

# UNIMET

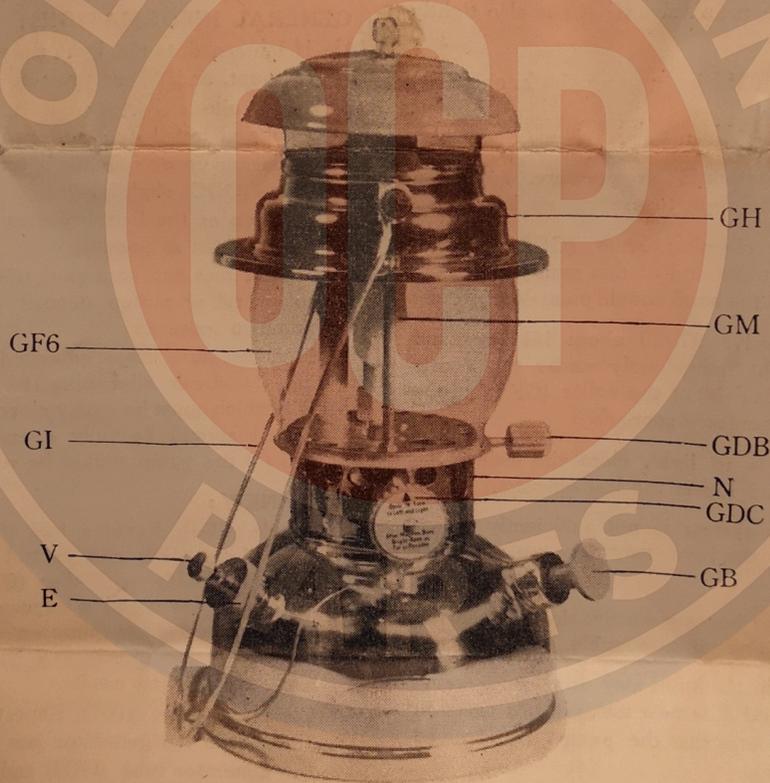
Gasoline  
Pressure Lantern  
Model GL-1

YOUR  
"BETTER SERVICE"  
BOND

This "Unimet" gasoline pressure lantern was manufactured with the best materials and finished in most elegant appearance. The fount was carefully tested and all components properly checked. This lantern is an ideal lighting appliance for Economy and Efficiency.

The operating instructions should be strictly observed and followed so that this lantern will serve you long and well.

## OPERATING INSTRUCTIONS & PARTS LIST



Manufactured by:  
**UNION METAL WORKS LTD.**  
Hong Kong

## OPERATING INSTRUCTIONS

### A. TO PUT ON MANTLE:

1. Remove bail (GI), ventilator (GH), glass globe (GF6) and then tie mantle (GM) on groove of burner casting (GD14) with mantle folds evenly distributed around groove.
2. Burn off the mantle (GM) completely until nothing but white ash remains.
3. Replace glass globe (GF6), ventilator (GH), and bail (GI).

### B. TO LIGHT:

1. By means of the funnel (F10) provided, fill the fount (GA) with clean gasoline to the level of the opening, and wipe off any trace of fuel that has been spilled during filling.
2. Replace the filler plug (E) firmly.
3. Close the air release valve (V) on top of the plug.
4. Make sure that the main valve (GDC) is also tightly closed.
5. Loosen the pump (GB) by turning the knob (GB1) to the left.
6. Operate the pump (GB) for about 25 to 35 strokes to build up the required air pressure, and then rescrew tight to the right to prevent air leak.
7. Turn the nipple cleaning knob (GD24) several revolutions, and at the end of this manipulation the arrow indicated on the knob should point downwards.
8. Open the main valve (GDC) about 1/4 turn, and then apply a light immediately under the mantle through the opening (N) of the collar (GF), and the lantern should incandesce soon.
9. If the lantern fails to light, close the main valve (GDC) at once, and repeat the last operation.
10. If the combustion system is not sufficiently heated at initial starting, the light may flare up or flicker a short while.
11. After the light has become steady, slowly open the main valve (GDC) as far as possible.
12. The air pressure in the fount may drop considerably during starting, and it is now necessary to pump in more air, making sure that the pump is rescrewed tight after pumping.

### C. TO EXTINGUISH:

Close the main valve (GDC). To turn the nipple cleaning knob (GD24) with arrow pointing upwards will help stop the light quickly.

