KENNEDY®
QUALITY INDUSTRIAL TOOLING

MODEL BS125
ORDER CODE KEN-516-9300K

BUTANE SOLDERING TOOL



- Cordless and refillable.
- Uses standard butane lighter fuel.
- Equal to 25-125W.
- Temperature range 580°C.
- Can also be used as a blow torch.

INSTRUCTION MANUAL

www.kennedy-tools.co.uk

SAFETY GUIDELINES

- Always use with care. Your soldering iron contains flammable gas under pressure.
- Always keep out of the reach of children.
- Always refill with a high quality butane cigarette lighter fuel. No other fuel type should be used.
- Always ensure the flame is extinguished before putting down. **Caution:** Hot gases 580°C (1,075°F) are emitted from the exhaust port.
- Always ignite the soldering iron with the tip pointing away from face and body. Excessive gas flow, flaming or the catalyst pulsing red to black may occur when igniting or when the regulator is set too high.
- Always allow the tip to cool sufficiently before touching.
- Always ensure that you are in a well ventilated area. This product, when used for soldering and similar applications, produces chemicals. Never inhale vapours from fluxes, plastics, foams etc.
- Always dispose of in accordance with local regulations.
- Never leave unattended.
- Never drop.
- Never use if the soldering iron is damaged.
- Never expose to heat above 50°C (120°F) and avoid prolonged exposure to the sun.
- Never puncture or incinerate.
- Never refill, ignite or use near flame or combustible materials.
- Never replace cap without first switching off and ensuring the tip has cooled.
- Never attempt to dismantle, readjust or repair. The soldering iron is not user serviceable.
- Never "carry on" or "check in" baggage containing this item without confirming with the airline first that this is acceptable.

TECHNICAL SPECIFICATION

Length (with cap):	230mm
Weight (no gas, with cap & tip):	143g
Operating Time (depending on setting):	60 mins
Wattage (equivalent):	25-125W
Refill time (typical):	10 seconds
Gas refill type:	Butane lighter fuel
Ignition:	Piezo igniter
Igniter life (typical):	50,000 cycles
Safety cut-off switch:	Yes
Temperature adjustable:	Yes
Approval:	TUV

Tip temperature (up to)

Soldering:	580°C
Blow torch (not included):	1,300°C
Hot air tip (not included):	625°C
Hot knife (not included):	580°C

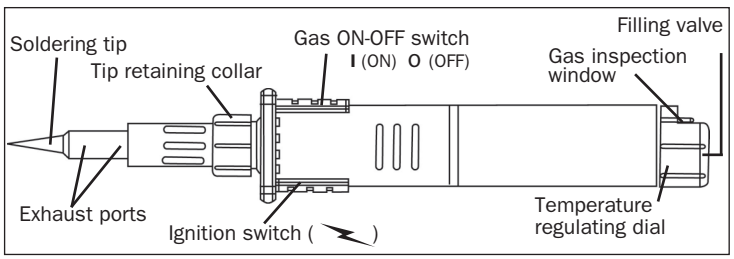


Fig. 1

GAS FILLING

Fill only in a well ventilated area.

The soldering iron runs on butane gas such as used with ordinary cigarette lighters. A small amount of liquid gas should be visible through the gas inspection window, gas vapour alone will not generate sufficient pressure. Do not overfill.

- Make sure the on/off switch is in the "**O**" (off) position before filling.
- Hold unit vertically with the filling valve upwards. Push the gas re-fill cylinder down onto the filling valve. The flow of gas from the re-fill cylinder to the soldering iron depends on gravity (See fig. 2).

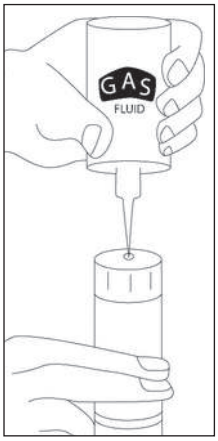


Fig. 2

CHANGING THE TIPS

Tips are easily removed or installed, by unscrewing the tip retaining collar and sliding the tip, tip retaining tube off the front end burner. Replace the tip and reassemble in the reverse order (See fig. 3).

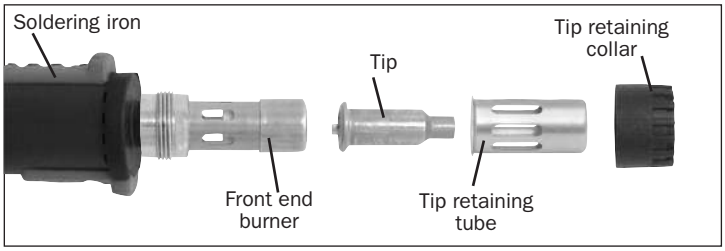


Fig. 3

IGNITION SEQUENCE

The unit is ignited by a piezo-electronic system. The gas "on/off" switch is marked I-0. The ignition switch is marked with a " ".
N.B. Only one 2.4mm soldering tip is provided with this soldering iron.

