

# Hotspotter®

## Model WB-100 Professional Series

### Assembly, Testing & Operating Instructions

#### Safety Information:

Safety publications related to safe practice and use:

CSA 2-94 "U.S. Requirements for Hand-Held LP Torches for use with fuel supply"

ANSI Z49.1 "Safety in Welding and Cutting"

NFPA 54 "National Fuel Gas Code"

NFPA 58 "Standard for the Storage and Handling of Liquefied Petroleum Gases"

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**WARNING:** This product contains chemicals, including lead, known to the state of California to cause cancer and birth defects or other reproductive harm.  
*Wash hands after handling.*



**WESTERN**  
ENTERPRISES

G A S C O N T R O L T E C H N O L O G Y



Removing Paint



Killing Weeds

**CAUTION:**

- DO NOT smoke around or expose supply tank(s) to open flames or sparks.

**Storage:**

Never store a torch that is still hot. When the torch is stored indoors, the connection between the LP gas tank(s) and the device must be disconnected, and the tank(s) removed from the device and stored outdoors in accordance with Chapter 5 of the "Standard for the Storage and Handling of Liquefied Petroleum Gases", ANSI/NFPA 58.

**CAUTION:**

- DO NOT smoke around or expose supply tank(s) to open flames or sparks.
- The hose assembly shall be protected from traffic, crushing, and hot surfaces. This may cause premature wear of the hose.
- DO NOT lift tank by the valve. Lifting the tank by the valve may result in damage to the valve.

**NOTE:**

- Storage temperature shall not exceed 120° F (49° C).
- Place tank on level surface in an upright position. Do not invert or lay tank on its side.

## Maintenance

Prior to each use:

1. Inspect all components of the device for damage, excessive abrasion or wear. If the hose is cut or is more than 5 years old, it must be replaced prior to operation.
2. Verify that all connections are tight. The nozzle stem assembly should not swivel or rotate where attached to the Turbo Blast Valve Trigger, tighten any loose joints.

### WARNING

- If the hose is damaged it can create leakage that could result in a fire hazard.
- If the nozzle stem assembly swivels it will allow leakage that could result in a fire hazard.

3. Inspect LP gas tank for dents, damage to collar, damage to shut-off valve or corroded foot ring. If dents, damage to collar, damage to shut-off valve or corroded foot ring are present, the LP gas tank must be replaced prior to operation.

### WARNING

- If the tank is damaged it could rupture resulting in personal injury and/or property damage.

4. Perform a leak test following instructions on page 7.
5. Ignite the torch according to lighting instructions. Check operation of adjusting valve and all other components prior to proceeding.

Periodically:

1. Remove any debris or combustible materials from torch. The torch must be kept clear and free of combustible materials.
2. The surface of the device should be cleaned with soap and water. Do not use petroleum based or flammable cleaner on any part of the device.

## Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

### DANGER

Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

### WARNING

Warning indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

### CAUTION

Caution indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

### NOTE:

Note indicates important information that if not followed, may cause damage to equipment.

***Read and understand instructions before use!  
Retain this information for future reference.***

### FOR YOUR SAFETY!

If you smell gas:

1. Shut off gas to the device.
2. Extinguish any open flame.
3. Check the device for leaks using soapy water.
4. DO NOT attempt to relight the device until all leaks are repaired and there is no gas smell.

**DO NOT use this device in areas where gasoline or other liquids having flammable vapors are stored or used.**

### WARNING

- Never store a torch that is still hot.

