

### 5. GENERATOR REPLACEMENT.

The generator in this Lantern is the very best that is made and will give satisfactory service for as much as 200 hours or more of burning—if CLEAN, UNTREATED GASOLINE is used, but if treated or doped gasoline is used it may only last ten hours. It is the part which generates the gas and in time becomes clogged with carbon and must be replaced. A new generator is inexpensive and easy to change. Keep an extra generator on hand so that you will not be inconvenienced when the old one finally clogs and must be replaced.

### 4. CHANGE GENERATORS.

- Unscrew hanger ring; remove reflector and chimney.
- Unscrew and lift up taper connection nut [L-122] and generator tube.
- Unscrew the lower and of wire retainer [L-123A] at the knurled portion—using fingers, pliers are unnecessary.
- Lift wire retainer and generator to clear union connection [L-121-A], swing it forward and withdraw from burner body [L-130].
- Insert new generator, taper connection nut and wire retainer into burner body and swing over union connection.
- Screw wire retainer into eccentric rod [L-124-A] lightly, using fingers, not pliers.
- Lower the generator over union connection and tighten taper connection nut firmly.
- Replace chimney, reflector, and hanger ring.

### KEEP A NEW GENERATOR ON HAND.

### 5. LOSS OF PRESSURE—Light dims shortly after lighting.

If the Lantern is losing pressure too rapidly one or more of the following causes may be responsible for it. To test, empty all gasoline, put approximately 75 strains of pressure into the tank, submerge in clean water and watch for air bubbles to indicate the location of leak.

- CAUSE: Instant light valve may not be shut off when lantern is in operation.  
CORRECTION: Shut off the instant light valve firmly.
- CAUSE: The instant light valve packing may be loose and passing air.  
CORRECTION: Tighten up the instant light valve packing nut.
- CAUSE: The pump may not be tightened down firmly enough.  
CORRECTION: Tighten down the draw-down nut on pump.
- CAUSE: The vellumoid pump gasket may be dried up.  
CORRECTION: Put few drops of oil on the vellumoid gasket.
- CAUSE: The vellumoid gasket may be worn out.  
CORRECTION: Replace with new gasket.
- CAUSE: There may be dirt on the pump seat preventing complete seal.  
CORRECTION: Carefully wipe out any visible dirt and foreign particles.

### 6. PUMP DOES NOT OPERATE PROPERLY.

CAUSE: A dry pump leather washer.  
CORRECTION: Unscrew pump cap, remove plunger, oil washer well and soften with fingers. Insert in pump cylinder and screw down pump cap.

### PUMP HANDLE SPRINGS BACK.

CAUSE: Dirt on check valve or worn cork check.  
CORRECTION: Unscrew cork check plug and clean or replace as the case may be.

### 7. CLEAN THE TANK.

At regular intervals rinse out the tank well with clean gasoline. This will remove any dirt or moisture that has collected.

### 8. MORE INFORMATION.

Should you have any difficulty which you cannot correct, WRITE US and explain the trouble. We will gladly give you special instructions.

## Repair Parts List

BE SURE TO STATE NUMBER, NAME AND PRICE of the part which you want.

Prices subject to change without notice.

Part No.	Name of Part	Price
L-107	Valve Body	\$.40
L-121A	Union Connection	.24
L-122	Taper Connection Nut	.10
L-123A	Wire Needle Assembly	.20
L-124—125A	Ring and Eccentric Rod	.30
L-129	Generator Tip	.14
L-130	Burner Body	.70
L-131	Burner Tube	.20
L-132	Burner Tip and Screen	.20
L-134	Air Tube and Upright Post	.24
L-147	Pump Draw-Down Nut	.20
L-148	Vellumoid Washer	.06
L-152	Pump Cap	.14
L-153	Plunger	.40
L-156	Chimney	.90
L-157	Draw Nut	.10
L-158	Reducer Nut	.20
L-161	Manifolds, each 10c; six for	.45
L-163	Burner Screw	.06
L-173	Pump Complete	1.20
L-174	Leather Washer	.06
L-175	Stop Spring	.10
L-176	Grease Retainer	.10
L-177	Cork Check	.12
L-178	Cork Check Spring	.06
L-179	Cork Check Plug	.12
L-180	Ball and Chimney base, complete	1.50
L-208	Gas Control Needle	.20
L-215	Packing Nut	.20
L-216	Gas Supply Tube	.24
L-220	Instant Light Supply Tube	.28
L-237	Reflector	1.50
L-246	Perforated Ring	.24
L-262	Hanger Ring	.20
L-270	Instant Light Control Valve, complete	.40
L-271	Gas Control Valve, complete	.50
L-272	Tank	1.50
L-310	Follower Nut	.14
L-311	Follower	.10
L-312	Stop Washer	.08
L-360	Packing	.06
L-170	Generator Complete (Includes L-123A, L-126, L-129, L-135)	.50
	Funnel	.18
	Wrench	.12

