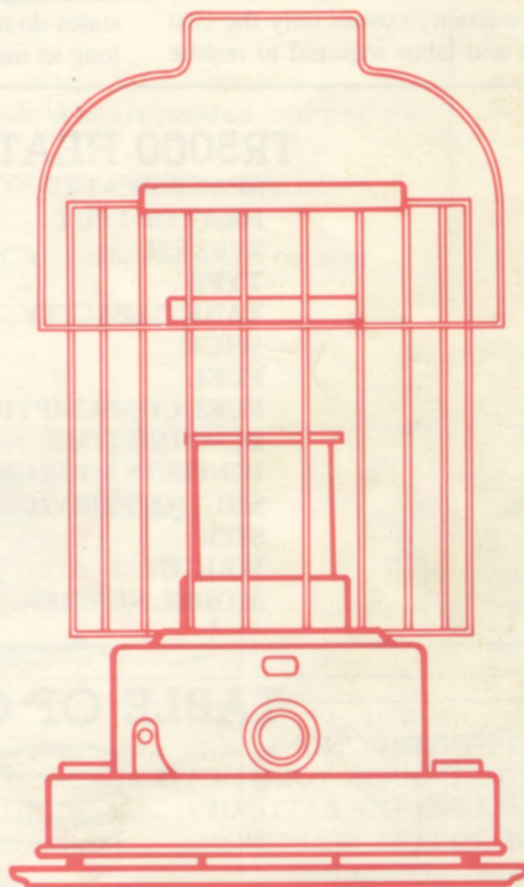


Aladdin®

PORTABLE KEROSENE HEATER

INSTRUCTION MANUAL

MODEL TR5000



IMPORTANT: READ CAREFULLY AND SAVE THIS INSTRUCTION MANUAL WHICH CONTAINS IMPORTANT SAFETY INSTRUCTIONS. TO BE USED ONLY IN ACCORDANCE WITH STATE AND/OR LOCAL REGULATIONS, ORDINANCES AND CODES.

Aladdin Enterprise Products, Inc. P.O. Box 101430, Nashville, TN 37210

ALADDIN® HEATER LIMITED WARRANTY

ALADDIN® portable kerosene heaters sold at retail in the United States are warranted to the original retail purchaser for a period of one year from the date of purchase to be free from any defects in material or workmanship and to be fit for normal use provided they are used and maintained according to the instructions furnished with each product. Under the terms of the warranty, your product will be repaired or replaced without charge when returned to an Authorized Service Center. For assistance in locating an Authorized Service Center near you, contact the store where you bought the heater or call toll free at 800-325-4828.

This warranty covers only the cost of parts and labor required to restore

the product to proper operating condition. Transportation and incidental costs associated with warranty repairs are not reimbursable under this warranty.

This warranty does not cover normal wear and tear on parts such as, but not limited to, wicks, batteries, glow plugs and siphon pumps.

These products are covered by no other express warranties. Any implied warranties are limited in duration to one year from the date of purchase. **THIS WARRANTY EXCLUDES ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING INJURY TO PERSONS OR PROPERTY.** Some states do not allow limitations on how long an implied warranty lasts, or con-

sequential damages so the above limitations and exclusions may not apply to you.

There is no warranty covering damages for use of any fuels other than 1-K kerosene, or for damages, or for failure to follow safety instructions for use and maintenance.

Any modification, repairs or changes excepting 1) repairs by an Authorized Service Center, 2) adjustments described in the owner's manual and 3) replacement of wicks, glow plugs, batteries, etc. as described in the owner's manual will void this warranty.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

TR5000 HEATER SPECIFICATIONS

SPACE HEATED	Approx. 25' x 26' area
HEAT OUTPUT	18,500 BTU's per hour
SYSTEM	Kerosene Wick System
TYPE	Omnidirectional
TANK CAPACITY	1.3 gallons
WICK	Fiberglass Part No. SW5620
FUEL	ASTM 1-K Kerosene
FUEL CONSUMPTION	1.10 Pints per hour
BURNING TIME	Approx. 9-10 hours
IGNITION SOURCE	"D" Batteries, two required
SHUT-OFF DEVICE	Wick Drop System
SIZE	16½" x 16½" x 23½"
WEIGHT	21 lbs.
MODEL NUMBER	TR5000

TABLE OF CONTENTS—TR5000

SAFETY INSTRUCTIONS	2
HOW TO UNPACK YOUR HEATER	4
INSTALLING THE BATTERIES.....	4
GUIDE TO FUEL SELECTION.....	4
FUELING/REFUELING.....	5
OPERATING INSTRUCTIONS	6
CARE OF THE IGNITION GLOW PLUG	7
IGNITION GLOW PLUG REPLACEMENT	8
REPLACEMENT OF WIRE COIL & GLASS CHIMNEY COLLAR	8
CARE OF THE WICK	8
WICK REPLACEMENT	9
STORAGE OF HEATER	12
TROUBLESHOOTING.....	13
PARTS LIST FOR TR5000	14
WARNING MARKINGS.....	15

SAFETY INSTRUCTIONS

IMPORTANT: READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE OPERATING OR SERVICING THIS HEATER. RETAIN THESE INSTRUCTIONS FOR FURTHER REFERENCE.



SAFETY ALERT SYMBOL

This is the industry "Safety Alert Symbol." This symbol is used to call your attention to items or operations that could be dangerous to you or other persons using this equipment. Please read these messages carefully.

It is essential that you read the instructions and safety regulations before you attempt to assemble or use this unit.

There are two classes of hazards identified by the signal words DANGER, WARNING and CAUTION.

The classes of hazards are defined as follows:

DANGER - Immediate hazards which WILL result in severe personal injury or death.

WARNING - Hazards or unsafe practices which COULD result in personal injury

CAUTION or death.

Please note all the DANGER, WARNING and CAUTION statements on your heater and in this manual.

WARNING:

1. RISK OF EXPLOSION:

- A. **NEVER** use any fuel other than No. 1-K kerosene. **NEVER** use gasoline. (See Fig. 1a)
- B. **NEVER** refill heater fuel tank when heater is operating or still hot.
- C. **NEVER** fill heater fuel tank in living space. Fill heater tank outdoors.
- D. **NEVER** use heater in areas where flammable vapors or gases may be present. (See Fig. 1b)
- E. **NEVER** store or transport kerosene in other than a metal container that is acceptable for kerosene, nonred in color, and clearly marked, "kerosene." Never store kerosene in the living space. (See Fig. 1c)