## **CAUTION**

- This device is intended for outdoor use only.
- NEVER direct torch flame toward hose or gas tank.
- DO NOT leave torch unattended while in operation.
- Do not stand or prop the torch on the burner end while in operation.
- Always use integral piezo igniter. Never use a match or lighter to ignite torch.
- DO NOT apply heat or flame to tank to check for leaks or to increase gas pressure.
- DO NOT lift tank by the valve.
- When not in use the gas should be turned off at the LP gas tank(s).
- DO NOT place hand or body part in the path of the flame while lighting or operating torch.
- This device is designed for vapor withdrawal from a LP gas tank(s) ONLY.
- This product produces a flame that can cause other combustible and flammable materials to burn. For example, if using the flame to soften paint on wood, you can damage or even ignite the wood.
- Always wear ANSI-approved safety goggles when assembling and using this product. Long sleeves, gloves and boots are recommended.
- Do not operate this product if under the influence of alcohol or drugs.
- In daylight the torch flame is barely visible. DO NOT place hand or any other body part in the path of the flame while lighting or operating the torch.
- Before use, determine whether any materials that will be heated by the torch will ignite, explode, or produce toxic fumes. DO NOT allow flame or heat to come into contact with any such materials.
- Do not try to enlarge or make any modifications to the nozzle outlet. The nozzle and orifice are precisely matched. Any modification can create the possibility of liquid propane release.
- Before each use, always check fittings and connections to make sure there are no leaks.
- The LP tank must be on a level surface in an upright position. Do not invert or lay tank on its side.
- Have an ABC type fire extinguisher readily accessible at the work site.
- Before each use, check gas hose for wear, cuts, or leaks. If the hose is more than 5 years old (as marked on the hose), replace it.
- Do not attempt to repair. Contact Western for replacement under warranty.
- Be aware that the nozzle of the torch becomes vary hot when in use.

### **NOTE:**

- Place tank on level surface in an upright position. Do not invert or lay tank on its side.
- Gloves should be worn at all times when operating this device. Long sleeves, long pants, and boots are recommended.
- Have an ABC type fire extinguisher readily accessible to the job site.

### **Torch Use:**

1. Point torch at what you want to heat and pull Turbo Blast Trigger to intensify the size of the flame (see Figure 7).
2. Release trigger to bring flame back to minimal level.



**Figure 7**

**NOTE:** If you have the torch gas valve open too high, when you pull the Turbo Blast Trigger, the flame will tend to “blow out” and require reignition.

To control the size of the flame:

1. There is an adjustable brass knob used to limit the distance the Turbo Blast Trigger can move. Turn the valve clockwise for a smaller flame.
2. Turn it counterclockwise for a larger flame.
3. As a safety precaution, these units are equipped with an excess-flow check valve that shut off the gas in the event of a damaged or severed hose. If you allow the flame to grow too large, the excess-flow check valve will automatically shut off gas flow to the torch.

### **Shut-Off Instructions:**

1. To extinguish the flame, close the torch gas flow valve.
2. Close the propane cylinder valve.
3. Open the torch-gas valve briefly to release any residual gas left in the hose.
4. Make certain that torch is completely cooled before storing. The torch nozzle will be very hot. Do not touch it or rest it on anything that can be damaged by heat.
5. Disconnect the POL nut/nipple (located at end of hose assembly) from supply tank by turning clockwise with adjustable wrench.

## Lighting Instructions:

### NOTE:

- The hose assembly is supplied with an excess flow control valve. Opening the supply tank shut-off valve rapidly can cause the valve to close. If the excess flow valve closes, close the supply tank shut-off valve. Open torch adjusting valve to release any residual gas left in the hose. Close torch-adjusting valve and wait 30 seconds. Slowly open tank shut-off valve.

- Be sure the torch gas valve is closed tightly-turn tight clockwise (see Figure 5).
- Open supply tank shut-off valve.
- Conduct leak test as specified on page 7.
- With torch nozzle pointed away from any flammable material, open torch gas valve 1/8 of a turn (until you hear gas flow).
- Press the piezo igniter switch near handle (see figure 6.)
- Adjust flame to a minimal level using the torch gas valve.



Figure 5

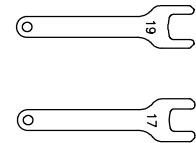
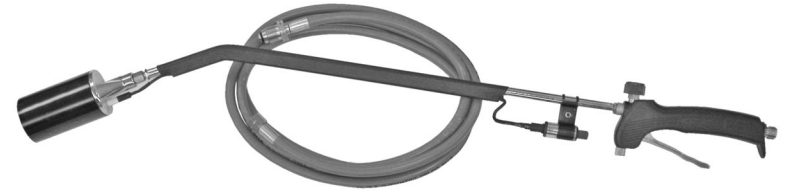


Figure 6

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VENDOR TO REMOVE AREA BELOW DASHED LINE AFTER PRINTING

## WB-100 Hotspotter—Professional Series Parts List



ITEM	DESCRIPTION	QUANTITY
1	Torch Assembly	1
2	Hose Assembly	1
3	17 mm Wrench	1
4	19 mm Wrench	1

### CAUTION:

- Use only genuine Western replacement parts. Never substitute parts. Do not use modified parts.

