

# Sunbeam

**READ INSTRUCTIONS CAREFULLY  
BEFORE OPERATING UNIT.**

## OHR G23H

Miles Stair's  
**Wick Shop**  
Quality Kerosene Items since 1999



FBR 48337



# SUNBEAM KEROSENE HEATER OPERATING INSTRUCTIONS



# FEATURES

## Designed for safety

This heater has been designed with numerous safe-guards to prevent irregular or incomplete combustion, kerosene leakage and other hazards.

## Newly designed "double safety" tank

The tank will stay tight even if the heater should be overturned. Kerosene cannot leak out. Simply turn the heater upright again.

## Special glass wool wick

This glass wool wick permits easy ignition, clean, smokeless combustion, and quick heating. The wick burns down much slower than conventional cotton wicks, thus reducing maintenance and increasing convenience and economy.

## Two-stage afterburner device

The original design of the burner part and the use of the special glass wool wick guarantee complete combustion.

## Automatic, Battery-operated electric ignition — No matches needed!

Turn the wick control knob all the way toward HIGH, then pull the ignition knob. The heater will be ignited after about 2 — 5 seconds.

# SPECIFICATIONS

Dimensions .....	453 mm (17-13/16") high x 414 mm (16-5/16") wide x 320 mm (12-5/8") deep
Weight .....	7.6 kg (16.8 lbs)
Tank Capacity .....	3.0 liter (0.66 gallon)
Fuel Consumption .....	0.17 liter/h (0.0374 gallon/h)
Heat Generation .....	1,760 watts (6,000 B.T.U/h)
Continuous Heating Time .....	14 hours
Wick .....	Inner diameter 65 mm (2-9/16") Thickness 2.5 mm (7/64") Suction 120 % Suction speed 2 min. 40 sec.
Ignition System .....	Ignition Heater: 2.5 V, B Type Batteries: 2 Dry Cells Size D, 1.5 V

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# FUEL GUIDE

## CAUTION

To obtain satisfactory performance from your portable kerosene heater, it is essential to use pure kerosene Grade #1. Never use gasoline, naphtha or solvents such as alcohol, acetone and petroleum distillates. They are hazardous and may cause a fire or explosion.

## HOW TO SELECT AND STORE KEROSENE

Select and use only clear kerosene Grade #1. Do not use kerosene with visible contamination. Yellow or colored kerosene will smoke, smell and burn inefficiently.

Store kerosene properly.

- Store in a clean, tightly sealed, metal container.
- Do not store under high temperatures or in direct sunlight.
- Do not store for prolonged periods (More than one season).

## DETERIORATED AND IMPURE KEROSENE

Use of inferior, deteriorated or impure, kerosene will cause tar deposits on the wick within 1 to 30 days. As a result, the flame will not be proper. An unpleasant odor will be produced reducing heat output.

### DETERIORATED KEROSENE

- Kerosene which has been stored in a polyethylene container for several months will deteriorate. Even if stored in another type container, the kerosene may deteriorate. It is best to use fresh kerosene only.
- Kerosene which has been subjected to direct sunlight for an extended period, that is, stored outdoors in a transparent container.
- Kerosene which has been stored in a container without a lid.
- Kerosene which has been stored in hot areas for an extended period of time.

### IMPURITIES

- Kerosene which includes other oils such as machine or crude oil even in a very small amount.
- Kerosene with even any water or dirt content.
- Containers which have been used to store other fuels or use of pumps which have been used for other fuels will contaminate kerosene.

Always clean the interior of the old containers by rinsing with clean pure kerosene several times.

## CORRECTIVE ACTION IF DETERIORATED OR IMPURE KEROSENE IS USED

### Replace Kerosene

- Completely drain old kerosene from fuel tank and pump from reservoir with clean kerosene 2 or 3 times. If any of the old kerosene is left in the tank, trouble may reoccur.

### Clean the Wick

If the wick still does not function properly, replace the wick.

## FUEL QUALITY TEST

With proper selection and storage of pure kerosene, your Portable Heater will give you years of comfortable heating and trouble-free operation.

Check wick after using one tankful of fuel. If wick is soft and shows no tar deposits, fuel is satisfactory. This procedure is recommended for each time new fuel is purchased.



# CAUTION

THIS APPLIANCE CONSUMES AIR. TO ENSURE ITS SAFE AND PROPER OPERATION AND AVOID HEALTH HAZARDS, PROVIDE A FRESH AIR OPENING OF AT LEAST 4,000 mm<sup>2</sup>.

Increase fresh air openings as marked for each additional appliance.

Always fill outdoors away from open flame.

Do not fill when burner is in operation.

Do not use naphtha or gasoline.

Do not place clothing or other combustible articles on top of the heater.

Do not place cooking utensils on top of the heater.

Do not operate the heater adjacent to any flammable materials.

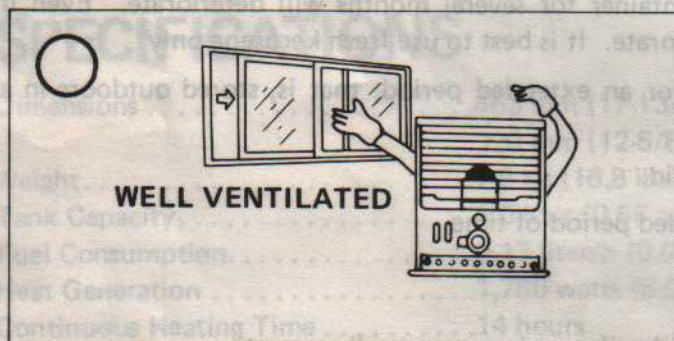
**WARNING:** DO NOT OPERATE THIS HEATER IF GLASS CHIMNEY IS DAMAGED OR MISSING.