Always Give the Name and Number of the Lantern When Ordering Repair Parts.

# DIRECTIONS

## For Operating

# TURNER

## Gasoline

# LANTERN

Model No. 1511 & 1512

## GASOLINE

USE ONLY CLEAR, UNTREATED Gasoline and specify that it is to be used in a gasoline pressure Appliance.

DO NOT USE (IN ANY CASE) a gasoline containing ETHYL LEAD, or any ANTI-KNOCK COMPOUND. It will rapidly ruin your generator. The Lantern was not designed to use it. BE CAREFUL ABOUT THE GASOLINE.

## DO THESE THINGS

1. Read Directions Carefully.
2. Use Only Good, Uncolored Gasoline.
3. Operate Exactly As Instructed.
4. Keep ALL Packing Nuts Tight to Prevent Leakage.
5. Always Let Air Out of Tank After Using.

## KEEP THESE DIRECTIONS

THE TURNER BRASS WORKS  
Sycamore, Ill. U.S.A.

## and Which are Due to No Fault of Your Lantern.

### READ THESE INSTRUCTIONS CAREFULLY

This Lantern was designed and perfected by competent engineers and is of the highest quality throughout. It was carefully built, rigidly inspected and given a thorough burning test. With the proper care and attention, it will give you splendid service.

Follow the instructions carefully step by step. This Lantern is operated differently from other gasoline mantle lanterns. You will find it a good plan to read all about this Lantern and be sure you understand just how to operate it.

### GASOLINE

**IMPORTANT: USE ONLY CLEAN, FRESH GASOLINE** and specifically buy only gasoline for use in a gasoline pressure appliance.

**DO NOT, UNDER ANY CIRCUMSTANCE, USE A GASOLINE CONTAINING ETHYL, LEAD, OR ANY ANTI-KNOCK COMPOUND** because this Lantern was not designed to burn treated gasoline of any sort. Any treated gasoline will clog your generator in a very few hours and make it unfit for further use.

**BE CAREFUL ABOUT YOUR GASOLINE.** Enclosed is an Approved List of Gasolines. Play safe and use it.

### OPERATION

#### FIRST: ATTACH THE MANTLES.

The mantles are in an envelope inside of the glass chimney. Unscrew the hanger ring and remove the reflector and chimney. Tie a mantle in the groove around each burner tip and distribute the top folds evenly. Cut off the ends of the strings; apply a lighted match to the bottom of each mantle and permit it to burn and cool. Replace the chimney, reflector and hanger ring. Never use a mantle after it has become punctured as the direct blast of heat from the hole in the mantle will crack the chimney.

#### SECOND: FILL THE TANK.

**WARNING** 1. Never pour gasoline if within 10 feet of open flame or fire.

2. Never attempt to fill the Lantern with gasoline while it is burning.

Unscrew the pump draw down nut which also serves as a filler cap. Fill the tank three-fourths full (one quart) of **CLEAN, UN-TREATED** gasoline, pouring through the strainer funnel supplied with the Lantern. Reseat the pump by screwing the draw down nut firmly in place. Wipe off spilled fuel, recap storage container, and store it in a safe place outside the building. This Lantern is entirely safe if ordinary caution and safety rules are followed.