Fig. 1a

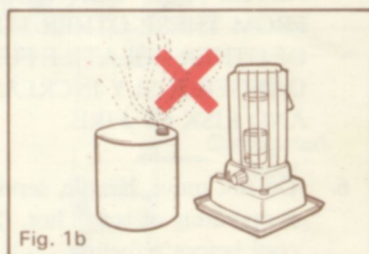


Fig. 1b

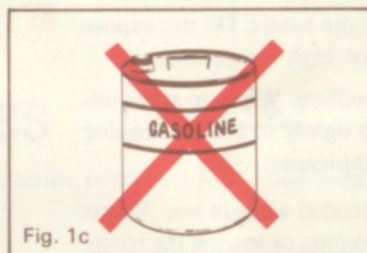


Fig. 1c

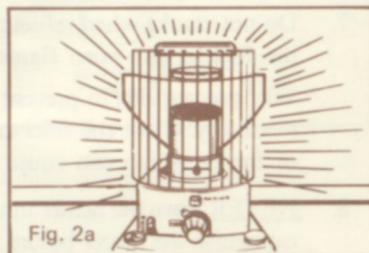


Fig. 2a

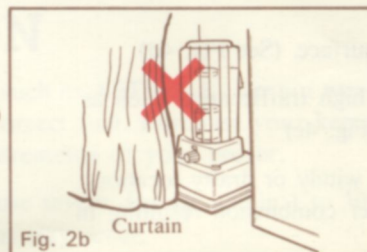


Fig. 2b

Curtain

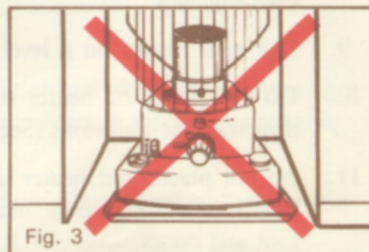


Fig. 3

WARNING:

2. HEATER IS HOT WHILE IN OPERATION.

DUE TO HIGH SURFACE TEMPERATURES. KEEP CHILDREN, CLOTHING, AND FURNITURE AT LEAST THREE FEET AWAY FROM THE HEATER WHILE IN OPERATION. (See Fig. 2a, 2b)

WARNING:

3. RISK OF INDOOR AIR POLLUTION:

USE HEATER ONLY IN WELL-VENTILATED AREAS. (See Fig. 3) People with breathing problems should consult a physician before using the heater.

SAFETY INSTRUCTIONS

In a house of typical construction, that is, one that is not of unusually tight construction due to heavy insulation and tight seals against air infiltration, an adequate supply of air for combustion and ventilation is provided through infiltration. However, if the heater is used in a small room where less than 200 cubic feet (5.7 m³) of air space is provided for each 1000 Btu per hour of heater rating (considering the maximum burner adjustment), the door(s) to adjacent room(s) should be kept open or a window to the outside should be open at least 1 inch (25.4 mm) to guard against potential buildup of indoor air pollution. Do not use the heater in a bathroom or any other small room with the door closed.

WARNING:

4. Do not place anything on top of the heater. Do not attempt to use the heater for cooking or warming foods. Do not hang clothes near or directly over the unit.
5. Use only uncontaminated, water clear kerosene such as ASTM 1-K. Do not use diesel fuel or fuel oil.
NEVER USE GASOLINE, NAPHTHA, PAINT THINNER, ALCOHOL, OR OTHER VOLATILE FUELS. (See Fig. 4a)

WARNING:

NEVER USE CONTAINERS HAVING RESIDUE FROM THESE OTHER FUELS. SMALL AMOUNTS OF OTHER VOLATILE FUELS SUCH AS GASOLINE DANGEROUSLY INCREASE THE FLAMMABILITY AND RISK OF FIRE.

6. Do not move, handle, service, or refuel heater while it is operating or is still hot. (See Fig. 4b) Allow heater to cool before refueling.
7. Do not smoke when refueling the heater. Do not expose the fuel to any open flame or high temperatures.
Take precautions to prevent spilling. Wipe up spills immediately. Close the filler cap tightly to prevent leaking of fumes which can cause unpleasant odor.
8. NEVER leave the heater unattended while in use. Always extinguish the heater before sleeping or leaving the room. (See Fig. 4c)
9. Use your heater on a level surface. (See Fig. 4d)
10. Do not place the heater in high traffic areas such as doorways or hallways. (See Fig. 4e)
11. Do not place your heater in windy or drafty locations. Drafts may cause poor heater combustion resulting in soot and odors.

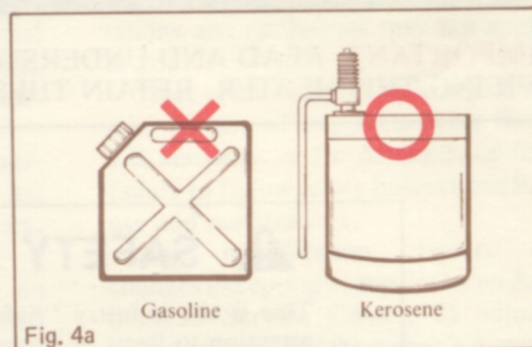


Fig. 4a



Fig. 4b

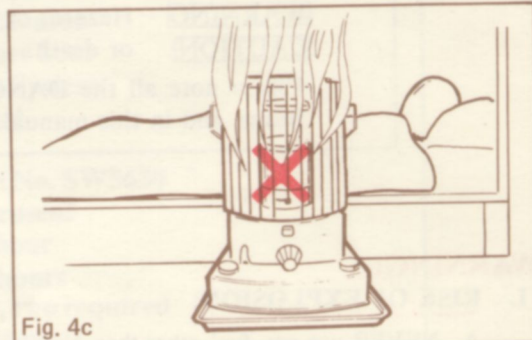


Fig. 4c

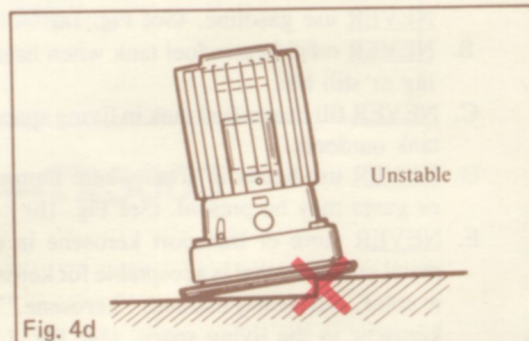


Fig. 4d

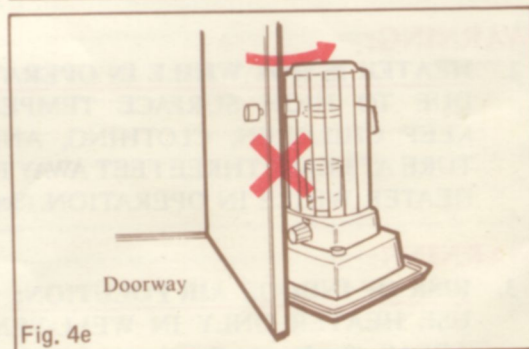


Fig. 4e

SAFETY INSTRUCTIONS

12. **NEVER** use heater in a moving vehicle. Motion can cause fuel spillage and increase risk of fire. Do not transport heater in a vehicle without first emptying fuel tank or fuel spillage will result.
13. If the heater must be disassembled for any reason (such as wick changing or cleaning heater) test it in a safe open area after reassembling to insure proper operation.
14. **NEVER** attempt to repair or patch a damaged fuel tank. A damaged fuel tank must be replaced.
15. If you suspect that the heater is not working properly, extinguish it immediately by pushing the shut-off lever down and consult trouble-shooting guide or service center. (See Fig. 4f)

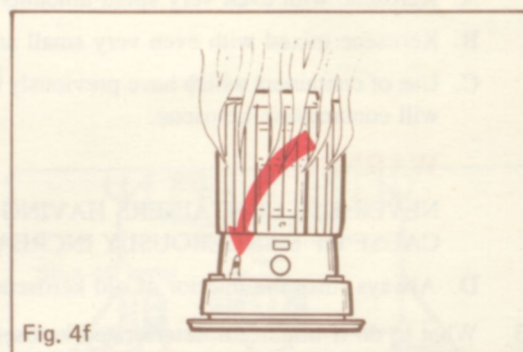


Fig. 4f

HOW TO UNPACK YOUR HEATER

1. Remove the two batteries and siphon pump from the carton.
2. Carefully lift the heater from carton and remove external packing materials.
3. Remove top plate assembly...Loosen screws on either side, turn top plate counterclockwise, and lift it up. It is not necessary to remove the screws (See Fig. 5).
4. Remove the corrugated paper wrapping the burner and the foam pad under the burner (See Fig. 6).
5. Make certain the wick is completely lowered by depressing the shut-off lever.
6. Place the burner back on outer wick guide and replace top plate assembly, making sure top plate assembly is secure.

