

MAINTENANCE

The use of good quality, clean fuel and careful observance of the Operating Instructions will delay the need of internal cleaning for some hundreds of hours burning. When it becomes necessary however, the sequence to be observed should be as follows :—

Remove Canopy and GLASS CYLINDER and ensure AIR RELEASE SCREW is open. Withdraw "U" tube, which is a push in fit, from the MIXING CHAMBER and unclip SPIRIT CUP from VAPORIZER TUBE. Unscrew CENTRE NUT and lift off the whole Lantern Cage Assembly.

Access to interior of MIXING CHAMBER, AIR TUBES, and BURNER NOZZLE is now readily available and these parts should be detached, scraped clean of accumulated carbon and foreign matter, and swilled with clean paraffin oil. Re-assemble them into the relationship from which they were dismantled, particularly noting that the AIR TUBE nearest to the BURNER NOZZLE is mounted furthest from the oval slot.

Set the FUEL CONTROL VALVE fully ON and remove NIPPLE from the top of VAPORIZER TUBE, unscrew UNION NUT and lift VAPORIZER TUBE vertically, using great care to avoid damaging the NEEDLE POINT now exposed. Hold LOCK NUT firmly and unscrew (anticlockwise) the NEEDLE STEM, this latter together with the VAPORIZER TUBE and NIPPLE should be thoroughly cleaned of all fouling, inside and out, finally swilling with clean paraffin to remove all loose particles and carefully pricking the NIPPLE hole with the NEEDLE POINT.

REASSEMBLY. Replace NEEDLE STEM, screwing it tightly against LOCK NUT, which should not have moved on its thread, and check that FUEL CONTROL VALVE is in the "ON" position. Again taking care not to damage the NEEDLE POINT. Return VAPORIZER TUBE to seating and tighten UNION NUT. Observe that NEEDLE POINT is central and does not project above the VAPORIZER TUBE with FUEL VALVE fully ON, then replace NIPPLE tightly. Gently rotate FUEL VALVE toward the OFF position taking particular note that at no point of its travel must the NEEDLE project more than 1/32in. from NIPPLE hole. Should it do so, the LOCK NUT must be slackened back and EXTENSION ROD adjusted by an appropriate amount. Operate FUEL VALVE two or three times to ensure that it is working freely, and leave it set ON.

The Lantern Cage may now be placed in position, locked in place with CENTRE NUT, and SPIRIT CUP clipped to VAPORIZER TUBE in readiness for MANTLE fitting outlined in Operating Instructions.

A little lubricant should be applied to the Pump Cup Leather occasionally in order to prevent it drying out and hardening. Neat's foot or Castor oils are very suitable.

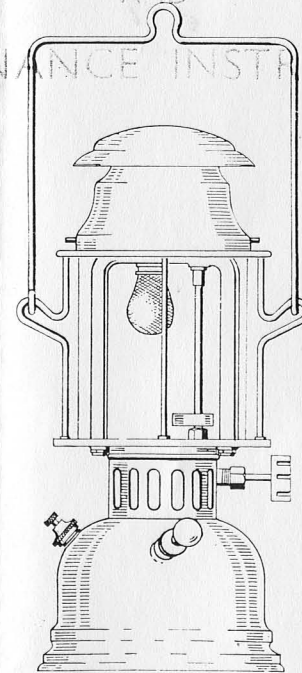
THERMIDOR

303

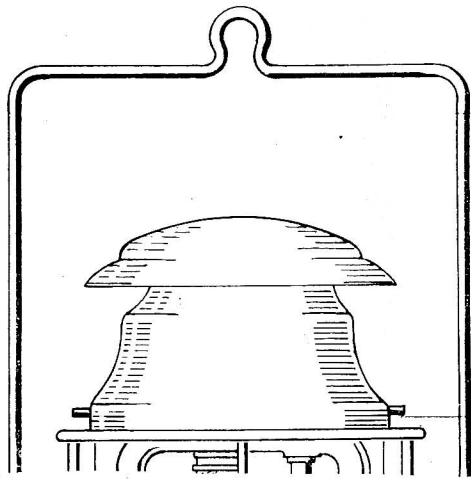
INCANDESCENT PRESSURE LANTERN

(PARAFFIN · KEROSENE)

