

# VULKAN P200/K/KS

## INSTRUCTIONS FOR USE

### 1.0 SAFETY PRECAUTIONS.

- The instructions must be read carefully before the device is used. The brochure must be stored and kept ready for possible reference.
- 1.1 Your Vulkan Iron is a quality tool, not a toy. Please keep it out of the reach of children.
  - 1.2 Your Vulkan Iron contains butane gas under pressure. Keep away from direct heat and out of direct sunlight. A device which has visible damage must not be operated, on any account. The assembly and set-ups which were carried out by the manufacturer must not be modified. It is dangerous to carry out any unauthorised constructional modifications on the device, to remove parts or to use other parts than those permitted by the manufacturer.
  - 1.3 DO NOT puncture the body of your Vulkan Iron and do not place it in a fire or naked flame.
  - 1.4 DO NOT use in confined spaces.
  - 1.5 DO NOT drop or cause hard shocks to unit or expose to temperatures in excess of 50°C (120°F).
  - 1.6 When you fill or operate your Vulkan Iron, ensure that you are not near other naked flame or materials which are combustible.
  - 1.7 Before filling with butane gas, ensure that your Vulkan Iron is switched off.
  - 1.8 For best results, use only branded quality butane gas. If the tool is found to be leaking, switch off and place in an open, well ventilated area until empty. Return to purchase outlet.
  - 1.9 Point your Vulkan Iron away from your body and face when igniting or filling.
  - 1.10 After ignition, the tip of your Vulkan Iron becomes hot very quickly, do not touch with unprotected fingers.
  - 1.11 Ensure that the tip of your Vulkan Iron is cool before removing or replacing it.
  - 1.12 Do not leave your Vulkan Iron unattended while it is in the operating mode.

### 2.0 FILLING

- 2.1 Ensure your Vulkan Iron is switched off.
- 2.2 Hold your Vulkan Iron vertically with the tip (A) pointing downwards and the filler-valve (B) uppermost.
- 2.3 Introduce the adapter of the gas refill cylinder into the filler valve (B) and press the cylinder vertically downwards. If you hold the Vulkan Iron up to a bright background you can observe the fill level through the translucent tank (C). As soon as the unit is full, liquid gas will overflow from the filler valve (B). Leave for 5 minutes to stabilise.

### 3.0 OPERATING: AS A SOLDERING IRON

- 3.1 Point the tip end of your Vulkan Iron away from your face and body. Ensure that the red max/min  $\pm$  gas flow control is positioned at the max. (+) position of its travel (Fig 2).
- 3.2 Push the black on/off slider switch forward until you can hear gas being released to the tip.
- 3.3 Push the 'on/off' slider (G) switch to the end of its travel. This will ignite the gas.
- 3.4 Release switch back to 'gas on' position. Ignition of the gas is confirmed when an orange glow can be seen.
- 3.5 Adjust gas flow (F) control to mid. position. This position will give satisfactory temperatures for most soldering jobs and conserve gas usage. Maximum gas usage 12g/h.
- 3.6 To switch off and stop the gas flow, push the 'on/off' switch down (away from the tip) this will stop the supply of gas to the tip. Alternatively, replacement of the black cap will automatically push the black on/off control to the 'off' position. Any hot air will escape from the vent hole in the end of the cap. When replacing the cap, ensure that it does not come into contact with the hot tip.

### 4.0 AS A GAS TORCH TOOL

Remove the locking ring and tip assembly (see 6.1/6.2 below), remove tip and refit locking ring, repeat operating actions as 3.1-3.3 above. The gas torch can be ignited by pushing the black 'on/off' slider switch to the end of its travel and release switch to the 'on' position.

### 5.0 AS A HOT AIR TOOL

- 5.1 Remove the locking ring and tip assembly (see 6.1/6.2 below). Fit hot blow attachment VP 10 or VP 12 and tighten in place with sleeve and locking ring. Repeat ignition sequence (see 3.2/3.3)

### 6.0 TIP REPLACEMENT

#### DO NOT FILE TIPS

- 6.1 Grip the locking ring (E) by hand and turn it anti-clockwise to remove it and the outer sleeve (Fig 1).
- 6.2 If the tip assembly is hot, remove it with smooth jaw pliers by gently gripping the tip end and sliding the assembly away from the tool.
- 6.3 Place any hot tips into an open metal tray, or similar, to prevent damage to a surface or to the tip. To fit a new tip reverse

## 7.0 REPLACING NOZZLE

- 7.1 Fit new nozzle (VP-14) if nozzle is clogged or if white ceramic insulator is broken (Fig 2)
- 7.2 Grip locking ring (E) by hand and turn it anti-clockwise to remove ring and outer sleeve (Fig 1.)
- 7.3 To change nozzle, insert suitable size pin in hole (H) taking care not to damage copper electrode (J) and turn anti-clockwise to remove. (Fig 2)
- 7.4 To fit new nozzle reverse actions 7.2 and 7.1. Note: do not over tighten nozzle assembly.

## 8.0 FAULT FINDING

Fault	Cause	Action
Does not ignite.	Tank empty. Adjuster incorrectly set. Soldering Iron too cold Loose ceramic	Refill tank. Set adjuster to Max (+). Warm Gas Tank (C) in hand. Tighten ceramic
Clogged nozzle	Replace with new nozzle VP-14	
Tip ignites but glow is intermittent. Gas flow appears to be pulsing, not smooth.	Gas setting too high	Reduce gas flow by adjusting towards (-) minus
Tip does not heat up.	Used up catalyst.	Replace with new tip.
Reduced gas flow at maximum setting	Too low a vapour pressure Ref F: Insert pin into recess of adjuster and move pin 2mm to right	Ref. "F"

**HINTS:** Some of the above symptoms may occur if your Vulkan Iron has been stored in very cold conditions or if you have just filled the unit with Butane Gas. Before igniting, warm the Tank and Housing (C/D) of your Vulkan Iron in your hand, for about 1 minute.

