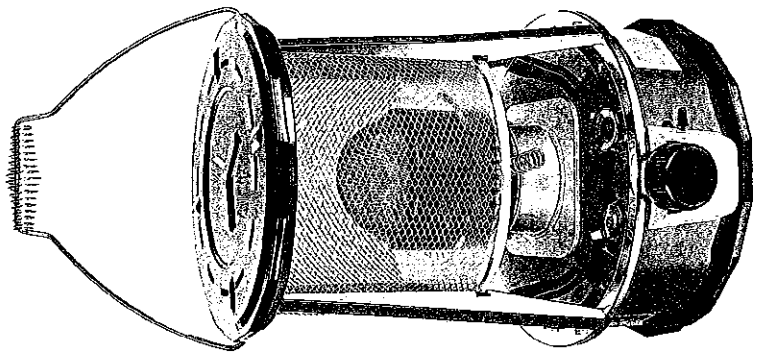


**OPERATING INSTRUCTIONS
KEROSENE SPACE HEATER**



Warnings

- "Use only paraffin. BS 2869; C1"



PARAFFIN

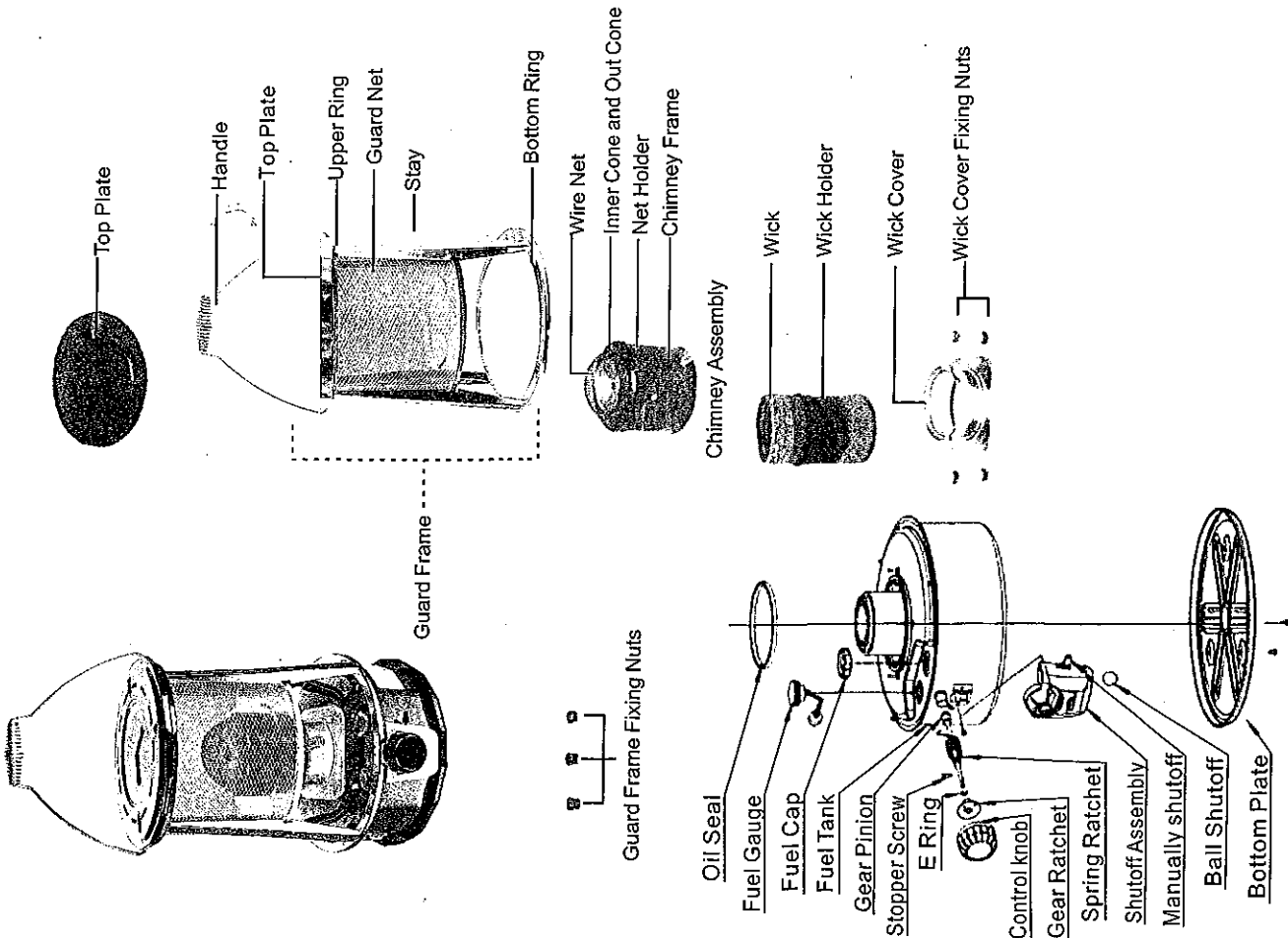
- Do not fill or carry when alight
 - Do not use in an unventilated place or where exposed to draughts.
 - When use the cooking appliance, do not use a space heater.
 - When se the heating appliance, do not use a cooker.
 - Do not place this appliance where it can be knocked over.
 - The heater should be used on a horizontal level.
 - The heater should not be subjected to drafts.
 - The heater should not be used near flammables.
 - The room in which the heater is used should have sufficient ventilation.
- Do not use in a narrow space.
- Users are requested to pay special attention to children while the heater is being used.
 - Do not put water or other fuels such as petroleum, methylated spirit into fuel container.
- In case water or other fuels are inside fuel container, make fuel container empty and then clean by kerosene (paraffin).
- Do not use the appliance in inadequately ventilation areas which could not prevent satisfactory dispersal of the products of combustion.
 - Adequate ventilation: open the window or door minimum 30cm every hour for 10 minutes to replace room air by fresh air.