OPERATION AND MAINTENANCE INSTRUCTIONS



SAMUEL HEATH & SONS LTD
BIRMINGHAM 12 · ENGLAND



CARRYING HANDLE

CANOPY

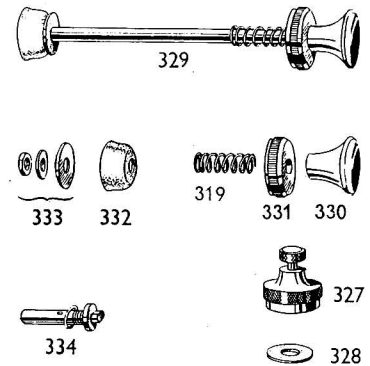
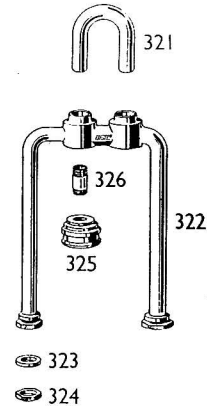
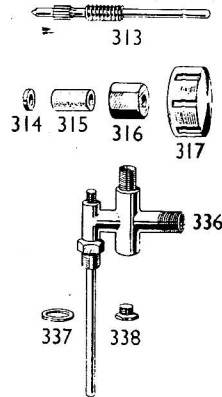
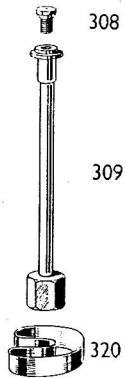
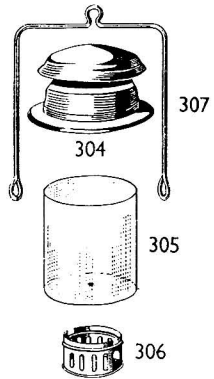
GENERAL DIRECTIONS

The Thermidor 303 Lantern incorporates a mechanical cleaning device for the nipple which is operated by means of the control valve which, when closed tightly, pushes the cleaning needle through the orifice in the nipple. If the light should become dim due to dirt or carbon, rapid manipulation of the control valve to off and on positions should clear the obstruction without extinguishing the light.

After many hours use there may be a tendency for an excess flame to appear outside the mantle which denotes that too much gas is coming through the nipple.