NOTE: YOU MAY WISH TO SAVE THE CARTON FOR STORING YOUR HEATER DURING OFF SEASONS.

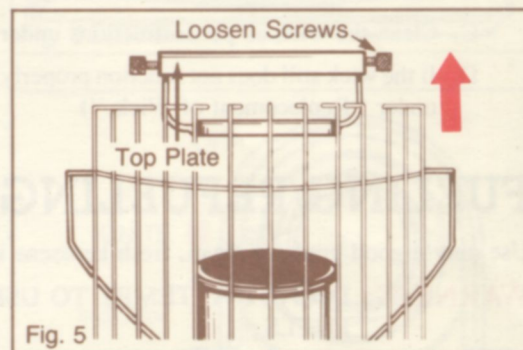


Fig. 5

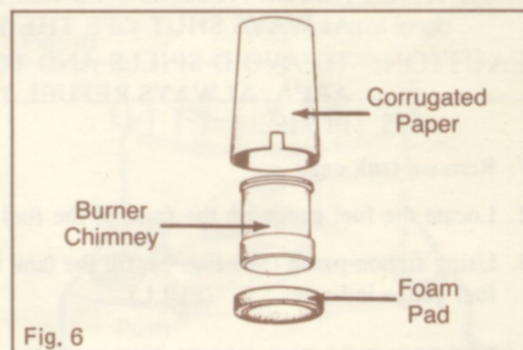


Fig. 6

INSTALLING THE BATTERIES

The battery case is located in the back of the heater. Install both batteries, being sure to position them as indicated on the battery case.

GUIDE TO FUEL SELECTION

Use only PURE CLEAN, WATER CLEAR KEROSENE, such as ASTM 1-K. Do not use diesel fuel, fuel, oil, or heating oil. The proper operation of your heater depends on the correct fuel. Purchase your kerosene from a reliable, reputable source and always check that the kerosene meets the requirements of your heater.

1. Use of inferior kerosene (deteriorated or impure) will cause severe damage within 1 to 30 days. Depending on the specific impurity or contamination, any of the following symptoms may occur:
 - A. Plugged wick—low flame level, insufficient heat—Chimney does not glow properly or heater burns only a few minutes.
 - B. STRONG odor.
 - C. Tar or carbon buildup on wick which, if extreme, can make wick lowering difficult.

2. Determination of impure or deteriorated kerosene:

DETERIORATION

- A. Badly deteriorated kerosene is yellow and has a sour smell. Good quality kerosene is as clear as tap-water.
- B. Kerosene stored for extended periods of time becomes deteriorated.
Use fresh kerosene only. Kerosene stored in plastic containers may deteriorate in 1-2 weeks.
- C. Kerosene stored in direct sunlight, high temperatures, or open containers deteriorates rapidly.

IMPURITIES

- A. Kerosene with even very small amounts of water or dirt content.
- B. Kerosene mixed with even very small amounts of other oils such as machine oil, vegetable oil, or lubricating oil.
- C. Use of containers which have previously been used to store other oils or fuels or pumps which have been used for other fuels will contaminate kerosene.

WARNING:

NEVER USE CONTAINERS HAVING RESIDUAL AMOUNTS OF VOLATILE FUELS SUCH AS GASOLINE, BECAUSE OF DANGEROUSLY INCREASED FLAMMABILITY AND RISK OF FIRE!!

- D. Always rinse the interior of old kerosene containers with clean kerosene several times, prior to use.
3. What to do if impure or deteriorated kerosene is used:
- A. Drain old kerosene from fuel tank. Rinse with clean kerosene several times. (If any of the impure kerosene remains the trouble may recur.)
 - B. Fill heater with clean, fresh kerosene.
 - C. Clean the wick as per instructions under "Care of the Wick."
 - D. If the wick still does not function properly after cleaning, the wick must be replaced to obtain proper heating. (See instructions under "Replacement of Wick.")

FUELING/REFUELING

Use only a good grade of clean, fresh kerosene in your heater (See "Guide to Fuel Selection").

WARNING: DO NOT ATTEMPT TO USE GASOLINE, ALCOHOL, PAINT THINNER OR OTHER VOLATILE FUELS.

WARNING: NEVER ATTEMPT TO REFUEL YOUR HEATER IF IT IS HOT OR WHILE IT IS IN OPERATION. ALWAYS SHUT OFF THE HEATER AND ALLOW IT TO COOL BEFORE REFUELING.

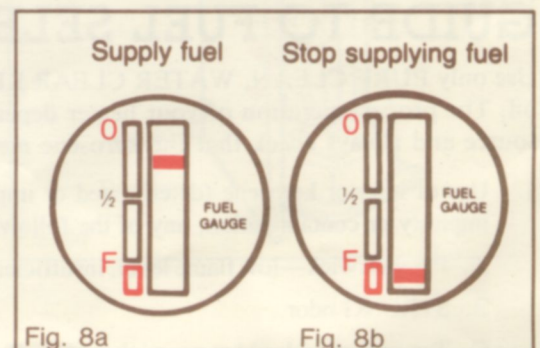
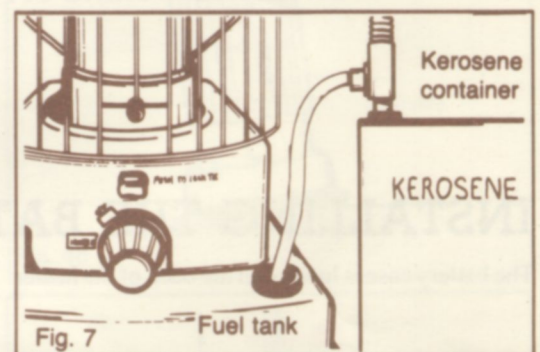
CAUTION: TO AVOID SPILLS AND TO PREVENT OBJECTIONABLE KEROSENE ODORS IN THE LIVING AREA, ALWAYS REFUEL THIS HEATER IN AN OUTSIDE AREA WITH THE AID OF A SIPHON PUMP.

- 1. Remove tank cap.
- 2. Locate the fuel gauge on the front of the fuel tank.
- 3. Using siphon pump (See Fig. 7), fill the tank with kerosene SLOWLY until the fuel gauge indicates "F" (FULL).

