HOT MAX TORCHES™

BIG MAX®
MODEL 500G
and
JR MAX®
MODEL 100G

INSTRUCTION MANUAL

BIG MAX® AND JR MAX® PROPANE TORCHES
ASSEMBLY, TESTING, AND OPERATING INSTRUCTIONS

PLEASE READ AND RETAIN THIS INFORMATION FOR FUTURE REFERENCE

DO NOT OPERATE this torch unless you have been properly trained or are under the supervision of someone in its proper use. Read and understand all instructions before attempting to use!

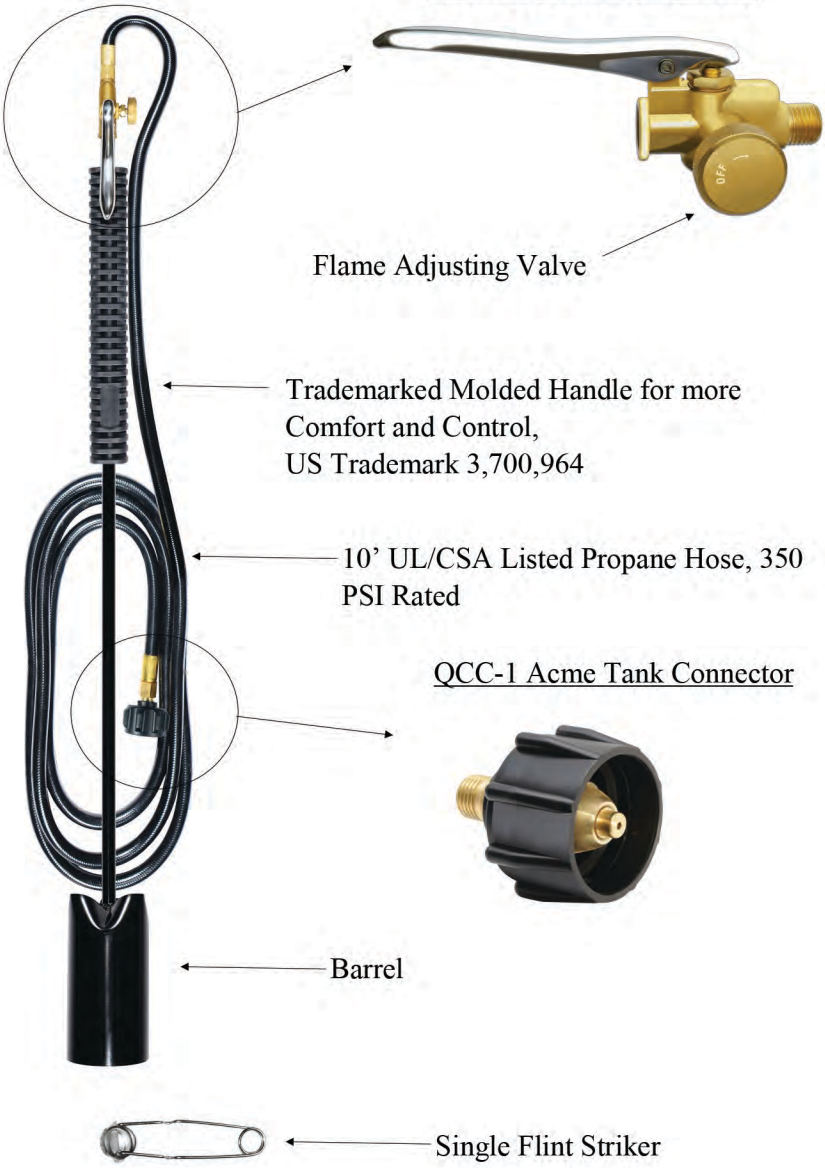
FOR YOUR SAFETY!