POINTS TO REMEMBER BEFORE USING HEATER

1. Take out cardboards placed inside.
2. Check condition of nuts and check if any malfunction.

Description	Wick-up & down glide.
Kind	cone, reflection.
Type	0.25ℓ/hr.
Fuel consumption	9000BTU/Hr
Heat output
Combustion hour	18 hours.
Size	Height: 47 cm.
.....	Width: 32.5cm.
.....	Length: 32.5cm.
Weight	5.4kg
Tank capacity	6.0L
Heating space	15m ²
Fuel	Kerosene.
Wick	Thickness: 2.6 ± 0.3 mm
.....	Diameter: ø95 ± 2mm
.....	Length: 180 ± 5 mm
Absorbing power	120%

PARTS LIST

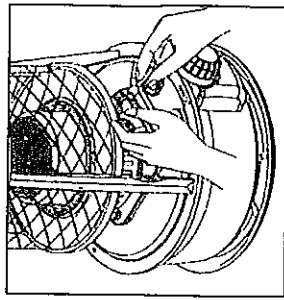


TO FEED OIL

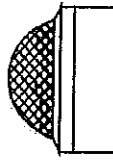
1. Remove the filter cap.
2. Fill fuel until the fuel indicator points to <<P.>
3. Do not fail to stop up the filler hole with the cap.
4. Before you feed oil, extinguish the heater.

TO IGNITE

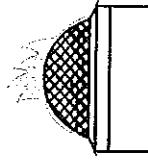
1. When you are going to use the heater for the first time, you will feed oil and wait about ten minutes until the wick is soaked with fuel.
2. To ignite, you will:—
 - a. Lift the wick by turning the wick - adjust - handle knob clockwise.
 - b. Tilt the chimney by pinching the chimney knob.
 - c. Light the wick with a match at its two or three spots.
 - d. Turn the chimney horizontally using the chimney knob, thereby setting the chimney properly on the burner.



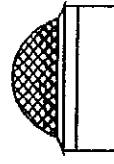
TO ADJUST COMBUSTION



If the wire net on top of the chimney is brightly red-heated, the combustion is all right.