#### THIRD: SUPPLY PRESSURE.

1. Close both valves tightly by turning them to the right. Tighten pump draw down nut.
2. Pump 35 to 40 full strokes of air into the tank.

**WARNING:** Never, in any case, pump more than a total of 75 strokes into the tank.

**CAUTION:** If there is any gasoline leakage, it should be corrected before lighting. Refer to section on **LOSS OF PRESSURE**.

#### FOURTH: LIGHT THE LANTERN.

1. Insert a lighted match through the pilot hole in the chimney

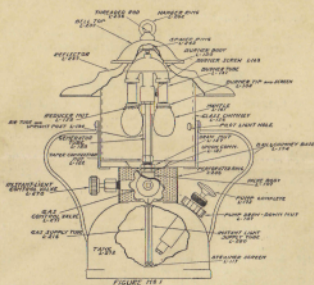


FIGURE 1

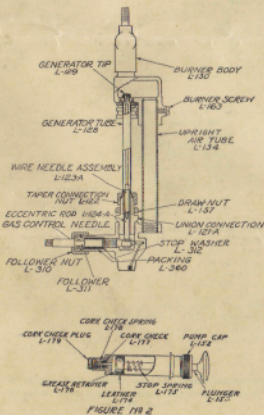


FIGURE 2

2. Open the **INSTANT LIGHT VALVE** (small handle) two full turns and hold the lighted match until the mantles are lighted. Be careful not to puncture the mantles.
3. Just as the light begins to dim (about 30 seconds after lighting) open the **GASOLINE CONTROL VALVE** (large handle) rapidly one full turn (**SO THE WHITE DOT IS DOWN**) and immediately close the **INSTANT LIGHT VALVE** tightly.

**WARNING:** Should you leave the **INSTANT LIGHT VALVE** open it will release the air supply in the tank and put the light out, so be sure to close it.

**NOTE:** The gas control valve is connected with a cleaner needle which cleans the orifice in the generator tip with each revolution of the valve, consequently, when the white dot on handle is in the upper position, the orifice is obstructed by the needle. For normal operation the dot must always be down and the operator should rapidly turn control valve past the upper dot position to prevent extinguishing the light.

**CAUTION: YOU SHOULD NEVER LEAVE THE LANTERN WHILE IT IS BEING GENERATED.**

Your Lantern is now in full operation and should be throwing a brilliant white light.

#### FIFTH: TO EXTINGUISH LANTERN.

1. Close **GASOLINE CONTROL VALVE** firmly, but not too tight or you will damage needle seat.
2. Release pressure by unscrewing pump draw down nut.
3. Tighten pump draw down nut to avoid leakage of gasoline while Lantern is not in use.

### REMEMBER

1. Use only proper fuel—treated gasoline will rapidly clog the generator and you will have to replace it.
2. Fill the tank only three-fourths full (one quart). Over-filling the tank will cause the Lantern to flash when lighting.
3. Never pump more than a total of 75 strokes of air into the tank.
4. Keep packing nuts tight, especially **INSTANT LIGHT PACKING NUT**.

### ADDITIONAL INFORMATION (READ THIS CAREFULLY)

#### 1. THE LANTERN DOES NOT LIGHT.

- a. Be sure you have proper amount of gasoline.
- b. Release pressure by unscrewing pump draw down nut.
- c. Open and close the **GASOLINE CONTROL VALVE** a few times, thus cleaning the small hole in the generator tip.
- d. Pump 40 strokes and light exactly as directed in fourth section "LIGHT THE LANTERN".

**NOTE:** THE NEEDLE POINT IS WITHDRAWN FROM THE ORIFICE WHEN THE WHITE MARK ON THE GAS CONTROL VALVE IS DOWN. GAS CANNOT FLOW THROUGH THE ORIFICE WHEN THE MARK IS AT THE TOP OF THE HANDLE.

#### 2. LANTERN BLAZES OR SMOKES WHEN LIGHTING.

- a. Turn off both valves and allow the flame to burn out.
- b. Relight as previously directed.

**CAUSE:** You opened the Gasoline Control Valve too soon after lighting.

**CORRECTION:** Follow instructions exactly when lighting.