BE CAREFUL NOT TO SPLASH WATER ONTO THE GLASS CHIMNEY.

## SAFE OPERATION GUIDE

1. Always provide a source of fresh air. It may be a half-inch door opening to an adjoining room, or a window opened an inch.

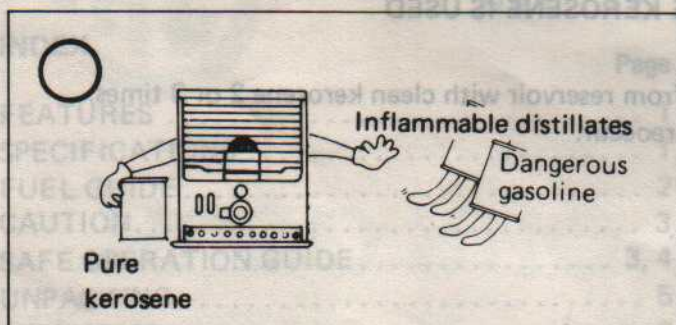
Kerosene heaters use oxygen and therefore may cause asphyxiation if used in small, closed areas such as bathrooms and tightly closed campers.



2. Use pure kerosene Grade #1 only.

Never use gasoline, naphtha or solvents such as alcohol, acetone and petroleum distillates. They are hazardous and may cause fire, explosion and serious injury.

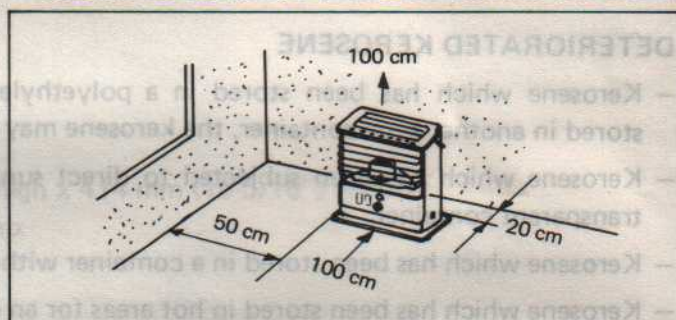
Refuel outdoors when heater is cool to the touch.



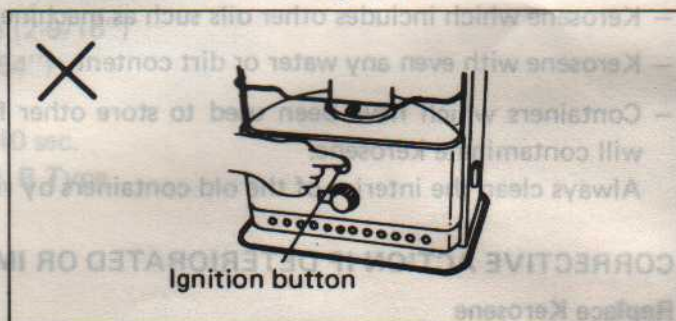
3. The minimum clearance between appliance and combustible materials are as follows:

UP: 100 cm (39-3/8") SIDES: 50 cm (19-11/16")

REAR: 20 cm (7-7/8") FRONT: 100 cm (39-3/8")



4. After the heater is lit, do not push the ignition button. This will damage the heater.

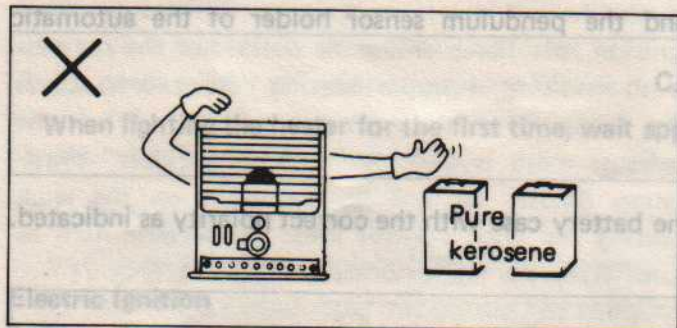


5. Always close the fuel tank lid after filling the fuel tank.

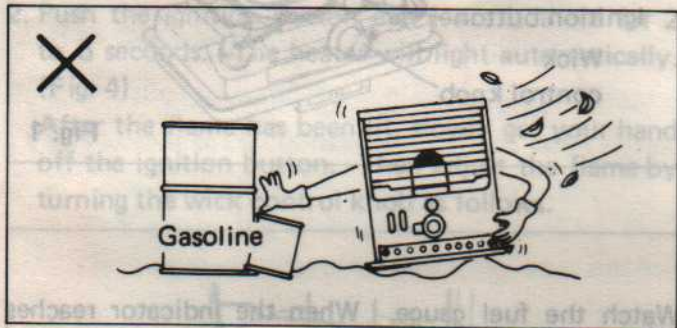




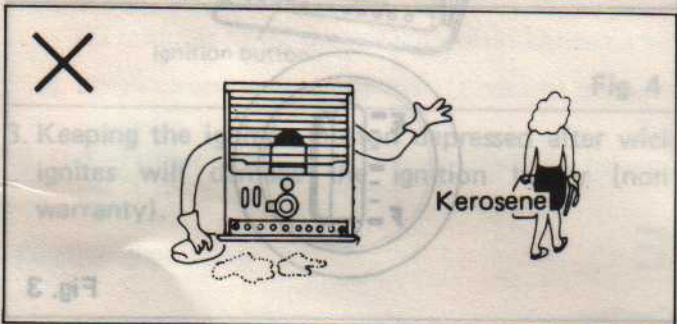
6. Always keep kerosene containers closed. Store containers away from heat sources and open flames.