PROCEDURES FOR USING THE SIPHON PUMP:

- A. Insert the straight tube in the kerosene container.
- B. Insert the flexible tube into the fill hole of the fuel tank.
- C. Tighten the valve cap on top of the grip.
- D. Pump fuel into the tank by repeatedly squeezing the grip.
- E. Stop pumping fuel when the fuel gauge indicator points to "F" (See Fig. 8b). Loosen the valve cap.
When fuel gauge indicates fuel level is low, the tank should be refilled (See Fig. 8a).

CAUTION: THE FUEL TANK SHOULD NOT BE OVERFILLED. AIR SPACE IS NEEDED TO PREVENT SPILLS WHILE CARRYING THE HEATER AND TO ALLOW FOR FUEL EXPANSION, WHICH CAN OCCUR WHEN THE HEATER IS IN OPERATION.



4. Replace and tighten the tank cap.
5. Wipe up any spills.
6. When using the heater for the first time or after replacing the wick, wait 30 minutes before lighting. This is necessary to allow the wick to absorb sufficient kerosene to function properly.

OPERATING INSTRUCTIONS

1. INSURE THAT HEATER IS SITTING ON A LEVEL SURFACE:

The heater will not function unless the heater is sitting flat on a level surface.

NOTE: WHEN USING THIS HEATER FOR THE FIRST TIME, OR AFTER REPLACING THE WICK, WAIT AT LEAST 30 MINUTES AFTER ADDING FUEL BEFORE LIGHTING. THE WAIT IS NECESSARY TO ALLOW THE WICK TO BECOME THOROUGHLY SOAKED.

2. SET THE SHUT-OFF LEVER

Locate the shut-off lever on the left side of the front panel. Raise the lever to the set position (See Fig. 9).

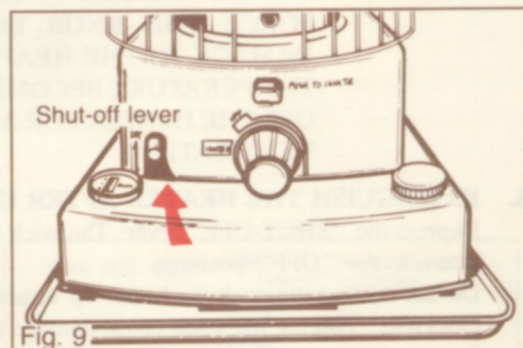


Fig. 9

3. RAISE THE WICK:

Turn the wick control knob clockwise until it stops. The indicator should be in the IGNITE position (See Fig 10).

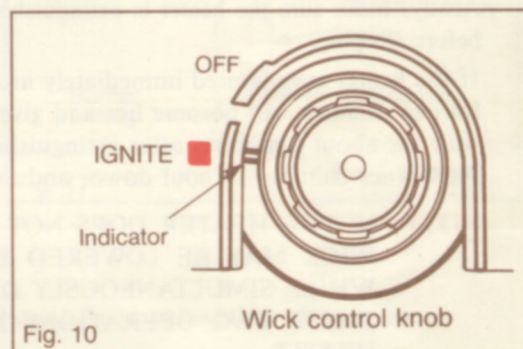


Fig. 10

4. LIGHT THE WICK WITH AUTO IGNITOR

Push the igniter button (See Fig 11). Once the wick is lit, release the button. If the glow plug causes a small amount of white smoke, but the wick fails to ignite, release the button SLIGHTLY. If the wick still fails to ignite, see the troubleshooting guide in the back of this manual.

NOTE: IN THE EVENT THAT THE AUTO IGNITER IS INOPERATIVE, THE HEATER CAN BE LIT MANUALLY, USING A LONG MATCH. TO LIGHT THE WICK MANUALLY, GO TO STEP 5. OTHERWISE, GO TO STEP 6.

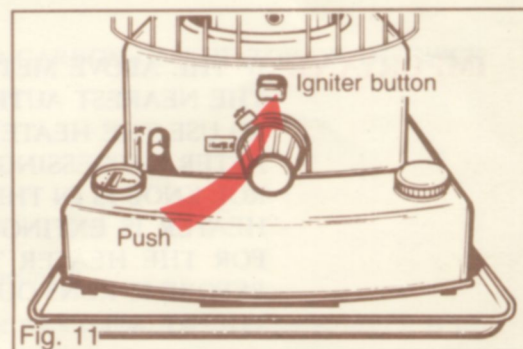


Fig. 11

5. LIGHT THE WICK MANUALLY:

Lift the burner chimney by the grip with one hand, and use the other hand to ignite the wick with a long match (See Fig12). Do not drop match into the heater.

If glow plug filament is bent or broken, or batteries are dead, replace with new ones and light the wick with AUTO IGNITOR.

6. BE SURE BURNER IS RESTING PROPERLY ON THE OUTER WICK GUIDE:

Grab the burner chimney by the grip and lightly shake it right and left a few times.

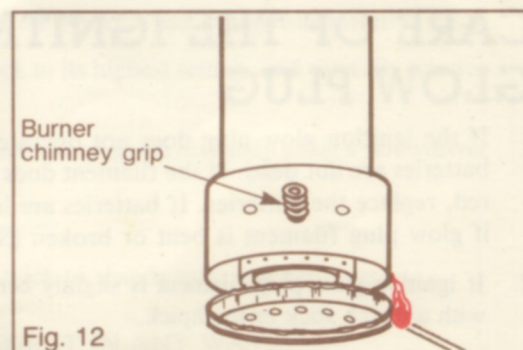


Fig. 12

7. ADJUST THE FLAME:

Grab the burner chimney by the grip and lightly shake it right and left a few times.

NOTE: DURING OPERATION THE BURNER CHIMNEY GRIP GETS HOT. ADJUST CAREFULLY.

Proper wick adjustment is determined by burner chimney appearance (See Fig. 14). Wick damage and indoor air pollution can occur if the wick is adjusted too low. Odor can occur if the wick is adjusted too high or too low. If room temperature becomes too hot, either turn off the heater for a while, or increase ventilation.

CAUTION: THE WICK CONTROL KNOB IS DESIGNED TO BE ADJUSTED ONLY WITHIN A LIMITED RANGE. ADJUST THE WICK CONTROL KNOB GENTLY AND SLOWLY WITHIN A LIMITED RANGE. DO NOT FORCE THE KNOB BEYOND THIS RANGE OR DAMAGE TO THE HEATER MAY RESULT. IF ROOM TEMPERATURE BECOMES TOO HOT, EITHER TURN OFF THE HEATER FOR A WHILE, OR INCREASE AIR VENTILATION.

8. EXTINGUISH THE HEATER AFTER USE:

Depress the "SHUT-OFF" lever. The wick control knob should automatically return to the "OFF" position.

Do not try to extinguish the heater by turning the wick control knob counter-clockwise. Forcing the knob could damage the heater.

Do not try to extinguish the heater by jarring it.

Always make sure the heater is extinguished before leaving it unattended or before sleeping.

If the heater is re-ignited immediately after it has been extinguished, the burner chimney will become hot and give off an odor. It is advisable to wait for about 5 minutes after extinguishing the heater in order to allow the burner chimney to cool down, and then to re-ignite it.

