

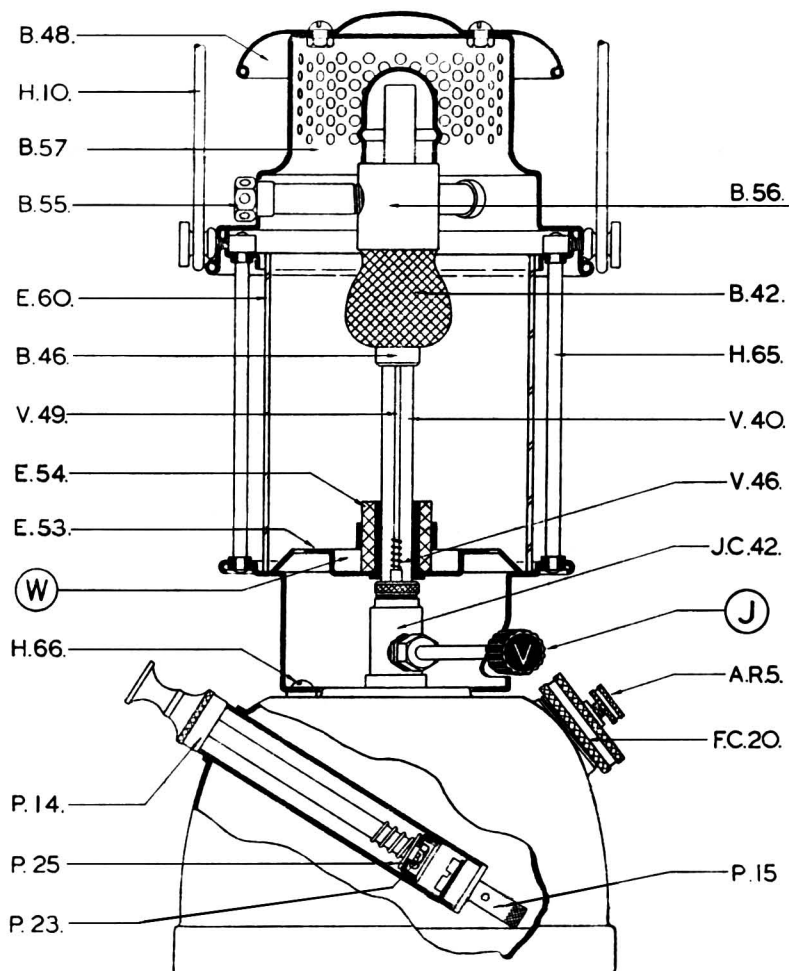
INSTRUCTIONS FOR OPERATING

The Bialaddin Pressure Lantern

1. Remove protective packing at the top and bottom of the glass cylinder.
2. Remove Filler Cap, "F.C. 20" and fill container with CLEAN Kerosene (paraffin)
Do not overfill. Replace Filler Cap and screw securely.
3. Be sure that the Air Release Screw, "A.R. 5," is unscrewed and that the arrow head on the knob, "J" is pointing down "V." Place the lamp in as sheltered a position as possible.
4. Raise the glass chimney, and with the special Can provided, saturate Tubular Wick and fill the Well "W" with Methylated Spirit and apply a light. Lower the Glass.
5. Allow to burn until the flame begins to drop below the burner (about $2\frac{1}{2}$ minutes). Then close Air Release Screw, and pump until the Mantle, "B. 42" ignites. (If a flare is produced loosen Air Release Screw and repeat operation 4.) Allow to burn for half a minute and then pump up well until the maximum light is obtained. **There is no danger of over-pumping, but it will not increase the maximum light.**
6. To extinguish the lamp unscrew Air Release Screw and leave it loose while the lamp is not alight.
The knob "J" must never be used to extinguish the lamp.
7. To maintain maximum illumination the lamp should be pumped occasionally and the Knob "J" given half a turn to the right and back again quickly, which automatically cleans the vapouriser jet. If the Knob is not turned quickly enough the mantle may not re-light. In this case hold a light outside the perforations in the burner hood.
8. Do not continue to use a Mantle which is damaged as this may break the Glass Cylinder.

