

FLARING FM175D

FLARING FM175D 6-in-1 Multiprocess Welder User Manual

Model: FM175D

1. INTRODUCTION

This user manual provides essential information for the safe and effective operation of your FLARING FM175D 6-in-1 Multiprocess Welder. Please read this manual thoroughly before operating the machine to ensure proper usage, maximize performance, and prevent potential hazards. Keep this manual for future reference.



Figure 1: FLARING FM175D Multiprocess Welder and included accessories.

2. KEY FEATURES

- **UPGRADED MIG WELDER & EXCLUSIVE LARGE LED DISPLAY:** Designed with an intelligent LED screen, the FM175D provides you with an accurate data display and more options to help you take easier and clearer readings without removing your helmet. Exclusive design, simple operation, easy to use.
- **6-IN-1 MULTIPROCESS WELDER:** The multi-process welding machine that included Gas/Solid Wire MIG(GMAW), Gasless Flux Core MIG(FCAW), Stick/MMA, Spot welding, Lift TIG, spool gun connector optional (tig gun and spool gun not included). Suitable for all kinds of welding requirements .023"/.030"/.035" solid wire, .030"/.035"/.040" flux core wire, .035"/.040" aluminum wire. Arc Welding fits rods E7018, E6013.
- **SYNERGIC CONTROL, ONE BUTTON OPERATION:** This FM175D welders can automatically match current and voltage after the diameter of the welding electronic is selected, which is ideal for beginners to learn welding; You can adjust the current as your need, it's also perfect for professionals. With one-touch easy adjustment of preset work modes, everyone can be a welding expert. MORE EFFICIENT.
- **ADVANTAGES:** The FM175D is designed with a wide voltage range of 100V-260V, ensuring it can handle voltage fluctuations without any issues. It comes with an American standard L6-50P power cord plug and includes a 240V to 120V adapter cable, making it convenient to switch between different work

environments. Furthermore, the inner cover of the chassis provides detailed welding parameter guidelines, along with official authoritative recommendations, addressing all your concerns.



Figure 2: Overview of the 6-in-1 multi-process welding capabilities.

3. PACKAGE CONTENTS

Upon opening the package, verify that all the following items are included:

- 1 x FLARING FM175D Welder
- 1 x 8.3ft Air hose with quick-fit couplings
- 1 x 10ft MIG Torch
- 1 x 6.6ft Ground Clamp
- 1 x 6.6ft Electronic Holder
- 1 x .030"/1.1 lbs Flux Cored Wire
- 2 x 0.8/.030" conductive Nozzle
- 1 x 0.9/.035" conductive Nozzle
- 2 x 1.0/.040" conductive Nozzle
- 2 x Ceramic nozzle

- 2 x Wrench
- 1 x 20cm conversion line (220V to 110V)
- 2 x Wire feed wheel (.030"/.035" & .030"/.040")
- 1 x English User Manual

Your browser does not support the video tag.

Video 1: Unboxing and overview of the FLARING FM175D Welder and its included accessories. This video also demonstrates the various welding modes.

4. SAFETY INFORMATION

WARNING: Welding can be dangerous. Always follow safety precautions to prevent injury or death.

- Always wear appropriate personal protective equipment (PPE), including a welding helmet with proper shade, flame-resistant clothing, welding gloves, and safety shoes.
- Ensure adequate ventilation to avoid inhaling welding fumes.
- Protect bystanders from arc rays and hot metal.
- Disconnect power before servicing or changing parts.
- Do not weld near flammable materials.
- Ensure the welding machine is properly grounded.
- Be aware of electrical shock hazards.



Figure 3: The FM175D features multiple safety protections including over voltage, over current, overload, and overheating protection, along with efficient heat dissipation.

5. SETUP

5.1 Power Connection

The FM175D supports dual voltage input (110V/120V and 220V/240V). It comes with an American standard L6-50P power cord plug and includes a 240V to 120V adapter cable for versatile use in different work environments. Connect the appropriate power cable to a suitable power outlet.

5.2 Wire Feed Structure

The welder features a stable and smooth wire feed mechanism. Refer to the diagram below for component identification:

1. Welding Wire (2.2lbs / .023")
2. Automatic Wire Feed
3. Wire Pressing Wheel

4. Wire Feeding Wheel



Figure 4: Detailed view of the wire feed structure for stable and smooth wire delivery.

Install the welding wire onto the spool holder and thread it through the wire feed mechanism according to the instructions provided on the inner cover of the chassis.

6. OPERATING INSTRUCTIONS

The FM175D offers multiple welding modes. Use the intelligent LED display and control knobs for precise adjustments.



Figure 5: The large LED display provides accurate data and easy readability for various welding modes.