### OPERATING CHARACTERISTICS

Model	BTU	Operating Temperature Range	Inlet Pressure Range
WB-100	500,000	-10° F to 100° F	17 psi to 170

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VENDOR TO REMOVE AREA BELOW DASHED LINE AFTER PRINTING

## Assembly Instructions:

Unpack all the components and inspect for any damage. If any damage is discovered contact the delivery service or Western Enterprises immediately.

### Hose to torch

With the wrenches provided, assemble gas line to torch handle. Use one wrench to hold torch fitting so it does not turn in the torch handle. Use the other wrench to tighten gas hose fitting onto handle fitting. Turn counterclockwise to tighten. (See Figure 2.)

**NOTE:** This is a left-handed thread connection.



Figure 2

### Connection to the Supply Tank:

#### NOTE:

- The LP (Liquid Petroleum) gas tank used with this device should be no less than a 20 lb. capacity. It should also meet or exceed NFPA 58 "Standard for the Storage and Handling of Liquefied Petroleum Gases".

- Inspect the nut/nipple (excess shut-off valve) connection of the hose assembly. Check for any dents or damage. The o-ring must be present. If damage is found or the o-ring is missing call Western for the proper replacement parts.
- Connect the hose fitting to the shut-off valve of LP gas tank and tighten *counterclockwise*.

**NOTE:** This is a left-handed thread connection. (See Figures 3 and 4.)

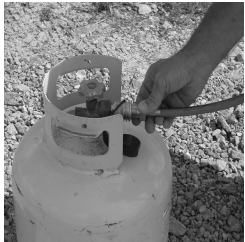


Figure 3



Figure 4

#### CAUTION

- This device is designed for vapor withdrawal from LP gas tank(s) ONLY. Use of any other gas may result in device failure or personal injury.

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VENDOR TO REMOVE AREA BELOW DASHED LINE AFTER PRINTING

### Leak Test:

- Be sure the torch gas valve is closed tightly - turn tight clockwise (see figure 5.)
- Slowly open the supply tank shut-off valve.
- Test all connections for possible gas leaks using leak test solution. (Western #LT-100 leak test solution will dry "clean" and will not harm components.)
- Verify that the torch assembly is properly tightened. (The device should not swivel). If the nozzle or stem should rotate, tighten the connection by the Turbo Blast Trigger until secure.
- If a leak occurs at:
  - Torch-gas valve:
    - Close supply tank shut-off valve, bleed off gas, and retighten connection counterclockwise.
    - Contact Western for the proper replacement parts.
  - Torch-hose connection:
    - Close supply tank shut-off valve, bleed off gas, and retighten connection counterclockwise.
    - Slowly open supply tank shut-off valve and retest connection.
    - Repeat if necessary. (If leakage continues, inspect components for damage.)
  - Supply tank shut-off valve:
    - Close supply tank shut-off valve, bleed off gas, and retighten connection counterclockwise.
    - Slowly open supply tank shut-off valve and retest connection.
  - Torch Assembly: (stem to Turbo Blast Trigger.)
    - Close supply tank shut-off valve, bleed off gas, and retighten connection clockwise.
    - Repeat if necessary. (If leakage continues inspect components for damage.)



Figure 5

#### CAUTION

- DO NOT operate if any leaks are present. A leak may create a fire hazard.
- DO NOT smoke around or expose supply tank(s) to open flames or sparks.
- DO NOT apply heat or flame to tank to check for leaks. Excess heat may cause the supply tank to rupture possibly causing personal injury.

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VENDOR TO REMOVE AREA BELOW DASHED LINE AFTER PRINTING