NOTE: IF THE HEATER DOES NOT EXTINGUISH AFTER DEPRESSING THE "SHUT-OFF" LEVER, THE WICK MAY BE LOWERED BY TURNING THE WICK CONTROL KNOB COUNTERCLOCKWISE WHILE SIMULTANEOUSLY DEPRESSING THE "SHUT-OFF" LEVER. THESE TWO OPERATIONS MUST BE DONE SIMULTANEOUSLY TO AVOID DAMAGE TO THE HEATER.

IMPORTANT: IF THE ABOVE METHOD MUST BE USED TO EXTINGUISH THE HEATER, TAKE IT TO THE NEAREST AUTHORIZED SERVICE CENTER FOR SERVICING BEFORE ATTEMPTING TO USE THE HEATER.

AFTER DEPRESSING THE "SHUT-OFF" LEVER, ALWAYS MAKE SURE THE WICK CONTROL KNOB IS IN THE "OFF" POSITION AND THE FLAME IS COMPLETELY OUT. IF THE HEATER IS EXTINGUISHED WITH THE FUEL TANK EMPTY, IT WILL TAKE LONGER FOR THE HEATER TO EXTINGUISH. THE FUEL TANK SHOULD ALWAYS BE FILLED BEFORE IT RUNS OUT OF FUEL UNLESS THE WICK IS BEING CLEANED (SEE "CARE OF THE WICK").

CARE OF THE IGNITION GLOW PLUG

1. If the ignition glow plug does not operate correctly, make sure that the batteries are not dead. If the filament does not glow red or is only slightly red, replace the batteries. If batteries are in good condition, check to see if glow plug filament is bent or broken (See Fig 15).
2. If ignition glow plug filament is slightly bent, it may be possible to repair it with a match stick or toothpick.
3. If the filament is badly deformed or broken, the ignition glow plug must be replaced.

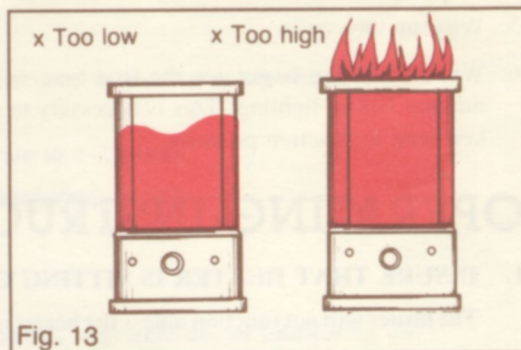


Fig. 13

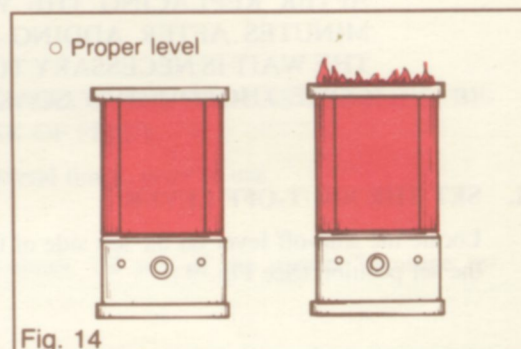


Fig. 14

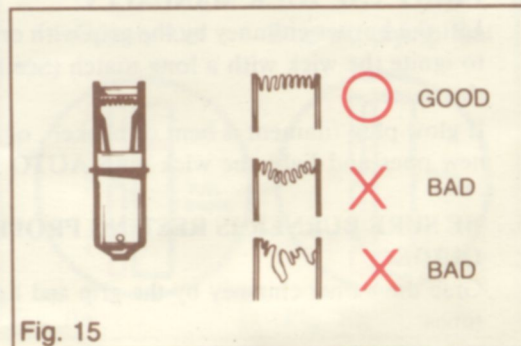
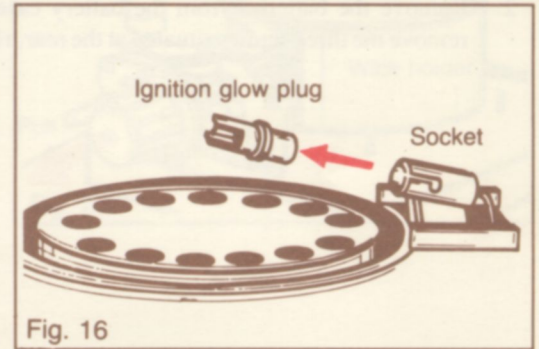


Fig. 15

IGNITION GLOW PLUG REPLACEMENT

1. Remove batteries and remove the cabinet by following steps 1 and 2 of the wick replacement procedure.
2. While holding the glow plug socket with one hand, use the other hand to depress the glow plug slightly and turn it until the glow plug frees itself from the socket. Remove the glow plug (See Fig 16).
3. Install new glow plug, reversing the procedure in Step 2.
4. Replace batteries. Depress the igniter button to insure that the glow plug works. If the glow plug does not work, make sure the batteries are not dead.
5. Replace the heater cabinet by reversing Steps 1-3 of the wick replacement procedure.

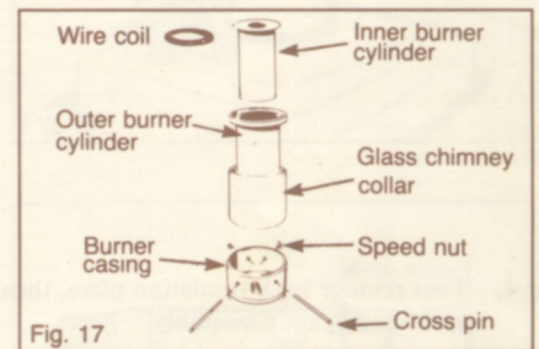


REPLACEMENT OF WIRE COIL AND GLASS CHIMNEY COLLAR

WARNING:

ALLOW BURNER CHIMNEY TO COOL BEFORE ATTEMPTING TO HANDLE IT WITH BARE HANDS.

1. Remove top plate assembly.
2. Lift out burner chimney.
3. Remove speed nuts from fixing cross pins.
4. Pull out cross pins.
5. Replace glass chimney collar and/or wire coil as needed.
6. Reassemble making sure that inner and outer burner cylinders are correctly positioned (See Fig 17).



CARE OF THE WICK

The wick used in this heater is made of heat resistant fiberglass, which does not burn, and should last for a long time with proper care.

Taking care of the wick will insure your getting the maximum pleasure and efficiency from your heater, and will help you to avoid the expense of replacing the wick.

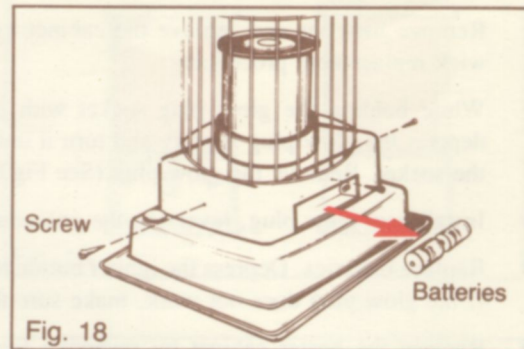
BURN THE WICK OFF TO REMOVE ANY ACCUMULATION OF TAR AND CARBON ON THE TOP OF THE WICK ONCE A WEEK OR WHENEVER:

- The wick becomes difficult to raise or lower.
 - Top of wick is stiff with carbon and flame burns too low.
 - Heater is difficult to ignite.
 - Preparing to store the heater.
1. Remove kerosene from tank using siphon pump and operate heater without refueling it.
 2. As the wire coil starts to become dark (caused by the wick going out), turn the wick control knob clockwise until it stops, to raise the wick as high as possible.
 3. Allow the heater to continue burning until it goes out completely and any flame on the wick has extinguished itself.
 4. After the heater has cooled completely, remove the burner chimney, raise the wick to its highest setting, and carefully remove loosened tar and carbon from the wick with a brush or cloth.
 5. Carefully remove any accumulated carbon deposits from the wick guide top and outer wick guide assembly using a screwdriver or similar tool. Take care not to damage the wick or burner chimney assembly.
 6. Depress the "SHUT-OFF" lever to lower the wick, and replace the burner chimney.
 7. After filling the fuel tank, wait at least 30 minutes before lighting to allow the wick to absorb sufficient kerosene.