If flames flare up over the wire net, it is because the wick is too high.



If the wire net is dark, it is because the wick is too low or fuel is short.

TO EXTINGUISH

1. Turn the wick-adjust-handle knob counter-clockwise slowly until it stops. The wick will be lowered to the bottom and the fire will be out in 3 - 5 minutes.
2. Make sure the fire has been extinguished.
3. Never fail to extinguish the fire before you move the heater to another place, before you evacuate the room in which the heater is used.

Automatic Safety Shut-Off

This heater is equipped with an automatic safety shut-off device. The purpose of this device is to quickly and efficiently shut off the heater when the heater is jarred or tipped over while in operation. This is the main safety system that is built into the heater, and it functions to prevent the flame from spreading if the heater is knocked over.

The automatic safety shut-off device is built into the mechanism that raises and lowers the wick. It has been designed so that if the pendulum is jarred by a shock of some sort, it retracts a latch from wick control shaft ratchet, and a torsion spring reacts to drop the wick to its fully lowered position. The rapid lowering of the wick extinguishes the flame.

IMPORTANT NOTICE: For the safety shut-off device to function properly, the wick must be free of carbon and tar deposits. Regular performing the "Carbon Removal/ Dry Burning" procedure described in the "Wick Maintenance" and "Carbon Removal/ Dry Burning" sessions is very important to the proper functioning of this important safety device.

IMPORTANT NOTICE: PLEASE CHECK THE SAFETY SHUT-OFF DEVICE ONCE A WEEK DURING THE HEATING SEASON TO INSURE THAT IT IS FUNCTIONING PROPERLY.

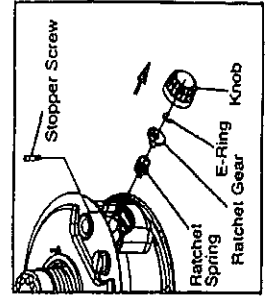
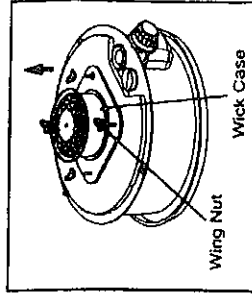
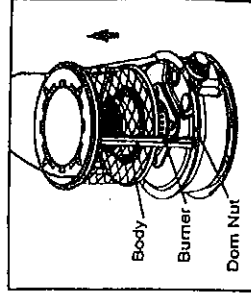
IMPORTANT NOTICE: EVERYTIME THE WICK IS REMOVED OR REPLACED, THE SAFETY SHUT-OFF DEVICE MUST BE TESTED TO INSURE THAT IT IS FUNCTIONING PROPERLY.

TO TAKE CARE OF WICK

1. The wick which is in glass fibre need not have its top scissored off form time to time.
2. But when it is used for a long time, a tar-like substance is deposited on its top, affecting the sucking up of fuel and the wick's vertical movement. To remove this tar-like substance, you will burn the wick idle as follows:
Do not fill oil to the heater, even after the fuel indicator has pointed to "0"
-continue to burn it until the fire dies down.
By this time the tar-like substance on the top of the wick will have been consumed, resulting in better sucking up of oil and smoother movement of the wick
3. You need not worry about the wick being destroyed by the above burning idle, as it is in glass fibre.
4. You will practise this idle burning of the wick once in 20 to 30 days.

TO EXCHANGE WICKS

1. Remove 3 dom-nut that fix body to fuel tank.
2. Remove body and Burner.

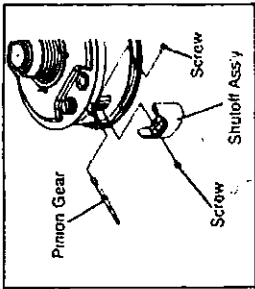


3. Pull off the Wick Case by screwing off the four Wing Nuts.

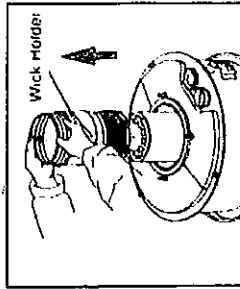
4. Pull off the Wick Control Knob by hand