7. Avoid placing the heater near drafts or easily combustible items. Place the heater on a solid level surface.



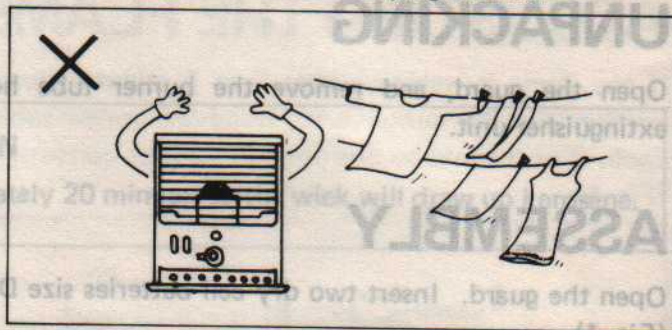
8. Keep the heater neat and clean. Take care to wipe off spilled kerosene, as it could ignite and cause damage.



9. The heater should not be used in entrance-ways and other places where people often pass by.



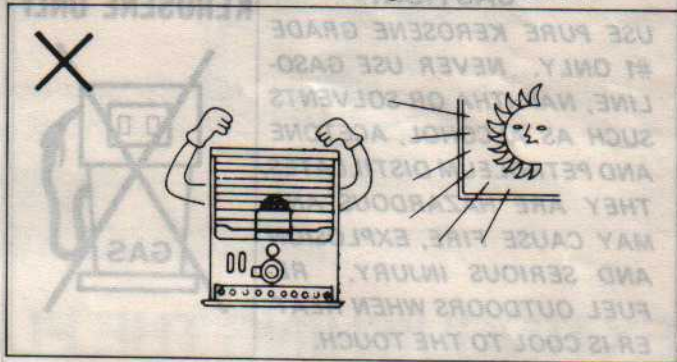
10. Do not use the heater for drying clothes.



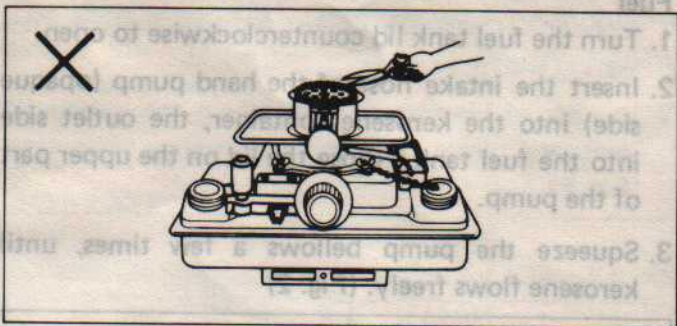
11. Hot while in operation. Do not touch, keep children, clothing and furniture away. Do not move or service while hot or burning.



12. Do not place the heater in direct sunlight or in a place with temperature higher than 86°F.



13. Do not clean the wick with knives or scissors. See page 8 for cleaning instructions.



14. Use only in accordance with local ordinances and codes.

### CAUTION

Sunbeam assumes no liability and does not guarantee the heater when it is used as described in explanations marked with an X.

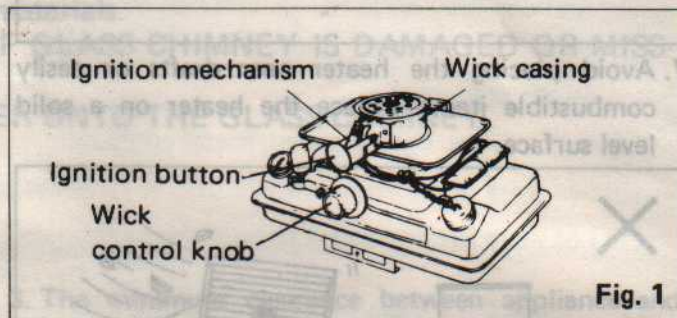


# UNPACKING

Open the guard, and remove the burner tube holder and the pendulum sensor holder of the automatic extinguisher unit.

# ASSEMBLY

Open the guard. Insert two dry cell batteries size D into the battery case with the correct polarity as indicated. (Fig. 1)



# FUELING

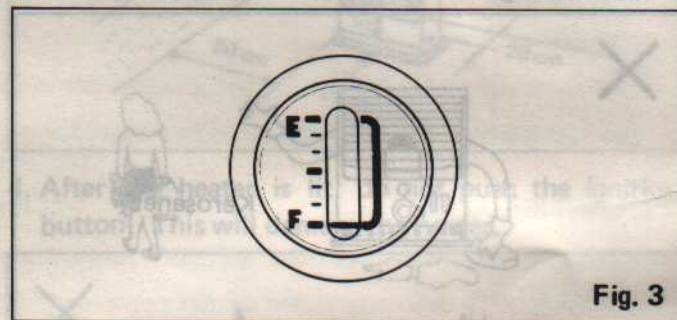
## CAUTION:

USE PURE KEROSENE GRADE #1 ONLY. NEVER USE GASOLINE, NAPHTHA OR SOLVENTS SUCH AS ALCOHOL, ACETONE AND PETROLEUM DISTILLATES. THEY ARE HAZARDOUS AND MAY CAUSE FIRE, EXPLOSION AND SERIOUS INJURY. REFUEL OUTDOORS WHEN HEATER IS COOL TO THE TOUCH.