- This device is intended for outdoor use only with adequate ventilation.
- This torch is designed for use with a vapor-withdrawal liquid propane (LP) gas cylinder 10 pound size and larger with an OPD valve.
- Eye protection, gloves, proper fire retardant clothing, and boots should be worn when operating the torch.
- NEVER direct torch flame toward hose or propane tank.
- DO NOT leave torch unattended while torch is in operation.
- NEVER point the torch at flammable materials you do not want to burn.
- DO NOT stand or prop the torch on the burner end while in operation.
- DO NOT use matches or a cigarette lighter to light the torch. ALWAYS use a spark lighter.
- Secure LP cylinders in a level, upright position during operation. DO NOT lay tank on its side.
- DO NOT lift propane tank by the valve.
- When not in use, the gas should be turned off at the LP gas cylinder valve. Close the flame adjusting valve as well. When done using torch, disconnect torch from cylinder.
- Have an ABC Fire Extinguisher readily accessible during the operation of the torch.
- DO NOT apply heat or flame to tank, hose, or torch to check for leaks, or to increase the gas pressure.
- CAUTION: In daylight, the flame is barely visible. DO NOT place hands or body parts in the path of the flame while lighting or operating the torch.
- DO NOT use torch in areas where gasoline or other flammable vapors are stored or used.
- CAUTION: The torch barrel becomes very hot when in use. Do not touch barrel or allow it to come in contact with flammable materials until it has completely cooled down.

IF YOU SMELL GAS!

- DO NOT operate torches or any equipment if the odor of LP gas is present.
- IMMEDIATELY shut off all valves and extinguish any open flames.
- Check all equipment for leaks using leak detection fluid or soapy water.
- REPAIR all leaks and test for leaks prior to lighting the torch.

PROPANE TORCH COMPONENTS



ASSEMBLY INSTRUCTIONS

1. Unpack and inspect for damage. DO NOT use torch if damaged.
2. Attach QCC-1 tank connector to LP gas cylinder valve with OPD approved valves. DO NOT USE THREAD COMPOUND! Remember, LP gas cylinder is to be no less than 10 LB. capacity.

3. Make sure the knob on the flame adjusting valve is closed (all the way clockwise) and slowly open the LP gas cylinder valve. Check all LP gas connections for leaks using a leak detection fluid or soapy water. DO NOT attempt to operate the torch if there is any odor of gas.

LIGHTING INSTRUCTIONS

1. IMPORTANT NOTE!!! The QCC-1 tank connector includes an internal POL safety valve (integral flow-check valve). Opening the LP gas cylinder valve rapidly can cause the valve to check and restrict the flow of gas. If the POL flow valve checks, close the LP gas cylinder valve, open the flame adjusting valve on the handle to release any pressure in the hose, reclose the flame adjusting valve on the torch handle, wait 20 seconds, and then slowly open the LP Gas cylinder valve. If NO leaks are found, proceed with lighting the torch.
2. Check all connections for leaks with leak detection fluid or soapy water. Leaks will be indicated by bubbles forming around the source. Repair all leaks and test again before lighting the torch.
3. Open the flame adjusting valve 2-3 turns until the sound of propane gas escaping is heard.
4. Quickly using a flint lighter or other long handle igniting source (NO MATCHES OR CIGARETTE LIGHTERS) ignite the torch. Make sure there is only a minimum amount of gas before lighting. If you do not get the torch ignited quickly, turn off the flame adjusting valve to stop the flow of gas and wait several minutes for the propane gas to disperse. You may then return to step 2 above.
5. Adjust the flame using the flame adjusting valve on the torch handle to the desired size of flame and heat.

Note: Regardless of where the flame adjusting valve is set, depressing the idle boost valve will bypass the flame adjusting valve and provide full flow of propane to the torch so that the torch will burn at maximum output.

TORCH SHUT OFF INSTRUCTIONS

1. Close the LP gas cylinder valve.
2. Allow the gas to completely burn out. After the flame is no longer burning, turn the flame adjusting valve to the closed or OFF position (clockwise).
3. Be careful as the torch head is very hot and takes a long time to cool off.
4. If you are done using the torch for the day, follow the torch disconnection and storage procedures in the next section.