5. Remove the Stopper Screw & E-ring and then remove Ratchet Gear & Spring in order

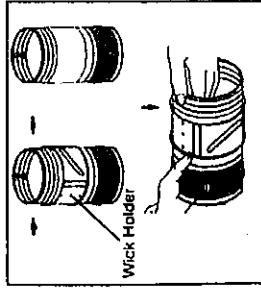
6. Remove Shutoff Ass'y from Fuel tank by unscrewing Screw that fix Shutoff Ass'y.
7. Remove Pinion Gear from Fuel tank. by unscrewing Screw that fix Pinion Gear.



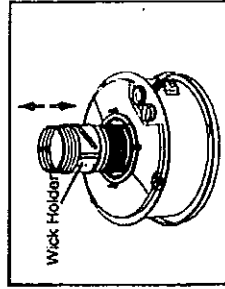
8. Lift the wick holdle assembly straight up and remove form the tank.



9. Remove the wick from the holder by folding it toward the center loosening it from the sharp metal teeth on the inner surface of the inner surface of the holder, and slide it out.
10. The black line on the outside of the wick should match the top edge of the holder. Then press it against the teeth inside the holder to obtain a firm grip.

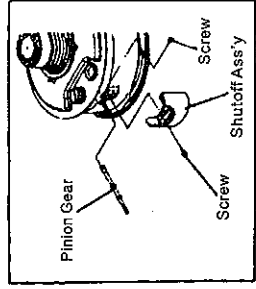


11. Replace the wick holder assembly in the Fuel Tank, Rotate 90 degrees left and right as well as up and down until the wick slides freely.

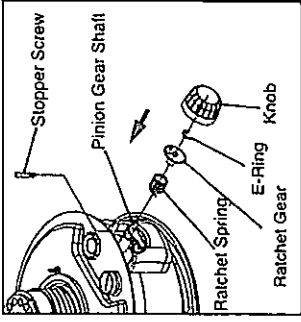


Check to see that gasket is still in place on the Fuel Tank.

12. Insert the pinion Gear at the other end of the wick control shaft into the rack of the wick holder and fix by Screw.
13. Replace Shutoff Ass'y to Fuel Tank.

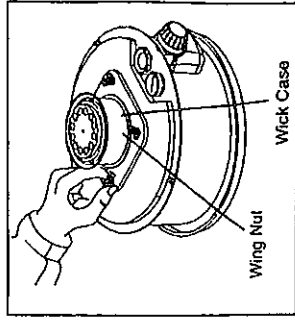


14. Replace the Ratchet Spring & Gear to shaft and Fix with E-ring.
- And Replace Stopper Screw to Shaft.

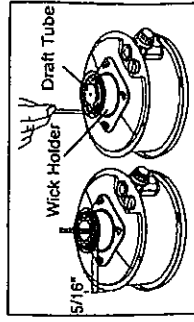


15. Replace the Wick Control Knob to Shaft by Har

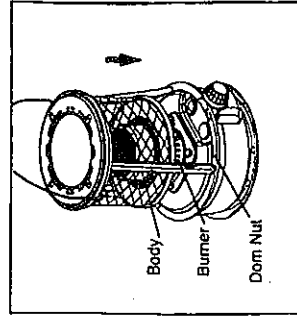
16. Replace Wick Case to the Fuel Tank.



17. Check height of wick. It should be 5/16" above collar.
18. Check for correct clearance between wick holder and draft tube. It should be the same all around.



19. Reinstall buener & body to fuel tank reinstall dom nut to fix body.

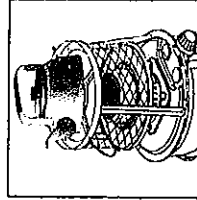
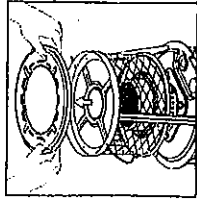


CAUTIONS FOR ASSEMBLERS

1. In case you consider water or dirt to exist in the fuel tank of the heater, you will remove them by turning the tank upside down and then wash it using pure white lighting kerosene.
2. In fitting the wick-adjust-handle, mind not to fasten the wick-adjust-handle nut too tightly
3. The burner flame rubber packing stuck on the bottom of the burner cover should never be removed.
4. After assembling the heater, you will test it in a safe place, before you use it actually.