## KEROSENE ONLY

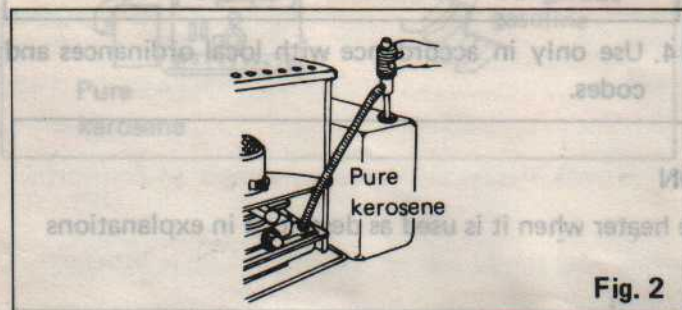


Watch the fuel gauge. When the indicator reaches the FULL mark, loosen the lid on the upper part of the pump by turning counterclockwise. Kerosene flow will stop. (Fig. 3)



## Fuel

1. Turn the fuel tank lid counterclockwise to open.
2. Insert the intake hose of the hand pump (opaque side) into the kerosene container, the outlet side into the fuel tank. Close the lid on the upper part of the pump.
3. Squeeze the pump bellows a few times, until kerosene flows freely. (Fig. 2)



4. Close the fuel tank lid. Wipe off any spilled kerosene.

Note: 1) Never fill the fuel tank above the FULL mark.  
2) The heater will smoke if the burner tube does not rest securely on the wick casing.



# LIGHTING

## CAUTION

When lighting the heater for the first time, wait approximately 20 minutes so the wick will draw up kerosene.

### Electric Ignition

1. Turn the wick control knob all the way clockwise, toward HIGH. Wick will protrude about 6 mm (1/4") – 8 mm (1/3") from wick casing.
2. Push the ignition button and leave it there for 2 to 5 seconds. The heater will light automatically. (Fig. 4)  
After the flame has been lit, slowly get your hand off the ignition button. Then adjust the flame by turning the wick control knob as follows.



Fig. 4

3. Keeping the ignition button depressed after wick ignites will damage the ignition heater (non-warranty).



Fig. 5



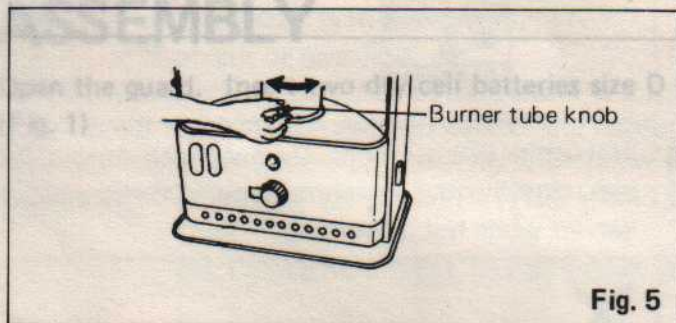
Fig. 6

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Quality Kerosene Items since 1999



# ADJUSTING THE FLAME

If the flame is wavering after 3 to 5 minutes from ignition, jog the burner tube, using the burner tube knob, 2 or 3 times to position burner tube correctly. (Fig. 5)



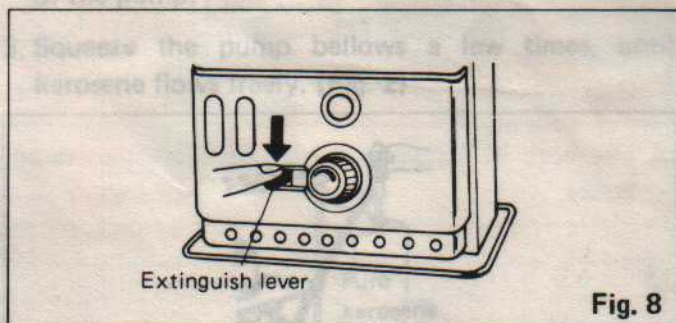
If this does not correct the problem, turn the wick control knob counterclockwise to obtain a normal flame.

Turning the wick control knob clockwise will increase the flame, while turning it counterclockwise will lower the flame. (Fig. 6)

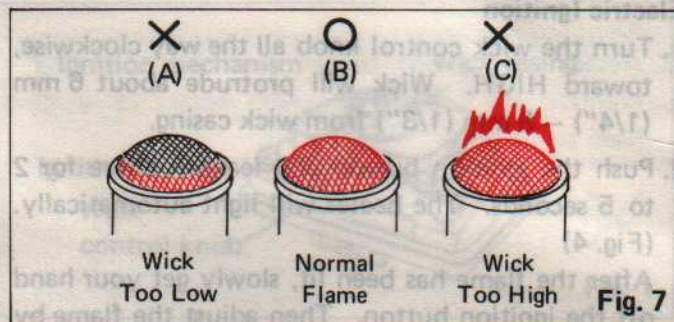


# EXTINGUISHING THE FLAME

1. Turn the wick control knob counterclockwise all the way. The flame will go out after a few seconds. Confirm the extinguished flame before leaving the room.
2. In case of emergency, push down the extinguish lever, and please confirm the complete extinction. (Fig. 8)



If the heater is left as it is for 30 minutes after ignition, the flame will grow outside of the radiator mesh resulting improper heating. Be sure to adjust the flame to obtain normal condition. When the radiator mesh is dark as "wick is too low" illustration below, tar will be deposited on the wick causing the wick control knob to become hard to turn. Keep the flame normal at all times. (Fig. 7)



## Caution

1. Turn the wick control knob counterclockwise if the wick does not go down nor extinguishes after you pushed the extinguish lever down.
2. Flame flares up when you push down on the extinguish lever. But this is not a trouble. You need not worry about it.



# MAINTENANCE

## Cleaning the Wick

The wick is a specially developed glass wool type. It will not burn without fuel like conventional cotton wicks. But it needs proper attention to get long life use.

### 1. Wick should be cleaned when:

- Third or fourth tankful of kerosene has been used.
- The wick control knob becomes hard to turn.
- The radiator mesh does not get red hot although the wick is turned up all the way.
- The wick is hard to ignite.
- Unpleasant odor is produced during use.

### 2. How to clean the wick.

- Use the heater till the fuel gauge is at E (Empty).
- Turn the wick control knob until it stops to raise the wick as high as possible.
- Leave it until the flame goes out naturally.

This cleans the wick of carbon deposits. Do not add fuel, lower the wick, or lift the burner tube during the cleaning cycle. Burning a wick dry does not harm the wick material.