- **Soldering, hot air, hot knife:** Fit tip of choice and secure with retention sleeve/collar. Turn temperature regulator button to Max. setting. Hold away from face and body and push the gas switch toward the tip, this will release the gas. 'Click back' on piezo ignition switch and allow to return while still maintaining light thumb pressure on the switch, this enables the gas flow interrupt to extinguish the ignition flame, and allows the catalyst to assume combustion control. A glowing catalyst, in the exhaust port, will confirm correct operating mode.
- **Blow torch:**
  N.B. Flame is difficult to see under certain lighting situations. Remove only the tip. Turn temperature regulator to mid setting. Turn gas on as above. 'Click back' on piezo ignition switch and quickly release (the internal spring will provide sufficient speed). If the speed of return of the piezo switch is slowed slightly by finger pressure, the gas flow interrupt mechanism may extinguish the flame. Experience will dictate.
  Set low to medium settings as the flame may "blow itself out' at high gas flow.
- **To Switch off:** Push the gas switch away from the tip "**O**" (OFF).

TEMPERATURE ADJUSTMENT

- The tip temperature can be set as required by turning the temperature regulating dial. The housing is marked with −◀▶+ for orientation purposes (See fig. 4). You can determine the ideal setting by trial soldering a joint, as components have varying properties. It is not necessary for the tip to glow bright red to achieve satisfactory soldering temperatures.

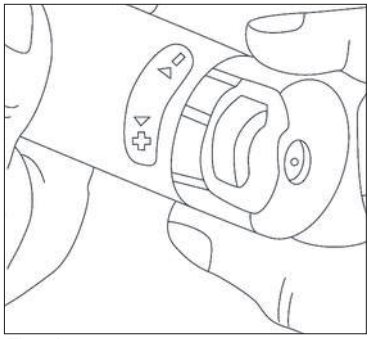


Fig. 4

SPARE PART REPLACEMENT

CAUTION: Allow the soldering iron to cool down completely. The gas switch must be in the "off" position. Remove the tip retaining collar, the tip retaining tube and the tip as before.

- **Front end burner replacement:** Remove the retaining screw using a 1.5mm (1/16") allen key. Note position of retaining screw relative to alignment mark on iron. Unscrew the front end burner using, if necessary, a 13mm (½") spanner, ensure old insulation is removed and fit new insulation onto gas jet venturi. Fit new burner tightening until the retaining screw holes are aligned - inline with alignment mark. Lock in place by re-engaging the retaining screw. Do not over-tighten (See fig. 5).

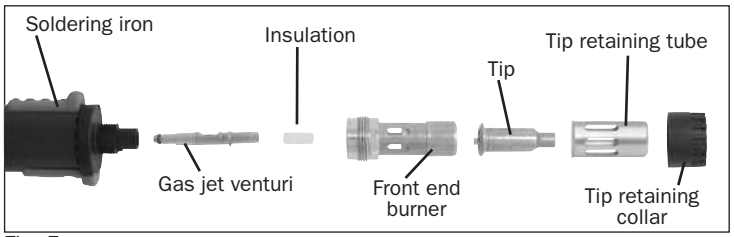


Fig. 5

- **Gas jet venturi replacement:** Remove front end burner as before. Remove the gas jet venturi by pulling it directly out from the soldering iron. Replace with new gas jet venturi, aligning its flats with the corresponding flat in the bore of the iron. Fit new insulation onto the gas jet venturi ensuring, where applicable, that old insulation is removed from front end burner before replacing. Replace the front end burner as before (See fig. 5).

SAFETY STAND

- Always use the integral stand to rest the iron on (See fig. 6).



Fig. 6

ACCESSORIES

Tips are available as accessories from your local distributor. The tip marked with an asterix is included with your soldering iron. (See fig. 7).

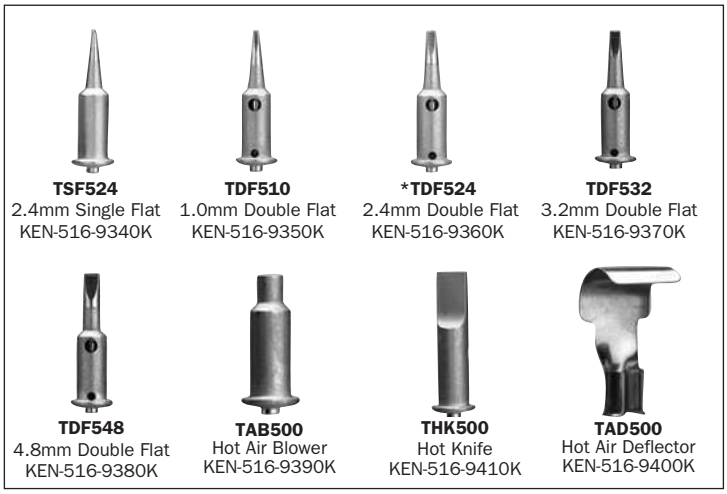


Fig. 7



QUALITY GUARANTEE & WARRANTY

KENNEDY TOOLS carry a one year manufacturers warranty.
KENNEDY TOOLS are designed & manufactured to the highest standards & specifications.
Assuring the quality and performance required by all sectors of industry.
KENNEDY TOOLS are fully guaranteed against faulty materials & workmanship.
Should they be found to be defective, they will either be repaired or replaced free of charge (fair wear and tear and/or misuse excepted).
This does not affect your legal rights.
Please retain supplier invoice as proof of purchase.

AVAILABLE FROM YOUR DISTRIBUTOR

Kennedy Tools continually strives to improve its products. Specifications may change without prior notice.

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