

ARCTIC HAYES

BRAZING TORCH



SAFETY WARNING:

DO NOT ATTEMPT TO REPAIR OR ADJUST THE INTERNAL WORKINGS OF THE TORCH. TAMPERING COULD CAUSE GAS LEAKAGE. THIS ACTION WILL VOID THE PRODUCT WARRANTY.

Instruction and Safety Manual

Thank you for purchasing the Vortex Brazing Torch. This manual contains important safety information and instructions for use. Please read this manual carefully and store in a safe place for future reference.

General Safety Information

- **CAUTION:** torch ignites INSTANTLY.
- The use of protective goggles, gloves and flame proof clothing is recommended.
- Keep out of the reach of children.
- Always point the torch away from yourself.
- DO NOT point the torch towards other people or flammable objects.
- DO NOT use the torch to check for gas leaks.
- When not in use, disconnect the torch from the gas cylinder.
- Torch is designed to be used with Mixed Gases and Propane Gas.
- DO NOT use a torch that is known to be damaged or to leak.
- Ensure work areas are well ventilated and use respiratory protection when working with potentially toxic materials.
- Avoid contact of flux with eyes and skin.
- During use, the tip of the torch can get extremely hot. Take care to prevent accidental burns.
- When connected to a cylinder, ensure the torch is placed on a level surface.
- Always keep a fire extinguisher close at hand.
- Keep combustible materials away from the work area.
- Use a heat shield to protect the surrounding area.

Super Cyclone Flame

Cyclone Flame

Fine Flame

For a more concentrated high temperature flame use the cyclone burner tube. For a highly concentrated precision flame, use the fine flame burner tube. To change burner tubes, follow the instructions below.

Changing Burner Tubes

- Whilst holding the torch, twist the burner tube 45° anti-clockwise then pull up to release.
- Place the new burner tube into the torch. Push down and twist the tube 45° clockwise to secure.
- There are 4 locating lugs on the burner tubes.
- The maximum rotation of the burner tube is 45°.
- Trying to force rotation further than this can break the tube.
- Please ensure lugs are located respectively to torch body.
- NOTE: Burner tube tips are not interchangeable and doing so may cause ignition failure.

Instructions for Use

Always use with a high quality gas. For optimum performance, use Vortex Map-X or Propane gas. To attach the torch to the cylinder, hold the torch and gas cylinder upright and turn the gas cylinder clockwise into the torch valve body until hand tight.

Switch the safety lock to "Unlock". To light the torch, turn the flame regulator anti-clockwise about half a turn and press the ignition trigger.

For a continuous flame press the flame lock down whilst holding the ignition trigger. This can be stopped by pressing the trigger again, disengaging the flame lock.

Turn the flame regulator to obtain the required flame length and intensity.

To extinguish the flame, release the ignition trigger.

To disconnect the torch, turn the gas cylinder anti-clockwise. Ensure this is carried out in a well ventilated area, away from any flame or source of ignition.

When disconnected, press the ignition trigger several times to purge the torch of any remaining fuel.

Before storing, make sure the torch is cool and the flame lock is switched to "Lock".



- 1 Interchangeable Burner Tube
- 2 Flame Lock
- 3 Flame Regulator
- 4 Ignition Trigger
- 5 Safety Lock
- 6 Tough Aluminium Body
- 7 Standard CGA600 Thread

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Troubleshooting Problems & Solutions

Problem	Possible Causes	Solutions
Torch will not light	Empty fuel cylinder	Replace fuel cylinder
	Pressing the ignition trigger too rapidly	Press the trigger slowly and steadily
	Excessive moisture	Remove the burner head and allow torch to dry
	Blocked burner tube	Replace burner tube
Burner head glows or overheats	Blocked burner tube tip	Remove tip, tap out any debris & re-assemble
	Fuel cylinder nearing empty	Replace fuel cylinder
Unstable flame	Extreme ambient air conditions (wind)	Avoid areas with extreme ambient conditions

GUARANTEE

ARCTIC HAYES LTD GUARANTEES THE VORTEX BRAZING TORCH FOR A PERIOD OF 12 MONTHS FROM THE DATE OF PURCHASE, TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP.

PROVIDED IT OCCURS UNDER NORMAL USE AND SERVICE, WE WILL DURING THIS PERIOD, REPAIR OR REPLACE ANY PRODUCT FOUND TO BE DEFECTIVE IN MATERIALS OR WORKMANSHIP.

THIS GUARANTEE DOES NOT COVER NORMAL WEAR AND TEAR AND ARCTIC HAYES LTD WILL BE UNDER NO OBLIGATION TO REPAIR OR REPLACE PRODUCTS FOUND TO BE DEFECTIVE DUE TO DAMAGE, MISUSE, NEGLIGENCE, UNREASONABLE USE OR FOUND TO HAVE BEEN DISMANTLED OR TAMPERED WITH.

SHOULD A PROBLEM ARISE WITH THE PRODUCT, PLEASE CONTACT THE ARCTIC HAYES HELPLINE ON +44 (0)113 271 5245