- To avoid odor, clean-burning operation should be done in a well-ventilated or outdoor area.
- If you do not want to wait until the tank is empty, pump out the fuel with the supplied pump, then proceed as explained above.
- When the clean-burning operation is completed, fill the tank with pure kerosene and let it stand about 20 minutes to let the wick draw up kerosene before lighting the heater.
- When clean-burning operation does not improve performance of heater, the wick should be replaced.

### 3. Use of other than pure kerosene Grade #1 fuel will damage the wick (non-warranty).

## Replacing the Wick

### Caution

Do not cut, pull or soil the new wick.

Insufficient combustion may otherwise occur. Pulling the wick causes damage, resulting in poor combustion.

## How to replace the Wick

The glass wool wick possesses an almost infinite service life. If torn or ragged, it can be replaced as explained below.

(Spare wicks are available at the store where you purchased the heater or from the nearest Sunbeam Service Station.)

### 1. Open the guard. Remove the burner tube. (Fig. 9)

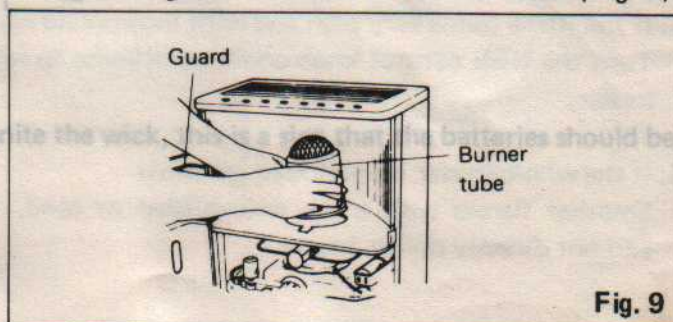
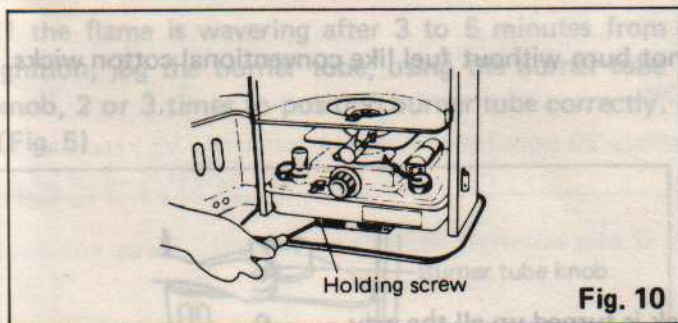


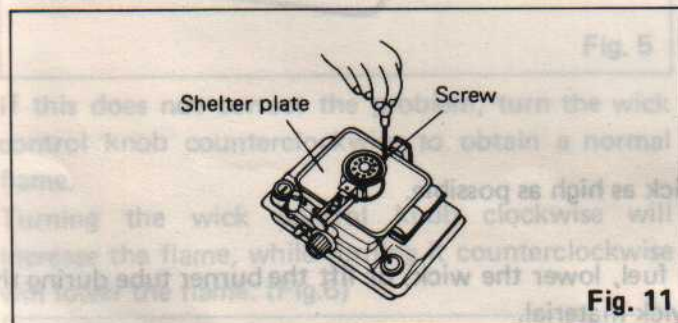
Fig. 9



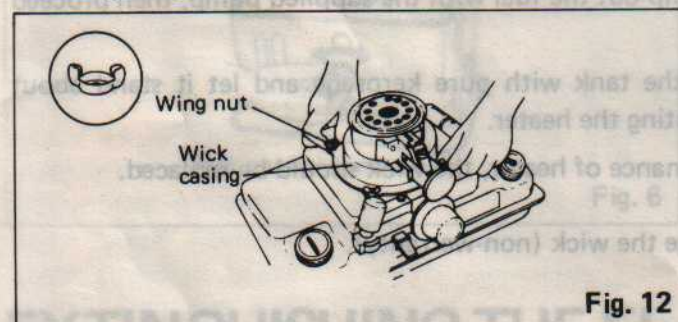
2. Loosen the two holding screws and take out the fuel tank from cabinet. (Fig. 10)



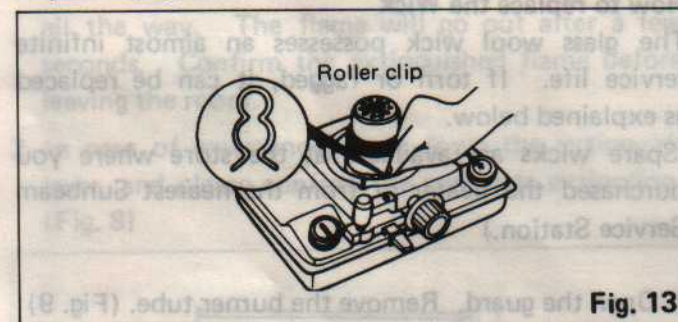
3. Loosen the screw and remove the shelter plate. (Fig. 11)



4. Loosen the four wing nuts, lift out the wick casing. (Fig. 12)



5. Take out the small clip that holds the roller in place. (Fig. 13)



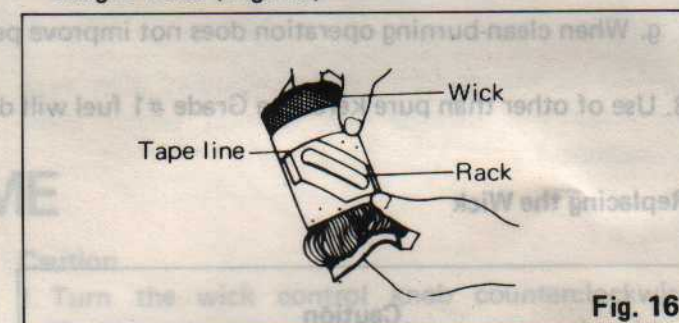
6. Pulling out and holding the wick control shaft, turn the wick holder counterclockwise and lift it free of the fuel tank. (Fig. 14)



