

FK Irons Flux Max

FK Irons Flux Max Wireless Pen Tattoo Machine User Manual
(4.0mm Stroke)

Model: Flux Max | Brand: FK Irons

- Introduction
- Key Features
- Safety Information
- Setup
- Operation
- Maintenance
- Warranty & Support
- Troubleshooting
- Specifications

1. INTRODUCTION

This manual provides comprehensive instructions for the FK Irons Flux Max Wireless Pen Tattoo Machine. It covers essential information regarding setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device. The Flux Max is designed for professional tattoo artists, offering advanced features and ergonomic design for precision and comfort.

The FK Irons Flux Max wireless tattoo machine pen offers extended stroke length options, including 3.2mm, 4.0mm, and 4.5mm. It features the PowerBolt II battery pack with an OLED digital display, Bluetooth connectivity, and over 10 hours of tattooing power. The PowerBolt II allows for adjustable give directly on the device, eliminating the need for a mobile app connection. Constructed from 6061 T6 aluminum, the machine incorporates a redesigned ergonomic grip for enhanced control and comfort, with voltage adjustments available in 0.1 increment steps.



Figure 1: FK Irons Flux Max Wireless Pen Tattoo Machine with PowerBolt II attached.

2. KEY FEATURES

- **Extended Stroke Length Options:** Available in 3.2mm, 4.0mm, and 4.5mm for versatile tattooing applications.
- **PowerBolt II Battery Pack:** Provides over 10 hours of battery life with an OLED digital display.
- **Bluetooth Connectivity:** Enables advanced features and connectivity.
- **Adjustable Give:** Control needle give directly from the PowerBolt II without requiring a mobile application.
- **Ergonomic Design:** Features a redesigned grip and forward-weighted balance for maximum control and comfort during extended use.
- **Precision Voltage Adjustment:** Allows for fine-tuning of voltage in 0.1V increments.
- **Durable Construction:** Made from high-quality 6061 T6 aluminum.

3. SAFETY INFORMATION

This device is intended for professional use only by trained and certified tattoo artists. Adherence to local health and safety regulations is mandatory.

- **External Use Only:** The tattoo machine is for external application of tattoo ink to the skin.
- **Sterilization:** Ensure all components that come into contact with the skin or ink are thoroughly sterilized before each use. Use appropriate sterilization methods as per industry standards.
- **Professional Use:** This equipment is designed for experienced or professional tattoo artists only.
- **Power Source:** Use only the provided PowerBolt II battery pack or compatible FK Irons power sources.
- **Avoid Moisture:** Keep the device dry. Do not immerse in liquids.
- **Disposal:** Dispose of needles and other consumables according to biohazard waste regulations.

4. SETUP

4.1 Unpacking and Inspection

Carefully unpack all components. Inspect the machine and PowerBolt II for any signs of damage. If any damage is observed, do not use the device and contact your supplier immediately.

4.2 Charging the PowerBolt II

1. Connect the provided USB-C charging cable to the PowerBolt II charging port.
2. Connect the other end of the cable to a compatible USB power adapter (not included).
3. The OLED display on the PowerBolt II will indicate charging status. A full charge typically takes approximately 1.5 hours.
4. Ensure the PowerBolt II is fully charged before initial use for optimal battery performance.



Figure 2: Close-up of the PowerBolt II, showing the charging port and OLED display.

4.3 Attaching the PowerBolt II to the Machine

1. Align the PowerBolt II with the machine body, ensuring the connection points are clean and free of debris.
2. Gently push and twist the PowerBolt II onto the machine body until it is securely seated. Do not force the connection.



Figure 3: The PowerBolt II detached from the Flux Max machine body.

4.4 Needle Cartridge Installation

1. Ensure the machine is turned off.
2. Select a sterile, compatible needle cartridge.
3. Insert the needle cartridge into the machine's cartridge receiver, twisting gently until it locks into place.
4. Adjust the needle depth by rotating the grip of the machine.

5. OPERATION

5.1 Powering On/Off

- To power on, press and hold the power button on the PowerBolt II until the OLED display illuminates.

- To power off, press and hold the power button until the display turns off.

5.2 Adjusting Voltage

- Once powered on, the OLED display will show the current voltage.
- Use the up (+) and down (-) buttons on the PowerBolt II to adjust the voltage in 0.1V increments.
- The recommended operating voltage range is typically between 5V and 12V, but may vary based on needle configuration and artist preference.

5.3 Adjusting Give

The PowerBolt II allows for direct adjustment of needle give. Refer to the PowerBolt II specific instructions for detailed steps on accessing and modifying give settings via the OLED display menu.

5.4 Bluetooth Connectivity

The Flux Max features Bluetooth connectivity for advanced control and firmware updates via the Darklab app. Consult the Darklab app documentation for pairing instructions and available features.

5.5 Using the Killswitch (Optional)

The FK Irons Killswitch (sold separately) can be paired with the Flux Max for wireless foot pedal control. Follow the Killswitch's pairing instructions to connect it to your machine.



Figure 4: The Flux Max machine held in a gloved hand, demonstrating its ergonomic design.



Figure 5: Compatibility chart showing the Flux Max with various PowerBolt versions and the Killswitch.

5.6 Product Video

Your browser does not support the video tag.

Video 1: Official product overview of the FK Irons Flux Max, demonstrating its features and design.