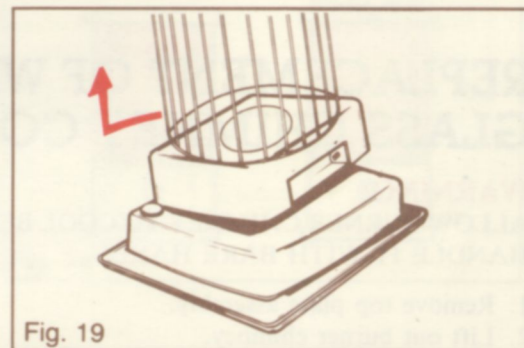
IMPORTANT: DO NOT CUT THE TOP OF THE WICK OR DAMAGE IT IN ANY WAY.

WICK REPLACEMENT FOR MODEL TR5000

1. Remove the top plate assembly and lift out the burner chimney.
2. Remove the batteries from the battery case. Using a coin or a screwdriver, remove the three screws situated at the rear, right, and left side (See Fig 18).



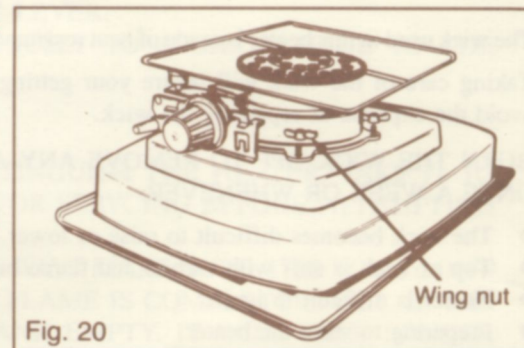
3. Tilt the cabinet forward and at the same time lift it straight up (See Fig 19).



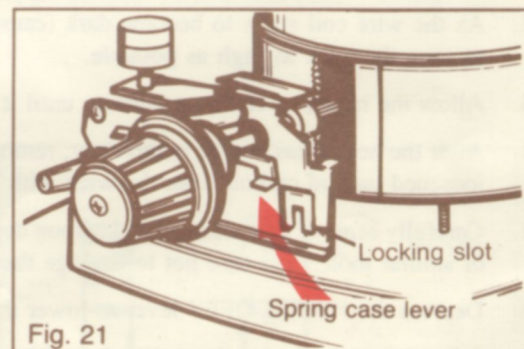
4. First remove back insulation plate, then carefully slide front insulation plate past ignitor assembly.
5. Remove the four wing nuts that secure the outer wick guide. If wing nuts are too tight to loosen by hand, use small pliers (See Fig. 20). Detach the outer wick guide.

CAUTION:

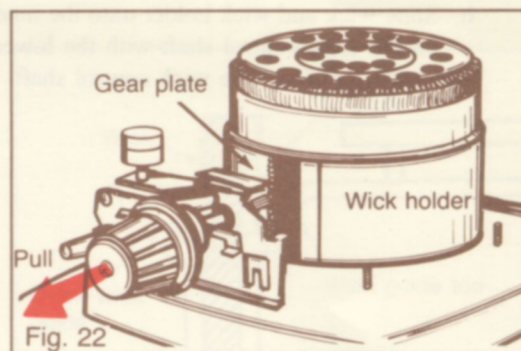
EXERCISE CARE NOT TO BREAK LEAD WIRES THAT CONNECT THE IGNITION DEVICE TO THE BATTERY CASE.



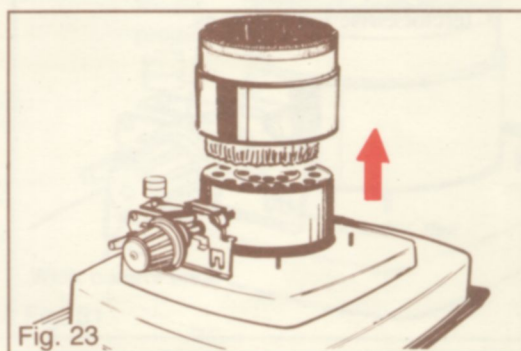
6. Lift spring case lever upward to release it from locking slot (See Fig. 21).



7. Pull wick control knob out to disengage the wick control shaft from the wick holder (See Fig. 22).



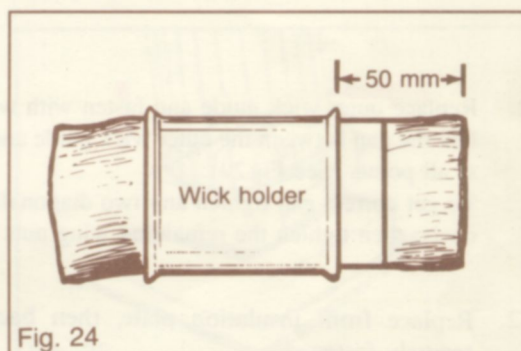
8. Remove the wick and wick holder (See Fig 23).
Remove the used wick from the wick holder.



NOTE: USE ONLY A GENUINE ALADDIN REPLACEMENT WICK. SEE PAGE 1 FOR SPECIFICATIONS AND PART NUMBER.

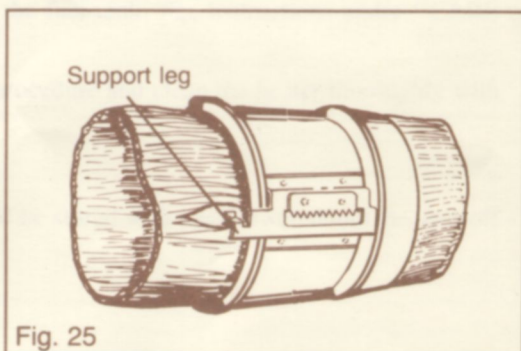
IMPORTANT: THE LINE OF THE TAPE THAT ENCIRCLES THE WICK MUST BE FLUSH WITH THE UPPER EDGE OF THE WICK HOLDER. FOR THE HEATER TO FUNCTION PROPERLY, THE WICK MUST BE INSTALLED AS EVENLY AS POSSIBLE (SEE FIG. 24). MAKE CERTAIN THE WICK IS NOT INSTALLED UPSIDE DOWN. (FIBER-GLASS PORTION SHOULD BE UP.) FORCE THE TEETH OF THE WICK HOLDER INTO THE WICK AND THE TAPE SURROUNDING THE WICK.

NOTE: SOME REPLACEMENT WICKS HAVE MORE THAN ONE LINE ON THE TAPE. MAKE SURE THE TOP OF THE WICK HOLDER IS ALIGNED WITH THE PROPER LINE FOR THE TR5000.