7. Pull the old wick out of its holder. (Fig. 15)



8. Insert the new wick in the holder. Adjust it so that its horizontal tape line is even with the upper edge of the wick holder. Then push the wick from the inside so that it is flush against the wick holder and the hooks of the wick holder have firmly caught hold. (Fig. 16)

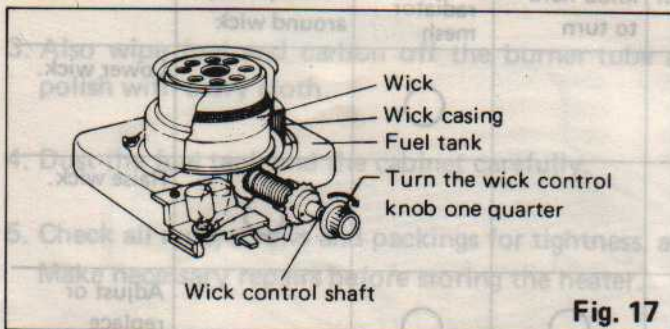


### CAUTION

Be sure that the wick edge is even and level. Wait approximately twenty minutes before lighting the heater for the first time to let the wick draw up sufficient fuel.



9. Insert the new wick into the fuel tank. As shown in the Fig. below, turn the wick control shaft clockwise one quarter of a turn to secure it to the upper end of the wick holder rack. (Fig. 17)  
Then replace the clip that holds the roller.

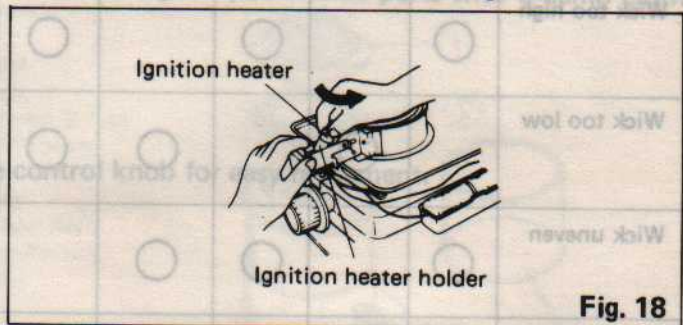


10. Insert the wick and the holder, taking care not to bend the wick edge. When attaching the wick casing, make sure that the wick is fully suspended into the fuel tank. Tighten the four wing nuts (of the wick casing) clockwise. Then reassemble the wick control knob, adjusting for smooth movement.

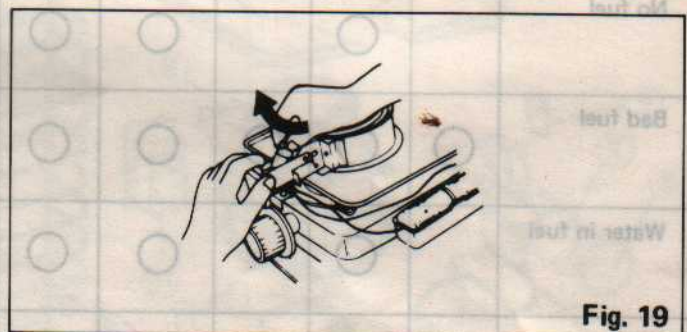
## Replacing the Ignition Heater

### How to replace the ignition heater

1. Open the guard. Remove the burner tube.
2. Loosen the two holding screws and take out the fuel tank from cabinet.
3. Remove the old ignition heater. (Fig. 18)

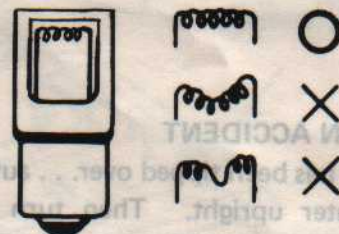


4. Insert the tip of the new ignition heater into the guide slot of the ignition heater holder and turn. (Fig. 19)



### CAUTION

Be careful not to bend the filament wire of the heater.



## Replacing the Batteries

When the heater glows, but its temperature is too low to ignite the wick, this is a sign that the batteries should be replaced.



# TROUBLE SHOOTING GUIDE

Trouble Possible Problem	Soot	Wick difficult to ignite	Flame does not go out	Radiator does not glow	Odor	Flame uneven	Wick control knob hard to turn	Flame ex- tends over radiator mesh	Flame does not move quickly around wick	Remedy
Wick too high	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>			<input type="radio"/>		Lower wick.
Wick too low		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Raise wick.
Wick uneven	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Adjust or replace wick.
Burner tube does not rest securely	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>		Reset burner tube.
No fuel		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>				<input type="radio"/>	Add fuel.
Bad fuel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Use better fuel.
Water in fuel		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	Drain fuel, replace wick.
Wick incorrectly attached	<input type="radio"/>		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		Disassemble burner, attach wick correctly.
Carbon deposits etc. on wick	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>	Clean wick (dry burning).

## IN CASE OF AN ACCIDENT

1. If the heater has been tipped over. . . automatic wick snuffer activates.

Set the heater upright. Then turn the wick control knob counterclockwise all the way. The double safety tank prevents fuel from leaking out.

2. If the flame burns very high and with incomplete combustion. . .

Turn the wick control knob counterclockwise to retract the wick. Safeguard easily inflammable items near the heater.

3. If the whole heater is enveloped in flames. . .

Smother flames with a fire extinguisher or sand. If not at hand, use blankets, throw water on the blankets and not directly on the heater.



