

Basic Instructions



MAG9000™



1. Valve is installed on oxygen cylinder. Ensure O ring is present on bottom of valve prior to securing valve in cylinder.

Important! Have high pressure gas supplier fill cylinder to 3000 psi.

If high pressure is not readily available, the cylinders can be filled to the lower pressure of 2215 psi. Note lower pressure will shorten the cutting time of the system.



1. Install preset regulator on valve. Ensure regulator is tight. The regulator reduces the oxygen pressure from 3000 psi to 150 psi.



2. Connect one end of oxygen whip hose to the oxygen fitting on the regulator.



3. Connect other end of oxygen whip hose to the quick connect on the bottom of the torch.



4. Install the oxygen cylinder on backpack and secure with the patented rubber straps. The cylinder can be installed upright or inverted.



5. Insert the recessed end of cutting consumable into the collet inside the torch head.



6. Ensure the consumable is secured against the Viton washer in the torch head and the head nut is tight.



7. Slowly open the valve on cylinder one full turn.



8. Squeeze torch lever while adjusting the oxygen pressure with the round brass thumb valve on side of torch handle so approximately ten pounds of oxygen pressure is emitted from the tip of the consumable.

NOTE: The higher the pressure the longer the flame length. Low pressure is for ignition. Use the thumb valve to increase oxygen pressure for cutting.



9. Insert the prongs into the front of the case with the longer prong on the bottom. Turn on the switch. The voltage gauge will illuminate when the unit is turned on. The voltage gauge will also indicate the charge state of the battery. Ensure the battery is fully charged prior to use.



10. With low oxygen pressure flowing through the tip of the consumable, short the tip of the consumable across the two copper ignition plates as shown. Shorting will cause sparks. It takes approximately two seconds for the consumable to ignite. Do not attempt to ignite a consumable without oxygen flowing.

Some notes on ignition:

- A. Oxygen must continue to flow for the consumable to remain lit.
- B. Stopping the flow of oxygen stops the flame.
- C. Excessively high oxygen pressure prevents ignition and damages the plates.
- D. Remove the consumable from the plates immediately after ignition to prevent plate damage.
- E. Adjust oxygen pressure upward after the tube is removed from the plates prior to commencing cutting.
- F. Scrape off any molten residue on the plates with a sharp object between ignitions with the ignition switch turned off.



11. Charging is accomplished with alligator clips attached in the following manner: The unit is wired so the long bottom plate is + positive, and the upper V plate is – negative. Therefore, attach the float charger so the red clip is connected to the tip of the bottom plate and the black clip is attached to the upper plate. Ensure the clips do not come into contact with one another or they will short out the charger. The unit must be turned on for charging to take place. Note: The float charger not only charges the battery, it also maintains the battery when the unit is not in use. DO NOT store the ignition system in a discharged state. NEVER completely discharge the ignition system during use. Never ignite consumables with the charger connected.

Watch the operating video posted on the video page at our website

<http://www.magnumusa.com> for additional information. If you have technical questions, call 1-800-957-4344 or 760-868-6748.