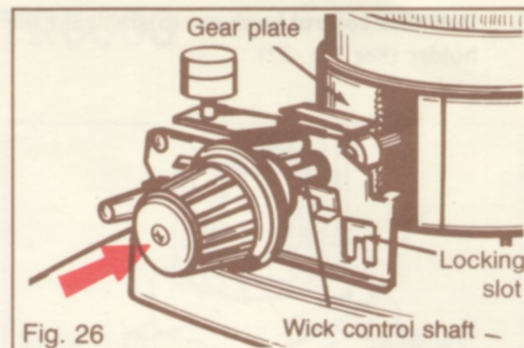


9. INSTALLATION OF NEW WICK

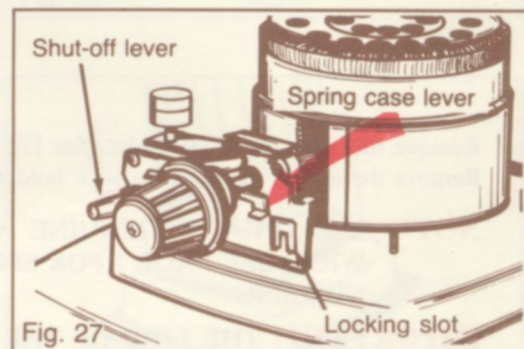
- a. Make sure the support leg on the wick holder penetrates the wick skirt (See Fig. 25).



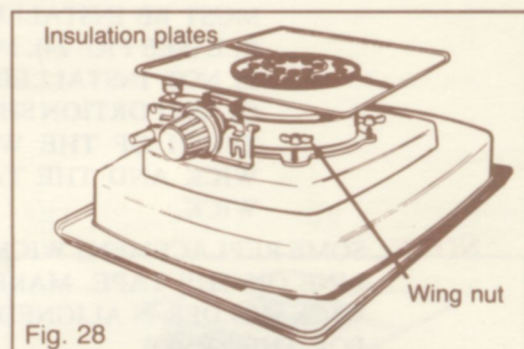
- b. Slide wick and wick holder onto the inner wick cylinder. Engage the gear on the wick control shaft with the lower part of the gear plate (See Fig. 26). Do not force the wick control shaft.



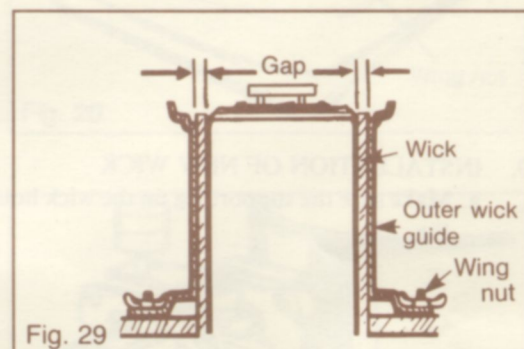
10. Push down on the spring case lever to insert it into the locking slot (See Fig. 27). While depressing the SHUT-OFF lever, turn the wick control knob counterclockwise until it stops.



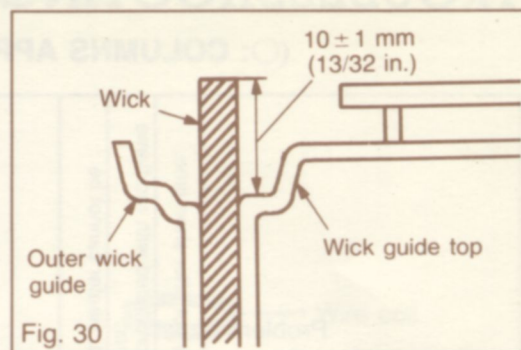
11. Replace outer wick guide and fasten with wing nuts (See Fig 28). Take care that the gap between the outer wick guide and the inner wick cylinder is equal at all points (See Fig 29). To get correct gap tighten any two diagonally opposite wing nuts simultaneously; then tighten the remaining wing nuts in the same manner.



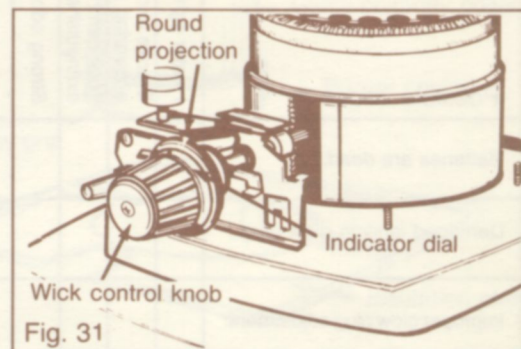
12. Replace front insulation plate, then back plate. Make sure tabs are securely fastened.



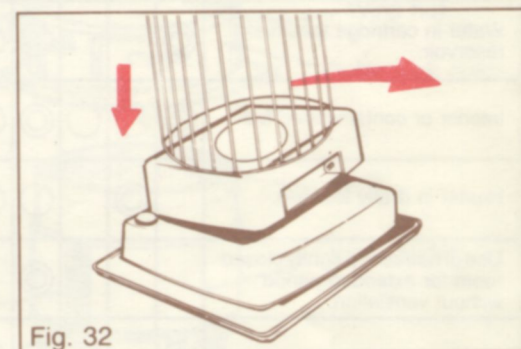
13. Raise the wick several times and lower it using the shut-off lever. If the wick does not operate correctly, repeat steps 5 through 10. The wick height between wick top and lower flange of wick guide top should be 10mm (13/32 in.). If it is over 11 mm (7/16 in.), reinstall it (See Fig 30).



14. The small round projection on the indicator dial (located directly behind the wick control knob) should be at the top (See Fig 31). If necessary adjust dial to that setting. Failure to do so will not permit the proper adjustment and operation of the wick within the normal range. To adjust the dial hold the wick control knob firmly with one hand and with the other hand push in on the dial and rotate it to its proper position.



15. Replace the cabinet, tilting it to the front to allow the front panel to clear the wick control knob, shut-off lever and ignite (See Fig 32).
16. Replace the three cabinet screws.
17. After making sure the wick is lowered by depressing the SHUT-OFF lever replace the burner chimney and batteries.
18. Wait at least thirty (30) minutes before lighting the heater to allow the wick to absorb sufficient kerosene.



STORAGE OF HEATER

USE THE FOLLOWING PROCEDURES WHENEVER YOU ARE GOING TO STORE THE HEATER FOR AN EXTENDED TIME, SUCH AS DURING OUT OF SEASON.

