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FEIFANKE WP-17V

FEIFANKE WP-17V TIG Welding Torch Instruction Manual

Model: WP-17V

1. PRODUCT OVERVIEW

The FEIFANKE WP-17V TIG Welding Torch is an air-cooled Lift TIG welding torch designed for various welding applications. It features a 3-meter (13 FT) gas hose for extended reach, high-ductility copper wire for superior electrical conductivity, and an ergonomically designed handle for comfortable operation. This torch is compatible with a range of mainstream TIG welding machines, including FEIFANKE MIG135, MIG145, MIG250, ARC200, and 140mini models.



Figure 1: Complete FEIFANKE WP-17V TIG Welding Torch assembly, including the torch head, 13-foot hose, and various connectors and consumables.

2. COMPONENTS AND PACKING LIST

The WP-17V TIG Welding Torch comes with the following components:

- 1 x WP-17V TIG Torch with 3-meter (13 FT) holster and 15mm gas cylinder connector
- 1 x 10-25mm² Quick Connector
- 1 x 35-50mm² to 10-25mm² Adapter
- Ceramic Nozzles (sizes 4, 5, 6)
- 1 x 1.6mm Collet
- 1 x 2.4mm Collet

- 1 x 3.2mm Collet
- 1 x Collet Body
- 1 x Long Back Cap
- 1 x Short Back Cap



Figure 2: Detailed view of the torch components, illustrating ceramic cups (#4, #5, #6), collets (1/16", 3/32", 1/8"), collet body, short back cap, and long back cap.

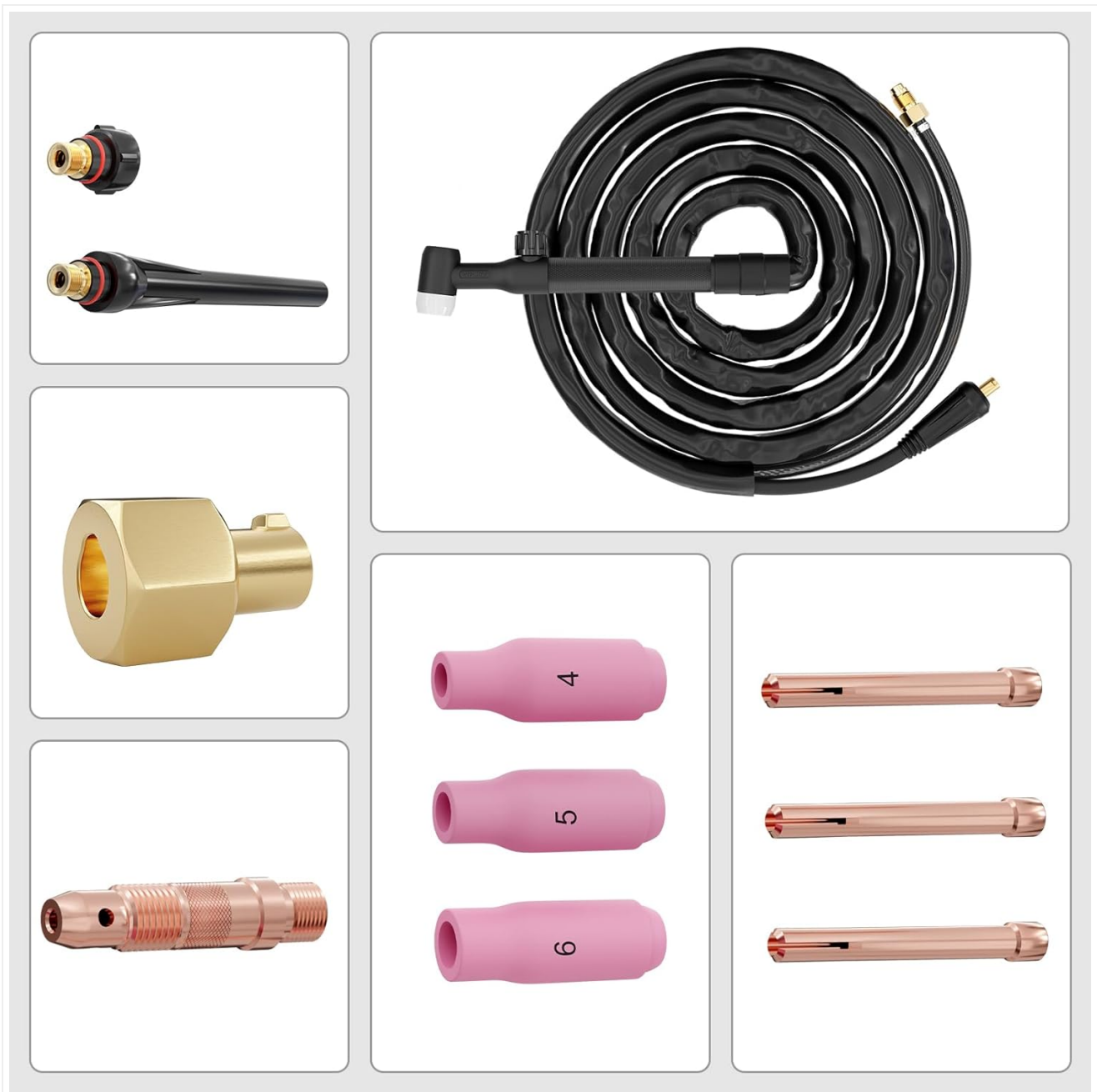


Figure 3: Overview of all included parts, showing the torch assembly, various ceramic nozzles, collets, collet body, and quick connectors.