### IMPORTANT:

1. Always fully open the main valve (GDC) as far as possible after lighting up.
2. Make sure that the pump (GB) is always screwed tight after pumping.
3. Tighten gently packing nuts (D11 and GD31) to prevent leak whenever necessary.
4. The nipple cleaning knob (GD24) should always be left with arrow pointing downwards.
5. Never attempt to use knob (GD24) to extinguish lantern. Close main valve (GDC) to turn out the light.
6. Keep pump leather (GB7) soft by occasionally applying a few drops of lubricating oil.
7. Clean fount (GA) periodically.
8. Use clean gasoline. Dirty and stale fuel quickly clogs and deteriorates the generator.
9. Empty the fount thoroughly when lantern is to be out of use for some time.

### GENERAL INFORMATION:

- (A) If lantern does not light, make sure (1) there is fuel in fount, and (2) air pressure is sufficient.
- (B) It is quite expected that lantern will flare up or smoke at initial lighting.  
If flaring up or smoking is excessive, close the main valve (GDC) slightly.  
As soon as the light becomes steady, open the main valve as far as possible.
- (C) If light goes dim, turn knob (GD24) a few revolutions to get rid of carbon deposit on nipple orifice and pump in more air.
- (D) If air pressure drops quickly despite frequent pumping, (1) check filler plug (E) and air release valve (V) which must be firmly closed, (2) the main valve (GDC) should be fully opened after lighting up, and (3) the pump should be rescrewed tight.

### TO RENEW:

- (1) Nipple (GD4); Remove bail (GI), ventilator (GH), glass globe (GF6) and central screw (GD2). The burner assembly with disc (GJ) may be taken off and the nipple (GD4) is exposed. Use the spanner (GF9) provided to unscrew the nipple. When replacing a new nipple care should be taken not to bend the cleaning needle.
- (2) Cleaning needle (GD7); Repeat the above operation and loosen the generator jam nut (GD5). Take off the generator tube (GD3) and the cleaning needle (GD7) will be exposed. Turn the knob (GD24) until arrow is facing the upmost position. Then the needle can be slipped out from the groove of the eccentric link (GD6). Replace all parts in reverse order.

PARTS LIST

Part No.	Description	Part No.	Description
GA	Fount	GD21	Fuel needle
GB	Pump assembly	GD22	Fuel needle spring
GB1	Pump plunger and knob	GDB	Cleaning lever assembly
GB2	Pump cap	GD23	Eccentric rod
GB3	Cap screw	GD24	Cleaning needle knob
GB4	Pump plunger spring	GD25	Eccentric rod bearing
GB5	Leather cup washer	D4	Eccentric rod packing
GB6	Leather cup spacer	D11	Eccentric rod packing nut
GB7	Leather cup	GDC	Main valve assembly
GB8	Leather cup spreader	GD26	Valve stem
GB9	Plunger nut	GD27	Valve stem spring collar
GC	Check valve assembly	GD28	Packing stopper
GD	Burner assembly complete	GD29	Packing
GD1	Valve body forging	GD30	Packing ring
GD2	Central screw	GD31	Packing nut
GD3	Generator tube	GD32	Valve knob
GD4	Nipple	GD33	Instruction plate
GD5	Generator jam nut	GD34	Knob screw
GD6	Eccentric link	E	Filler plug group
GD7	Needle and shank	E1	Filler plug and air release valve
GD8	Packing spring	E2	Filler plug gasket
GD9	Generator packing	GF	Collar
GD10	Air tube	GF6	Glass globe
GD11	Mixing chamber	GH	Ventilator group
GD12	Connecting tube	GH1	Ventilator body
GD13	Connecting tube lock nut	GH2	Ventilator top cover
GD14	Burner casting	H3	Cover screw
GD15	Support rod	H4	Cover screw nut
GD16	Support rod nut	H8	Cover screw washer
GD17	Ventilator stud	GI	Bail
GD18	Ventilator stud nut	GJ	Disc
GDA	Suction tube assembly	GF9	Spanner
GD19	Fuel and air tube	F10	Funnel
GD20	Fuel tip	GM	Mantle

When ordering spare parts, please mention their part numbers and names.

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## SPARE PARTS FOR GASOLINE PRESSURE LANTERNS

### MODEL GL-1