TORCH DISCONNECTION AND STORAGE

1. Be sure the LP gas cylinder valve is turned completely off (clockwise).
2. Disconnect the QCC-1 Acme Tank Connector from the LP gas cylinder.
3. Replace the plastic cover on the LP gas cylinder valve outlet.
4. NEVER attempt to store the torch while it is hot. When the torch is stored indoors or in a garage or shed, it must be disconnected from the tank in accordance with Chapter 5 of ANSI/NFPA 58.
5. Store the torch and hose in a clean, dry and protected area.

TROUBLE SHOOTING

Problem #1 - The QCC-1 Acme Tank Connector will not thread into the LP gas cylinder valve or doesn't seal.

Possible Solutions:

1. Propane cylinders made after 2002 have an OPD valve with internal left handed threads. Make sure you are threading the POL safety valve into the LP gas cylinder valve in the correct direction (counterclockwise to tighten).
2. Check the threads in the LP gas cylinder valve. They might be damaged.
3. If this still doesn't fix it, your QCC-1 Acme Tank Connector might be defective. Contact KDAR Company for a replacement QCC-1 Acme Tank Connector (Model 24218).

Problem #2 - I found a gas leak during my assembly.

Possible Solutions:

1. If the gas is leaking around the LP gas cylinder valve, see Problem #1 above.
2. If the gas leak is near the Idle Boost valve, try tightening the female hose adapter with a wrench to seal the leak.
3. If the hose is leaking either with a hole in the hose or around the brass ferrules, then the hose needs to be replaced. Contact KDAR Company for a replacement hose (Model 24212).

TROUBLE SHOOTING

Problem #3 - The Idle Boost valve is not working.

Possible Solutions:

1. If you can not get full flow out of the torch with the flame adjusting valve all the way open or the Idle Boost valve handle depressed, then the integral POL safety valve (built into QCC-1 Acme Tank connector) has probably detected too much gas flow and restricted the gas flow. To reset the POL safety valve, turn the LP gas cylinder valve completely off (clockwise), then open the flame adjusting valve to release any pressure in the hose (or remove the POL safety valve from the LP gas cylinder and then reinstall), close the flame adjusting valve, and then reopen the LP gas cylinder valve very slowly to keep a lot of gas from entering the hose too quickly and tripping the POL safety valve again.
2. If the flame goes to full flow with the flame adjusting valve all the way open but you can't get full flow with the Idle Boost valve handle depressed, then the Idle Boost valve needs to be replaced. Contact KDAR Company for a replacement Idle Boost valve (Model 24206).
3. If the flame adjusting valve just spins and spins, you might have unseated the valve stem from the valve by accident. To fix this, you need to loosen the nut under the flame adjusting valve knob with an adjustable wrench. Then push the flame adjusting valve knob in towards the valve body while turning clockwise. You should feel the threads "catch" and as you continue to turn, the valve will close all the way. Then retighten the nut under the flame adjusting valve knob (be careful not to over tighten it). If this doesn't work, then the Idle Boost valve needs to be replaced. Contact KDAR Company for a replacement Idle Boost valve (Model 24206).

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1 Year Limited Warranty. See website for more information.

OTHER SAFETY INFORMATION

CSA 2-94	US 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

WARNING! This product may expose you to a chemicals including lead, which is known in the State of California to cause cancer. Wash your hands after using this product. For more information, go to www.P65Warnings.ca.gov.

Thank you for your purchase! We hope you enjoy your torch!

Need a longer hose for your torch? Looking for other great Hot Max accessories for your torch or our other products?

Check out our website for our current product offering.

Hot Max Model 24200
10' LP Extension Hose

Hot Max Model 24201
25' LP Extension Hose

Hot Max Garden Torch
Model GTORCH

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