3. SETUP AND INSTALLATION

Follow these steps to set up your WP-17V TIG Welding Torch:

1. Assemble the Torch Head:

- Insert the appropriate collet (1.6mm, 2.4mm, or 3.2mm) into the collet body.
- Screw the collet body assembly into the torch head.
- Insert the tungsten electrode through the ceramic nozzle and into the collet.
- Screw the ceramic nozzle onto the torch head, ensuring the tungsten protrudes correctly.
- Attach either the long or short back cap to secure the tungsten electrode.

2. Connect to Welding Machine:

- Connect the 15mm gas cylinder connector of the torch to your welding machine's gas outlet.
- Utilize the 10-25mm² quick connector for the power connection.

- If your welding machine requires it, use the provided 35-50mm² to 10-25mm² adapter for compatibility.

For a visual guide on assembling the torch head, please refer to the instructional video below.



Video 1: Demonstration of assembling the FEIFANKE WP-17V TIG Torch components, including inserting the collet, collet body, tungsten electrode, and ceramic nozzle.

**AIR HOSE
3M/10FT**



FLEXIBLE AND CONVENIENT



**EXTERNAL THREAD
15MM**



**QUICK CONNECTOR
10-25MM²**



**QUICK CONNECTOR
35-50MM² TO 10-25MM²**

Figure 4: Illustration of the 3-meter (10 FT) air hose and the quick connectors (15mm external thread, 10-25mm² quick connector, and 35-50mm² to 10-25mm² adapter) for flexible and convenient setup.

4. OPERATION

The FEIFANKE WP-17V TIG Torch is designed for Lift TIG welding. Ensure your welding machine is set to Lift TIG mode for optimal performance. The ergonomic handle with a diamond pattern provides a high grip and optimal feel, reducing fatigue during extended welding sessions.

4.1. Electrode Selection

Select the appropriate tungsten electrode size (1.6mm, 2.4mm, or 3.2mm) based on your welding current and material thickness. Ensure the electrode is properly sharpened for precise arc control.

4.2. Compatibility

This torch is compatible with a wide range of TIG welding machines. Specifically, it is suitable for FEIFANKE MIG135, MIG145, MIG250, ARC200, and 140mini models. The included adapters ensure broad compatibility with mainstream TIG welding machines on the market.



Figure 5: The WP-17V TIG torch shown connected and compatible with FEIFANKE ARC140 and MIG135 welding machines.

GOOD ELECTRICAL CONDUCTIVITY

- ✓ Good Ductility
- ✓ Corrosion Resistance
- ✓ High Output



Figure 6: Illustration of the 8mm² high purity copper wire, emphasizing its multi-stranded interwoven cable design for low conductor resistance, high load capacity, good ductility, corrosion resistance, and strong output performance.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your TIG welding torch:

- **Inspect the Hose and Connections:** Periodically check the 3-meter air hose and all connectors (15mm gas cylinder connector, 10-25mm² quick connector, and 35-50mm² to 10-25mm² adapter) for any signs of wear, damage, gas leakage, or clogging. The rubberized leather cord cover provides excellent heat and abrasion resistance, but inspection is still crucial.
- **Clean Consumables:** Regularly clean or replace ceramic nozzles, collets, and collet bodies as they can accumulate spatter and affect arc stability.
- **Tungsten Electrode:** Ensure your tungsten electrodes are clean and properly ground before each use.
- **Torch Body:** Keep the torch body clean from dust and debris. The diamond pattern on the handle is designed for grip and should be kept free of grease or dirt.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your TIG welding torch:

Problem	Possible Cause	Solution
Torch becomes excessively hot during use.	Prolonged use at high amperages; insufficient cooling; restricted gas flow.	Reduce welding duration or amperage; ensure proper gas flow; allow adequate cool-down periods between welds. Consider using a fan to aid cooling if working in a confined space.
Poor arc stability or inconsistent weld quality.	Contaminated or improperly ground tungsten electrode; worn or incorrect ceramic nozzle/collet; insufficient shielding gas flow.	Inspect and regrind or replace tungsten electrode; replace worn ceramic nozzles or collets; check gas connections and flow rate.
Gas leakage or poor shielding.	Loose connections; damaged gas hose; clogged gas passages.	Tighten all gas connections; inspect the gas hose for damage and replace if necessary; check for and clear any blockages in the gas passages.
Difficulty connecting to certain welding machines.	Incompatible quick connector or gas line fitting.	Ensure you are using the correct 10-25mm ² quick connector or the 35-50mm ² to 10-25mm ² adapter. Some machines may require minor modifications to their gas line quick disconnects (e.g., swapping crimped clamps).

7. SPECIFICATIONS

- **Model:** WP-17V
- **Torch Type:** Air-Cooled Lift TIG Torch
- **Hose Length:** 3 meters (approx. 13 FT)
- **Quick Connector:** 10-25mm²
- **Adapter:** 35-50mm² to 10-25mm²
- **Electrode Size Compatibility:** 1.6mm, 2.4mm, 3.2mm
- **Copper Wire:** 8mm² high purity, multi-stranded interwoven cable
- **Gas Cylinder Connector:** Standard 15mm
- **Item Weight:** Approximately 2.88 pounds
- **Package Dimensions:** Approximately 11.5 x 10.31 x 2.4 inches
- **Power Source:** AC/DC compatible (depends on welding machine)
- **Manufacturer:** FEIFANKE

8. WARRANTY AND SUPPORT

For any questions regarding your FEIFANKE WP-17V TIG Welding Torch, including warranty information or technical support, please contact FEIFANKE customer service directly. Refer to the product packaging or the official FEIFANKE website for contact details.

You can also visit the official FEIFANKE store for more information and related products: [FEIFANKE Store](#)