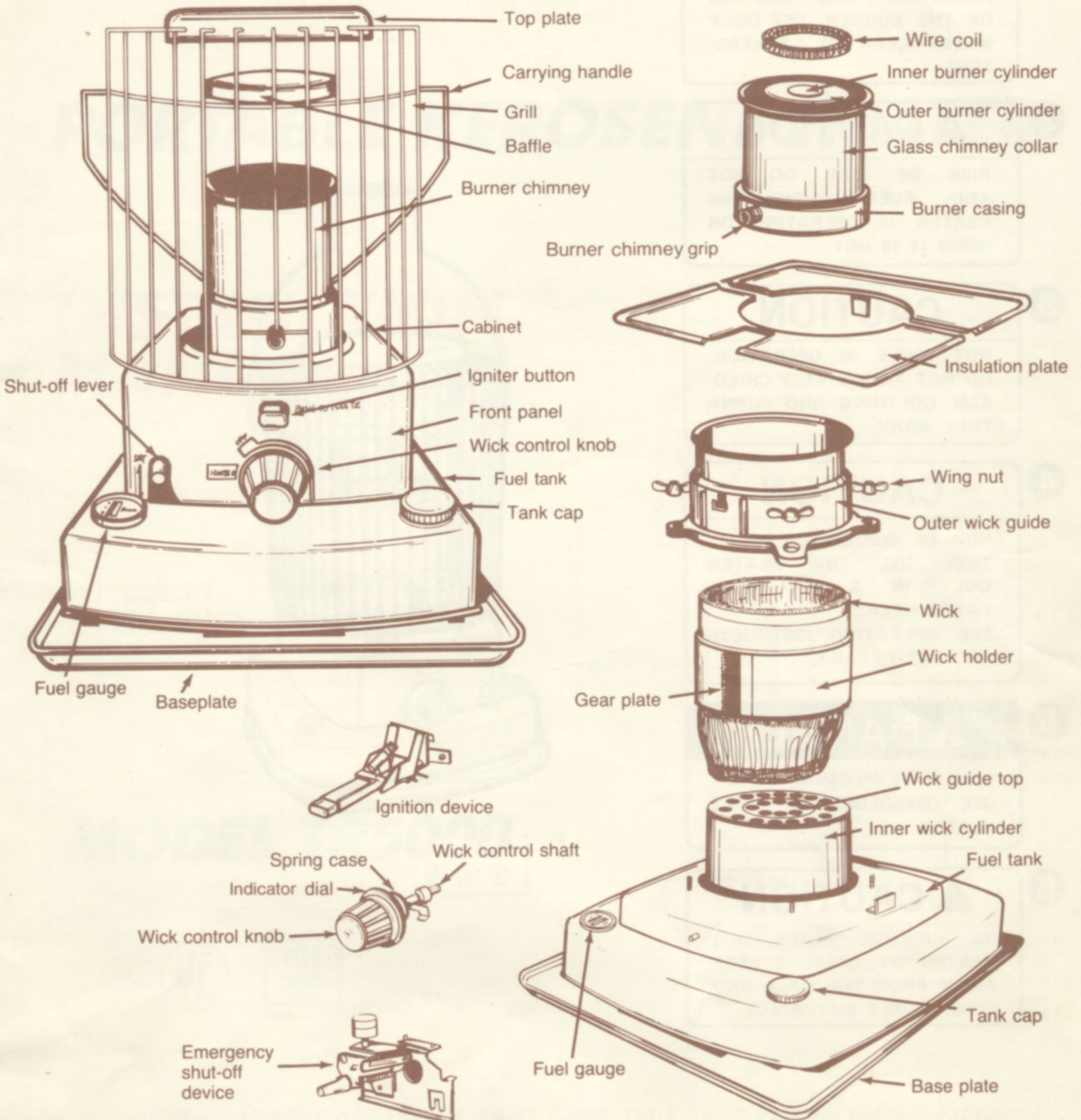
1. Follow wick cleaning procedure and remove as much fuel as possible from the fuel tank. See instructions under "CARE OF THE WICK".
2. Remove cabinet from heater by following steps 1-3 of the wick replacement procedure and clean the heater thoroughly with a soft cloth.
3. After cleaning, reassemble heater and remove batteries from battery case.
4. Wrap heater in polyethylene bag and store in the original carton. Heater should be stored with wick lowered and the shut-off lever in the "OFF" position.
5. SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE.

TROUBLESHOOTING GUIDE

(○: COLUMNS APPLICABLE ◎: COLUMNS HAVE AN IMPORTANT EFFECT)

Problem	Heater lights but goes out after short time.	Smoke and soot are produced with red flame appearing above burner.	Wick can't be lowered. Heater cannot be extinguished.	Strong odor.	Burner chimney does not have uniform red color.	Wick is not lowered by shut-off button.	Burner chimney does not become red at all.	Difficult to raise and lower wick.	Heater slow to warm up.	Can't ignite or hard to ignite heater.	Solution
Batteries are dead.										◎	Replace both batteries with new ones.
Damaged ignition glow plug.										◎	Replace the ignition glow plug.
Improper glow plug adjustment.										◎	Adjust glow plug. See Manual.
lack or shortage of kerosene in cartridge tank.	◎			○	○		○		○	○	Refuel heater.
Water in cartridge tank/fuel reservoir.	◎			○	○	◎	◎	◎	○	○	Completely empty cartridge tank/fuel reservoir. Replace wick.
Inferior or contaminated fuel.	◎	○	○	◎	○	◎	◎	◎	◎	◎	Change the bad kerosene in cartridge tank and fuel reservoir with pure kerosene and replace wick.
Heater in drafty location.		◎		○	○						Move heater to location where there are no drafts.
Use of heater in a tightly closed room for extended period without ventilation.				◎							Ventilate the area adequately.
Wick needs cleaning.	◎		◎	○	○	◎	○	◎	◎	○	Follow wick cleaning procedure in instruction manual.
Wick raised too high or installed too high in wick holder.		◎		○							Adjust wick down. If necessary reinstall wick at a lower position in wick holder.
The upper edge of wick is uneven.		○		○	◎	○					Refit wick correctly to the wick holder per wick replacement procedure in manual.
Tip of wick is stiff and black with carbon buildup.	○		○	○	○	◎	◎	◎	◎	◎	Follow wick cleaning procedure in instruction manual.
Wick has not absorbed enough kerosene.	○			○	○		○		○	◎	Wait at least 30 minutes after refueling before lighting heater.
Outer wick guide is pinching wick on one side.			○		◎	◎		◎			Reinstall outer wick guide so that space between outer wick guide and inner wick cylinder is uniform at all points.
Wick raising and lowering mechanism is defective.			◎			◎		◎			Repair/replace mechanism.
The bottom of burner chimney is not correctly seated.	◎		◎	○							Move burner chimney grip right and left to make sure burner chimney is correctly seated. Check for and remove tar build-up on outer wick guide below burner chimney.

PARTS LIST FOR TR5000



WARNING MARKINGS

1 **⚠ CAUTION**

IMPROPER FUEL MAY CAUSE POLLUTION AND SOOTING OF THE BURNER. USE ONLY WATER-CLEAR NO. 1-K KEROSENE.

2 **⚠ CAUTION**

RISK OF FIRE. DO NOT ADD FUEL WHEN THE HEATER IS OPERATING OR WHEN IT IS HOT.

3 **CAUTION**

HOT WHILE IN OPERATION. DO NOT TOUCH. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.

4 **CAUTION**

RISK OF INDOOR AIR POLLUTION. USE THIS HEATER ONLY IN A WELL-VENTILATED AREA. SEE OPERATING INSTRUCTIONS FOR DETAILS.

5 **⚠ DANGER**

RISK OF EXPLOSION. NEVER USE GASOLINE IN THIS HEATER.

6 **⚠ CAUTION**

BE SURE TO PLACE THIS HEATER AT LEAST 3 FEET AWAY FROM THE WALL AND COMBUSTIBLE MATERIALS.