6.1 Mode Selection and Synergic Control

The welder features synergic control, automatically matching current and voltage once the welding electronic diameter is selected. This simplifies operation for beginners while allowing professionals to fine-tune settings as needed. Use the mode selection button to switch between the following welding processes:

- **Gas/Solid Wire MIG (GMAW):** For welding with shielding gas and solid wire.
- **Gasless Flux Core MIG (FCAW):** For welding with flux-cored wire without external shielding gas.
- **Stick/MMA:** For manual metal arc welding with coated electrodes.
- **Lift TIG:** For TIG welding (TIG gun not included).
- **Spot Welding:** For precise spot welds.
- **Spool Gun Connector Optional:** For use with a spool gun (not included), typically for aluminum welding.

The inner cover of the chassis provides detailed welding parameter guidelines and official authoritative recommendations for each mode.

MULTI-FUNCTION WELDER

MAKES EASY WELDING AVAILABLE TO EVERYONE




Intelligent high
-speed cooling fan


Safety
and stability


Low noise

Suitable Welding Material



Carbon steel

Stainless steel

Iron

Aluminum

Figure 6: The multi-function welder is suitable for various materials including carbon steel, stainless steel, iron, and aluminum.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your welding machine.

- Keep the machine clean and free from dust and debris. Use compressed air to blow out internal components periodically.
- Inspect all cables and connections for wear or damage before each use. Replace any damaged parts immediately.
- Check the wire feed mechanism for proper alignment and cleanliness.
- Ensure the cooling fan is unobstructed and functioning correctly to prevent overheating.
- Store the welder in a dry, clean environment when not in use.

8. TROUBLESHOOTING

If you encounter issues with your FLARING FM175D welder, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No power to the machine	Power cord unplugged, circuit breaker tripped, faulty power switch.	Check power connections, reset circuit breaker, contact support if switch is faulty.
No arc/poor arc stability	Improper grounding, incorrect settings, worn consumables, wrong wire/electrode.	Ensure proper ground clamp connection, adjust settings, replace worn nozzles/tips, use correct welding material.
Wire feeding issues	Tangled wire, incorrect wire tension, clogged liner, wrong drive roll size.	Untangle wire, adjust tension, clean/replace liner, ensure correct drive rolls are installed.
Overheating protection activated	Exceeded duty cycle, poor ventilation, blocked fan.	Allow machine to cool down, ensure proper airflow, clear any obstructions from fan.

For more complex issues, please refer to the detailed troubleshooting section in the included English User Manual or contact FLARING customer support.

9. SPECIFICATIONS

Specification	Value
Manufacturer	FLARING
Part Number	FM175D
Item Weight	10.78 pounds
Product Dimensions	13.8 x 6 x 7.4 inches
Item Model Number	FM175D
Size	Medium
Color	White
Pattern	MIG Welder-4EN-175A-120/240V
Power Source	AC
Voltage	120-240 Volts






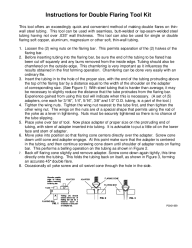


Figure 7: Physical dimensions and net weight of the FM175D welder.

10. WARRANTY AND SUPPORT

FLARING offers a **full 2-year warranty** on this product, along with 53 days hassle-free returns. For any questions, technical assistance, or warranty claims, please contact FLARING customer support through the official channels provided in your product packaging or on the FLARING website. Choose FLARING, JUST STITCHING WITH FIRE.

© 2023 FLARING. All rights reserved.

	<p>PARKSIDE Tube Flaring Tool: Instructions and Warranty</p> <p>A comprehensive guide to using the PARKSIDE tube flaring tool for creating single and double flares. This document provides step-by-step instructions, details on preparation, operation, and warranty information, ensuring proper use and maintenance of the tool.</p>
	<p>NAVAC NEF6LM BreakFree® Power Flaring Tool User Manual</p> <p>User manual for the NAVAC NEF6LM BreakFree® Power Flaring Tool, providing instructions, technical specifications, troubleshooting, and safety guidelines for HVACR and soft copper tubing.</p>
	<p>Sealey AK5063 Pipe Flaring Kit User Manual and Instructions</p> <p>Comprehensive instructions for using the Sealey AK5063 Pipe Flaring Kit, detailing safety precautions, specifications, and operation for creating single and double flares on copper, brass, and aluminum tubing.</p>
	<p>Laser Flaring Tool Kit 2943: Instructions and Usage Guide</p> <p>Comprehensive guide to using the Laser Flaring Tool Kit (Model 2943) for creating single and double flares on copper, brass, and aluminum tubing. Includes kit contents, preparation, and step-by-step instructions.</p>
	<p>NAVAC NEF6LM BreakFree Power Flaring Tool User Manual</p> <p>User manual for the NAVAC NEF6LM BreakFree Power Flaring Tool, detailing its structure, technical parameters, operation instructions, troubleshooting, and parts list.</p>
	<p>Instructions for Matco Tools DFK93 Premium Double Flaring Tool Kit</p> <p>Step-by-step instructions for using the Matco Tools DFK93 Premium Double Flaring Tool Kit to create precise double flares on thin-wall tubing. Learn how to prepare tubing, use adapters, and form flares.</p>