# STORING THE HEATER

1. Pump out fuel in the fuel tank and close the fuel tank lid tightly.
2. Clean the wick by dry-burning as explained. (Page 8)
3. Also wipe fuel and carbon off the burner tube and the wick casing. Wipe metallic parts with a damp cloth, polish with a dry cloth.
4. Dust the fuel tank and the cabinet carefully.
5. Check all nuts, screws and packings for tightness, and the control knob for easy movement. Make necessary repairs before storing the heater.
6. Take out the batteries when storing the heater.
7. Put the plastic cover on the heater, then store it in its box. Select a dry, well ventilated place.

Note: Avoid tilting the heater or laying on its side.

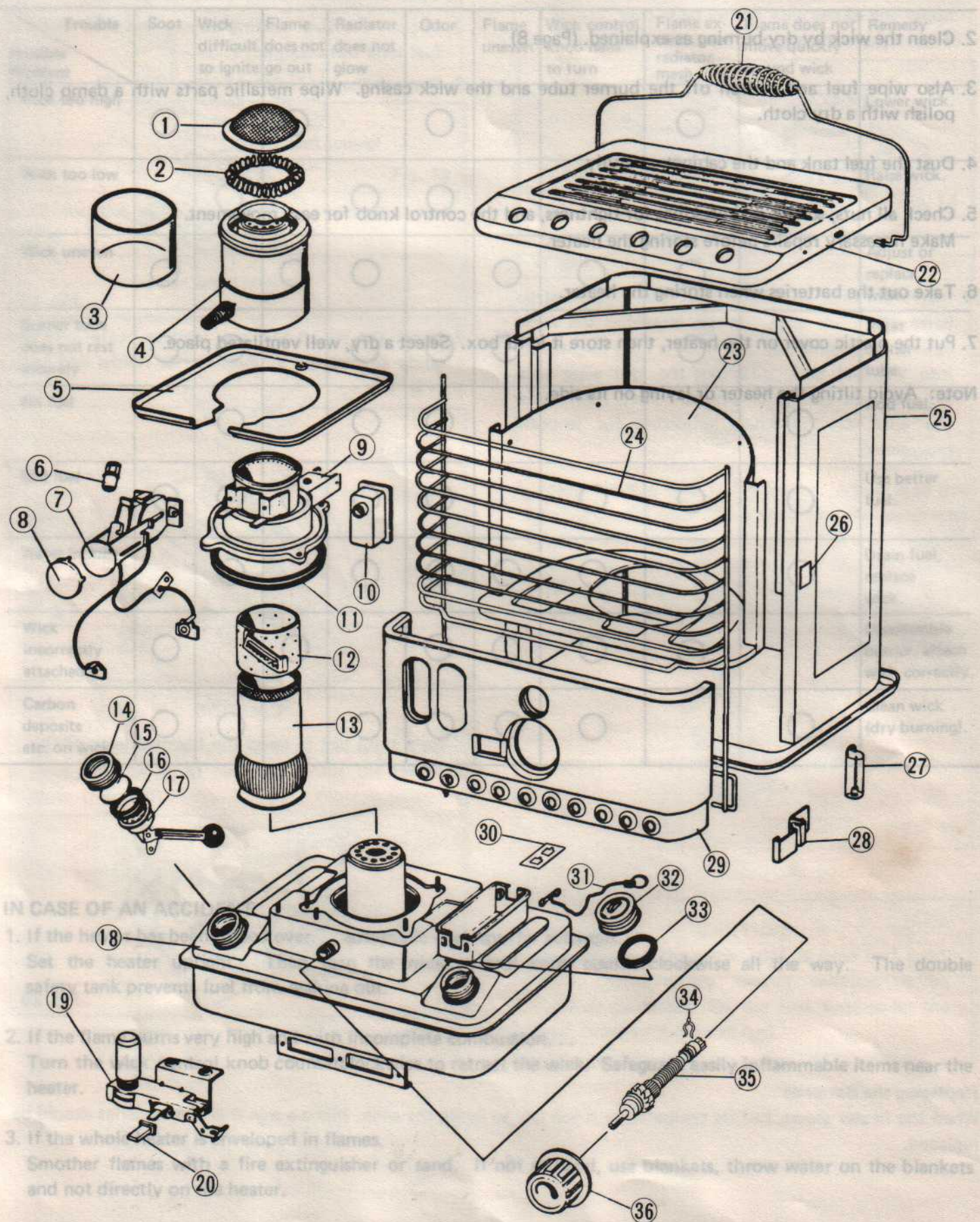
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Quality Kerosene Items since 1999

## WARRANTY

Upon receipt of the warranty register card packed with this heater, your Sunbeam Kerosene Heater is warranted for one year against defects in materials and workmanship, which will be repaired or parts replaced free of charge during this period. The warranty does not cover damage caused by misuse or negligent handling and does not apply to the wick, ignition heater, batteries, radiator mesh or radiator coil. This warranty is in lieu of any other warranty, either expressed or implied. If service is required, send the appliance prepaid to the nearest Sunbeam Appliance Service Company branch. A list enclosed. Please enclose a note explaining the nature of the difficulty.