Bialaddin Pressure Lantern.

Model 300X.



ALADDIN INDUSTRIES LIMITED

ALADDIN BUILDING, GREENFORD, MIDDLESEX, ENGLAND.

PRINCIPAL SPARES FOR

BIALADDIN PRESSURE LANTERN.

MODEL 300X.

<i>Description</i>	<i>Ref. No.</i>
Burner—Complete with Air Buttons	B 56
Hood with Cowl	B 57
Cowl	B 48
Air Button	B 55
Tubular Support for Mantle	B 46
*Mantle (Special Weave)	B 42
Vapouriser—C'plete with Pricker Wire & spring	V 40
Pricker Wire with Spring	V 49
Spring	V 46
Spirit Well—Complete with Tubular Wick	E 53
Tubular Wick	E 54
Handle—Complete with Nuts	H 10
Frame—Complete	H 65
Screws for fixing to container (set of 3)	H 66
Glass Cylinder (Heat Resisting)	E 60
Jet Cleaner—Complete with Feed Tube	JC 42
Filler Cap—Complete with Air Release Screw	FC 20
Air Release Screw with washer & pin	AR 5
Pump Plunger—	
Complete assembly including Leather	P 14
Nut for securing Pump Leather.....	P 23
Support Disc for Pump Leather	P 25
Pump Valve—Complete Assembly	P 15
Washers Complete set including Pump Leather	W 5
Methylated Spirit Can	SC 2
Burner Cleaning Brush	B 60
REFLECTOR VITREOUS ENAMEL	R.12

*This Mantle is specially produced for the Bialaddin Pressure Lantern
It is designed to give maximum Illumination and Strength

No other Mantle is suitable.

General Maintenance.

1. **To remove Glass.** Loosen the two screws which hold the Carrying Handle in position. The Hood and Burner can then be lifted off. The Glass can now be removed. When replacing the Hood and Burner, hold it down with one hand whilst the two handle screws are tightened.
2. **To Fit new "Bialaddin" Mantle.** Remove the Hood and Burner as instructed above, and fit as per instructions enclosed with each Mantle. When removing the Tubular Mantle Support be careful if pliers are used, **not to grip the tube so tightly as to distort it** When replacing the tube screw in finger-tight only.
3. **Vapouriser.** After a considerable time, **more quickly if inferior kerosene has been used**, the Vapouriser will be choked with carbon, causing the light to be very poor. This Vapouriser is of no further use, and **no attempt** must be made to clean out the carbon.
4. **To fit new "Bialaddin" Vapouriser.** Remove the Hood complete with Burner, and the Glass, as instructed above. The Spirit Well can then be lifted off. Unscrew the old Vapouriser and replace with a new one and screw down tight (do not use unnecessary force). It is very important that only genuine "Bialaddin" Vapouriser Washers should be used for this joint because they are of special kerosene resisting material, and are of the correct thickness, consequently, **never use two washers for this joint.**

When handling a Vapouriser, take care not to let the central Pricker fall out. Should this accidentally happen, care must be exercised when re-inserting it, otherwise the fine point on the end may become damaged. It will be found easier if the Vapouriser is held upside down whilst replacing the Pricker. Do not employ force, and also be sure that the small Coil Spring is on the Pricker before inserting it.

5. **Jet Cleaner.** The special washer between the Jet Cleaner and the Oil Container may occasionally require renewing, or the Jet Cleaner may require tightening to overcome any slight leakage. To remove or tighten the Jet Cleaner, dismantle the Lantern, removing Burner, Glass and Vapouriser, and remove the three Screws which hold the Frame to the Container. The Frame can then be lifted from the Container, the large hole allowing it to pass over the Jet Cleaner Knob "J." The Jet Cleaner can now be tightened or removed. When removing or tightening do not use Knob "J" as a lever, as this will only bend the Spindle. Should oil escape from the Gland Nut, this can easily be remedied by tightening slightly, but not so much as to make it difficult to operate the Knob.