A KETTLE HOLDER HAS BEEN INCORPORATED INTO THE HEATER

(Patents have already been applied for or with world wide Authorities.)
This new device enables the heater to be used as a room heater and a cooking stove all the year round.
(Remove the top-plate, and you can use the heater as a cooking stove as well.)



CAUTIONS IN USING

1. The heater should be used on a horizontal level.
2. The heater should not be subjected to drafts.
3. The heater should not be used near inflammables.
4. The room in which the heater is used should have sufficient ventilation.
5. Users are requested to pay special attention to children while the heater is being used

NOTES IN STORING OFF SEASON

1. Disassemble and clean the heater before storing away.
2. The wick should be kept apart from the wick holder and the fuel tank.
3. The heater should be stored in an airy space with less humidity.

TROUBLE CAUSES AND MEASURES

Simple troubles causes and measures are listed up in the following table.
Check each item and find out the applicable measures corresponding to the defect items and cause items concerned.

Defects	Ignition is hard or impossible	Smells bad	Takes much time until perfect combustion	Produces much soot	Burns with red flame partly	Burns excessive consumption of fuel	Knob rough or turning is hard or impossible	Lifting and lowering of wick is hard or impossible	Takes much time for extinction	Red burning of wick is not even	Abnormal noise or impossible	Ignition	Defects
Causes													Measures
Wick is holding water	●					●						●	Dry or replace wick
Wick level is too high		●							●				Lower wick as specified
Wick level is too low	●									●			Raise wick as specified
Wick level is uneven					●				●	●			Trim wick
Chimney assembly unstable		●		●	●					●			Stabilizer or replace combustion cylinder
Wick winding mechanism tight in operation							●	●					Slightly loosen cap nut or replace packing
Engagement between handle gear and rack is unsatisfactory							●						Disassemble and correct engagement
No fuel or storage of fuel	●	●								●			Supply kerosene
Carbon is deposited in wick	●	●	●				●	●		●			Clean up wick by no-fuel burning
Wick is damaged due to miss-fitting							●	●				●	Replace wick
Wick guide tube & wick holding cylinder is not concentric				●	●		●	●		●			Correct to make them concentric
Water content is mixed in fuel	●											●	Clean up inside of tank and replace fuel
Bad fuel		●		●	●								Replace with good fuel
Fuel is spilt		●											Wipe off with cloth
Tightening of wing nut depressing wick holding tube is uneven							●	●		●			Make it even to make a concentric circle

FEATURES

1. The glass fiber wick which is incorporated in this heater is highly heat resistant and durable
2. The upper reflector which sends heater downward ensures warmth of your legs and feet.
3. Safety is also ensured by means of the finely designed guard frame.
4. The chimney which is in stainless steel is highly durable.

USERS ARE REQUESTED TO OBSERVE THE FOLLOWINGS

1. Fill this heater with pure lighting kerosene. No other fuel should be fed into this heater.
2. Fuel is to be stored in a safe place.
3. This heater should not be used in a narrow space or near inflammables.
4. This heater should not be subjected to drafts.
5. This heater is to be used on a horizontal level.
6. Care should be taken not to spill oil. If it is spilt, wipe it out.
7. Before you fill oil, or before it is moved to another place, do not fail to extinguish this heater.
8. Burn the wick idle once in every 20-30 days. (how to burn the wick idle is described in this instruction manual).
9. When you evacuate your room or before you go to bed, make sure the fire is out.
10. Ventilation is required in room in which this heater is used.
11. If the heater is accidentally overturned, simply set it upright again. In case of fire, set the heater upright, and extinguish the fire with fire-extinguisher or cover the heater by blanket.