# EXPLODED VIEW





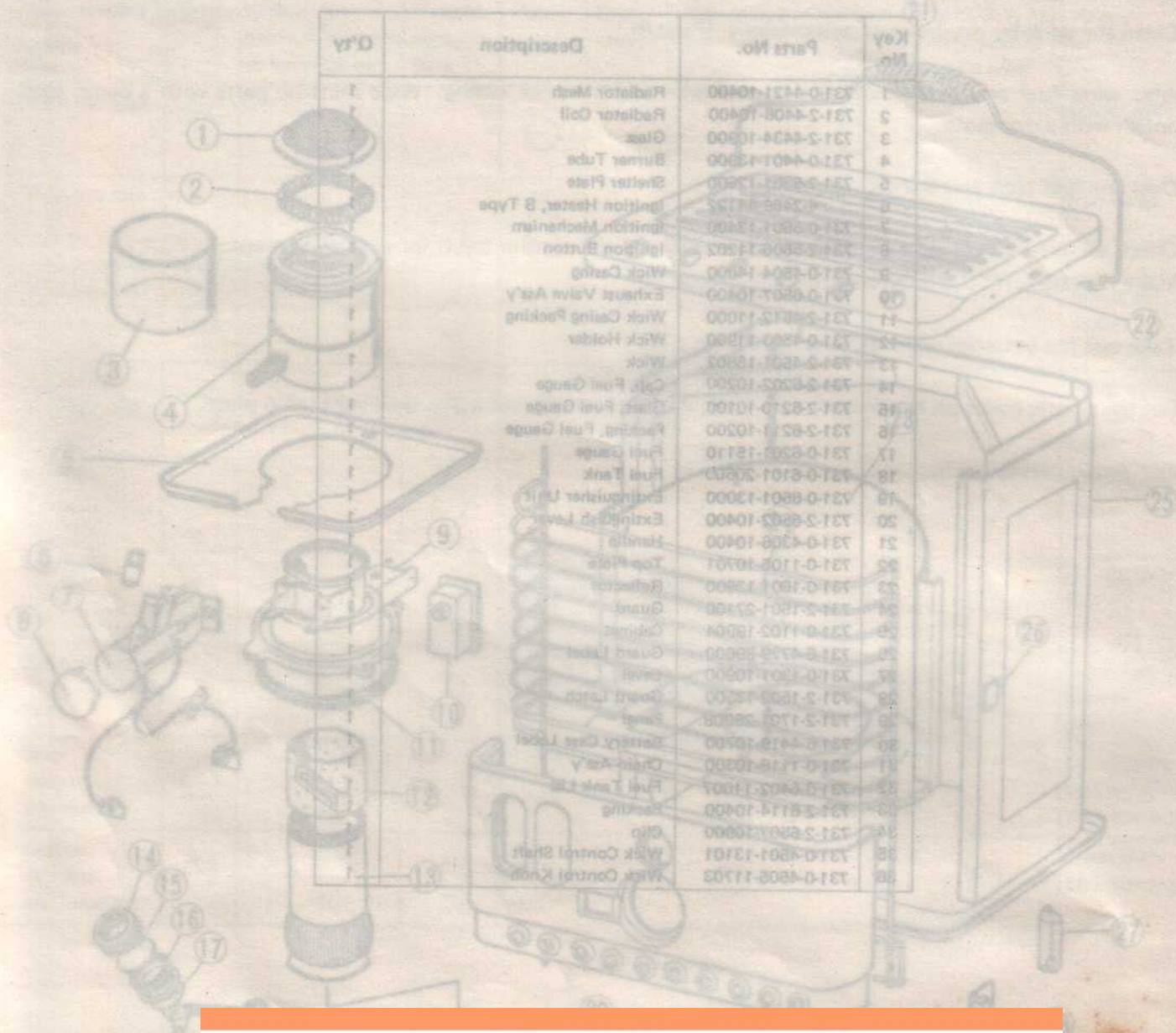
# PARTS LIST

Key No.	Parts No.	Description	Q'ty
1	731-0-4421-10400	Radiator Mesh	1
2	731-2-4408-10400	Radiator Coil	1
3	731-2-4434-10900	Glass	1
4	731-0-4401-13900	Burner Tube	1
5	731-2-6301-12600	Shelter Plate	1
6	4-2459-44122	Ignition Heater, B Type	1
7	731-0-5601-13400	Ignition Mechanism	1
8	731-2-5606-11202	Ignition Button	1
9	731-0-4504-14600	Wick Casing	1
10	731-0-6507-10400	Exhaust Valve Ass'y	1
11	731-2-4512-11000	Wick Casing Packing	1
12	731-0-4503-11900	Wick Holder	1
13	731-2-4501-15602	Wick	1
14	731-2-6202-10200	Cap, Fuel Gauge	1
15	731-2-6210-10100	Glass, Fuel Gauge	1
16	731-2-6211-10200	Packing, Fuel Gauge	1
17	731-0-6201-15110	Fuel Gauge	1
18	731-0-6101-20600	Fuel Tank	1
19	731-0-6501-13000	Extinguisher Unit	1
20	731-2-6502-10400	Extinguish Lever	1
21	731-0-4306-10400	Handle	1
22	731-0-1105-10701	Top Plate	1
23	731-0-1601-13600	Reflector	1
24	731-2-1501-27100	Guard	1
25	731-0-1102-19904	Cabinet	1
26	731-6-4729-89600	Guard Label	1
27	731-0-1301-10900	Level	1
28	731-2-1502-13500	Guard Latch	1
29	731-2-1701-25908	Panel	1
30	731-6-4419-10700	Battery Case Label	1
31	731-0-1116-10300	Chain Ass'y	1
32	731-0-6402-11007	Fuel Tank Lid	1
33	731-2-6114-10400	Packing	1
34	731-2-6507-10900	Clip	1
35	731-0-4501-13101	Wick Control Shaft	1
36	731-0-4505-11703	Wick Control Knob	1

## WARRANTY

Upon receipt of the warranty register card packed with this product, your Sunbeam kerosene Heater is warranted for one year against defects in materials and workmanship, which will be repaired or parts replaced free of charge during this period. The warranty does not cover damage caused by misuse or negligent handling, and does not apply to the wick, ignition heater, batteries, radiator mesh or radiator coil. This warranty is in lieu of any other warranty, either expressed or implied. If service is required, send the appliance prepaid to the nearest Sunbeam Appliance Service Company branch. See list enclosed. Please enclose a note explaining the nature of the difficulty.





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