General Maintenance *(Continued)*

- 6. Combined Filler Cap and Air Release Screw.** Occasionally the special Rubber Washer in the Filler Cap requires renewal. The old one should be removed and a new one inserted, taking care that it lies flat in the recess at the bottom of the thread.

To replace Air Release Screw Washer remove small brass Split Pin which retains the Screw, and unscrew it completely from the Filler Cap. The Washer can now be replaced. Be sure to put back the small Split Pin, as this prevents loss of the Air Release Screw.

- 7. Pump.** Should there be no resistance when pumping, unscrew the Pump End Cap, and remove the Plunger. Rub a little Olive Oil or good Machine Oil on the Pump Leather, and at the same time open it out a little so that it becomes a tighter fit in the Barrel. If the Leather is damaged in any way, it should be replaced. A new Leather works better if well soaked in oil. Should the Plunger rise of its own accord, or Oil escape in the Barrel, this is a sign that the Valve at the lower end of the Barrel needs attention. Immediately loosen Air Release Screw, remove combined Filler Cap and Air Release Screw, and empty out the kerosene from the Container. Remove the Pump Plunger, and insert a screw driver down the Barrel into the slot in the Valve. If this is loose, tighten it; but if not, it is an indication that the Valve portion itself requires attention. Unscrew this, and turn the Lantern upside down so that the complete Valve Unit falls out. This unit can be dismantled as follows—Unscrew the Milled End Cap, allowing the Valve Spring and Valve to be removed. Make sure that there is no dirt or obstruction on the face of the special Valve Rubber, and if it is worn or damaged it should be replaced. See that the Valve has a free movement in the Cap, and that it makes perfect contact with the Valve Seat. Should the Valve or Valve Spring be damaged in any way, it is advisable to replace it.

NOTE A Reflector (R.12) is obtainable for the Bialaddin Lantern and should be used whenever it is desired to throw the light downwards.

Possible Faults and how to trace them

Lantern loses pressure too quickly.

Look for an obvious leak of kerosene. If not apparent, inspect the Jet Cleaner Washer, and also the Filler Cap and Air Release Washers. This is described in detail in Note 5, on page 4, and Note 6 on page 5.

Light poor or fluctuating.

- (1) Container may be nearly empty.
- (2) Have you operated the Jet Cleaner Knob, "J"? (See Note 7 on page 1).
- (3) Is a new Vapouriser required? (See Notes 3 & 4, page 4).
- (4) Is there water present in the Oil Container.? If so, the Container should be emptied thoroughly and refilled with fresh kerosene.

Leakages of Kerosene.

- (1) Kerosene leaks in Pump Barrel.? (See Note 7, page 5).
- (2) Kerosene leaks from Filler Cap or Air Release Valve.? (See Note 6, page 5).
- (3) Kerosene escapes from Container Top.? (See Note 5, page 4), paying particular attention to the Gland Nut which may require tightening as well as the Jet Cleaner Washer.
- (4) Leakage from joint of Vapouriser to Jet Cleaner.? (See Note 4, page 4).

After pre-heating, Lantern does not operate.

- (1) Is Kerosene and Pressure present in the Container.?
- (2) Is the Vapouriser in order.? (See Notes 3 and 4, page 4).
- (3) Is there water present in the Container.? If so, it should be emptied thoroughly and refilled with fresh kerosene.

If a roaring noise occurs.

Occasionally, when operating the jet cleaner, the flame may light back in the burner, causing a roaring noise. Should this happen - again operate the jet cleaner quickly. If this fails to stop the noise, extinguish Lantern and re-light.

VAPALUX

MODEL

300.X.



BRITISH

MADE

KEROSENE
(PARAFFIN)

PRESSURE LANTERN

EXPORT DISTRIBUTORS:

ALADDIN INDUSTRIES, LTD.

GREENFORD
ENGLAND