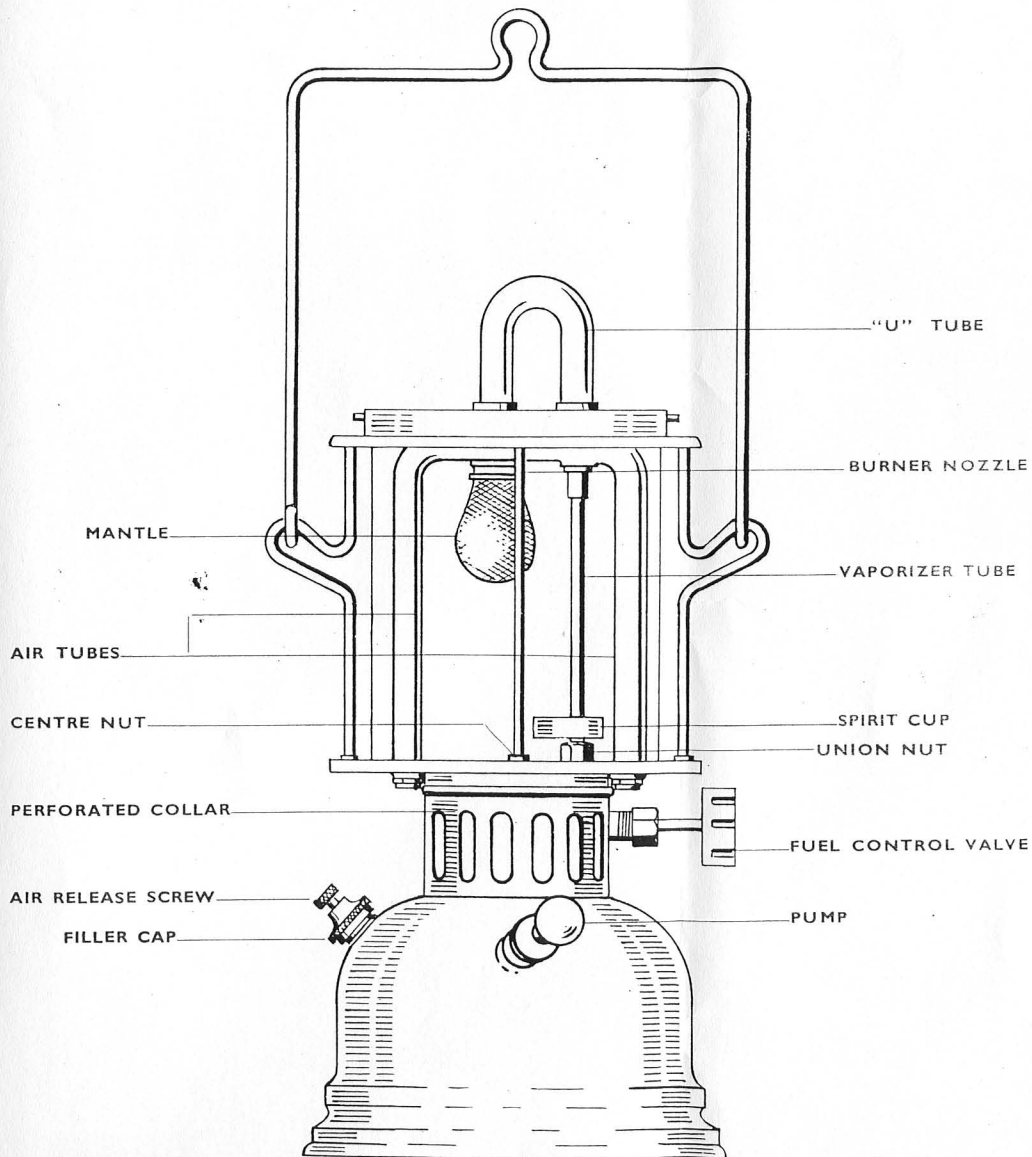
To remedy this remove the nipple and replace with the spare one provided.

SPARE PARTS



OPERATING INSTRUCTIONS

SPARE PARTS LIST



1. FILLING. Remove FILLER CAP and fill container NOT MORE than three-quarters capacity with clean Paraffin Oil (KEROSENE) supporting the lantern vertically for the purpose. Replace filler cap finger tightly and see that FUEL CONTROL VALVE is turned fully OFF.

2. FITTING AND BURNING OFF NEW MANTLE. REMOVE CANOPY, which is held in position by means of bayonet catches. Lift out GLASS CYLINDER, tie on MANTLE ensuring that tying cord rests within groove on BURNER NOZZLE and mantle hangs evenly. Cut off surplus cord. Apply a light to bottom of the mantle and allow it to burn. Replace glass and canopy and light the lantern.

3. LIGHTING. Loosen AIR RELEASE SCREW by one or two turns and ensure that FUEL CONTROL VALVE is turned OFF.

Fill SPIRIT CUP with Methylated Spirit by inserting specially shaped tube of spirit can through oval slot provided beneath the spirit cup and apply a light to the spirit, also through oval slot.

When the spirit is about half consumed, CLOSE the AIR RELEASE SCREW, and apply 8-10 strokes of the PUMP.

Just before the spirit burns entirely away, turn on the FUEL CONTROL VALVE and the MANTLE should light.

If the spirit has been allowed to burn completely out, REPEAT section LIGHTING.

Once the Lantern is well alight, pressure may be increased by means of the Pump and the FUEL CONTROL VALVE adjusted for maximum brilliance. The pressure should be maintained by one or two pumps-full of air about every three hours as fuel is consumed.

4. EXTINGUISHING. Open the Air Release Screw and turn OFF the FUEL CONTROL VALVE.

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**Good pressure is essential to successful operation.
Do not fear to pump freely and vigorously.**