6. MAINTENANCE

6.1 Cleaning

- After each use, wipe down the exterior of the machine and PowerBolt II with a sterile wipe or a cloth dampened with an approved disinfectant solution.
- Do not spray cleaning solutions directly into the machine or PowerBolt II.
- Ensure no liquids enter the internal components or charging port.

6.2 Storage

- Store the machine in a clean, dry environment, away from direct sunlight and extreme temperatures.
- When storing for extended periods, ensure the PowerBolt II is partially charged (around 50%) to preserve battery health.

6.3 Battery Care

- Avoid fully discharging the battery frequently.
- Do not expose the battery to high temperatures.
- If the battery shows signs of damage or swelling, discontinue use immediately and dispose of it properly.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Machine does not turn on.	Battery discharged. PowerBolt II not securely attached.	Charge the PowerBolt II. Reattach the PowerBolt II firmly to the machine body.
Inconsistent needle movement.	Loose needle cartridge. Incorrect voltage setting.	Ensure needle cartridge is securely locked. Adjust voltage to recommended range.
PowerBolt II not charging.	Faulty cable or adapter. Charging port obstructed.	Try a different USB-C cable and power adapter. Inspect charging port for debris.
Bluetooth connection issues.	Out of range. App not updated.	Ensure machine is within range of the connected device. Update Darklab app to the latest version.

If troubleshooting steps do not resolve the issue, please contact FK Irons customer support.

8. SPECIFICATIONS

Feature	Detail
Model	Flux Max
Brand	FK Irons
Stroke Lengths	3.2mm, 4.0mm, 4.5mm (this model is 4.0mm)
Battery Type	Lithium Ion (1 included)
Battery Life	Up to 10+ hours
Connectivity	Bluetooth
Voltage Adjustment	0.1V increments
Material	6061 T6 Aluminum
Product Dimensions	4.87 x 1.26 x 6 inches
Weight	6.4 ounces

Feature	Detail
UPC	810034257093
Manufacturer	FK Irons

MACHINE COMPARISON CHART

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	FKIRONS	ONE	FLUX MAX	FLUX	∞
MACHINE SPECIFICATIONS	Stroke (s) Available	3.0, 4.0	3.2, 4.0, 4.5	4.0	2.5, 3.2, 4.0
	Standard incl. Battery	Drop in battery cell	Powerbolt II	Powerbolt	RCA-Wired or Powerbolt
	Battery Run Time	5-6 hours	5-6 hours	5-6 hours	5-6 hours
	Grip	Reverse Taper 33-38mm	Forward-Weighted 33-38mm	Classic 33mm	Forward-Weighted 40mm
	Weight	6.2oz / 176g	7.2oz / 206g	6.3oz / 181g	6.6oz / 189g
	Length	128mm	126.5mm	124.5mm	124.5mm
BATTERY COMPATIBILITY	Powerbolt	x	✓	✓	✓
	Powerbolt II	x	✓	✓	✓
	Powerbolt II+	x	✓	✓	✓
	Killswitch	x	✓	x	x

Figure 6: Comparison chart of various FK Irons tattoo machines, including Flux Max specifications.

9. WARRANTY AND SUPPORT






For warranty information, please refer to the official FK Irons website or contact their customer service directly. Warranty terms and conditions may vary by region and product.


For technical support, troubleshooting assistance beyond this manual, or inquiries regarding parts and service, please contact FK Irons customer support through their official channels:

- **Website:** www.fkiron.com
- **Contact Information:** Refer to the "Contact Us" section on the official website for phone numbers or email support.

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Related Documents - Flux Max

 <p>2021</p>	<p>FK Irons Spektra Flux Cartridge Machine User Manual</p> <p>User manual for the FK Irons Spektra Flux wireless pen style cartridge machine. Covers safety, machine overview, grip, body, PowerBolt, USB-C connection, needle depth adjustment, eGive, maintenance, and troubleshooting.</p>
 <p>2022</p>	<p>FK Irons Flux Max User Manual: Operation, Features, and Troubleshooting</p> <p>Comprehensive user manual for the FK Irons Flux Max wireless tattoo machine. Learn about its features, operation, safety, specifications, and troubleshooting. Includes PowerBolt II details and usage guidance.</p>
 <p>2021</p>	<p>PowerBolt USB Battery User Manual - FK Irons</p> <p>Comprehensive user manual for the FK Irons PowerBolt USB Battery, detailing features, operation, eGive adjustment, troubleshooting, and specifications for tattoo artists.</p>
 <p>2018</p>	<p>Spektra Edge X Cartridge Machine User Manual FK Irons</p> <p>Comprehensive user manual for the FK Irons Spektra Edge X tattoo machine. Learn about its features, stroke adjustment, give control, lubrication, drive pin system, vise compatibility, and warranty.</p>
 <p>2018</p>	<p>Spektra Halo 2 Crossover Machine User Manual - FK Irons</p> <p>Comprehensive user manual for the FK Irons Spektra Halo 2 Crossover Machine, covering package contents, machine features, parts identification, assembly, operation, stroke adjustment, voltage recommendations, lubrication, and warranty information.</p>

	<p>FK Irons EXO Cartridge Machine User Manual</p> <p>Comprehensive user manual for the FK Irons EXO modular cartridge tattoo machine, detailing its features, operation, maintenance, warranty, and troubleshooting.</p>
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