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› Ambition Soldier 270 S Wireless Tattoo Pen Machine User Manual

Ambition Soldier 270 S

Ambition Soldier 270 S Wireless Tattoo Pen Machine User Manual

Model: Soldier 270 S | Brand: Ambition

INTRODUCTION



This manual provides detailed instructions for the safe and effective use of your Ambition Soldier 270 S Wireless Tattoo Pen Machine. Please read this manual thoroughly before operating the device to ensure proper function and longevity. The Ambition Soldier 270 S is a high-performance rotary tattoo machine designed for professional artists, featuring a powerful brushless motor and a versatile battery system.

SAFETY INFORMATION

For external use only. Avoid contact with eyes. Keep away from naked flame. Always ensure the machine is clean and sterilized before each use. Do not attempt to disassemble or repair the machine yourself, as this may void the warranty and pose a safety risk. Use only approved power adapters for charging.

PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present:

- 1Pcs Wireless Tattoo Pen

- 1Pcs Extra Battery
- 1Pcs Extra 4.5 mm Stroke Cam
- 1Pcs RCA Adapter
- 1Pcs Fast Charging Cable
- 1Pcs Zipper Box

PRODUCT FEATURES

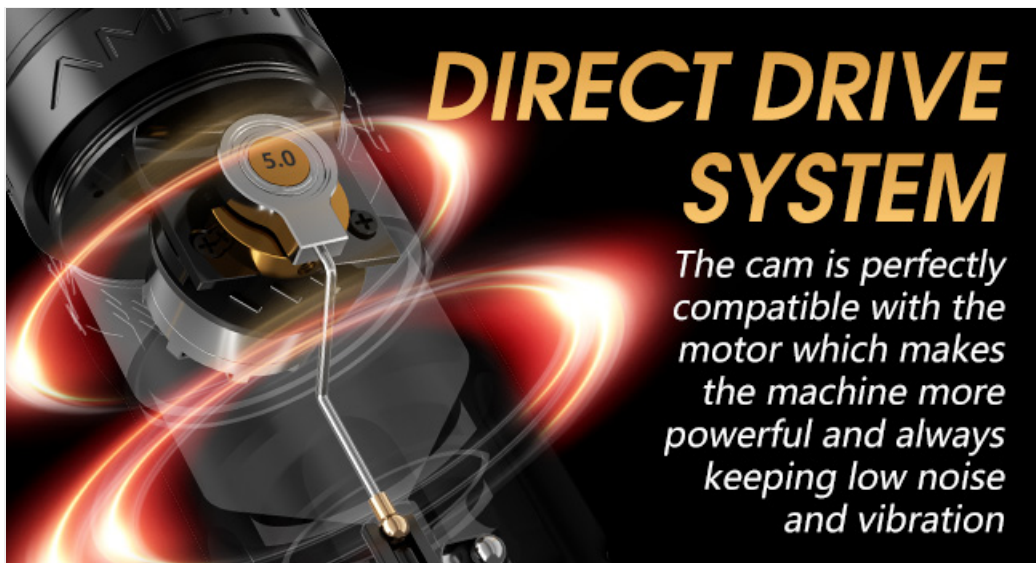
The Ambition Soldier 270 S is engineered with advanced features for professional tattoo artists:

High Torque Brushless Motor



Equipped with a 270 g.cm high torque brushless motor, this tattoo gun offers improved stability and reliability. It prevents issues like needle skipping and wire breakage, even when operating at low voltage, ensuring consistent performance.

Direct Drive System with Adjustable Stroke



The direct drive system features a built-in 5.0mm cam, ideal for fast coloring and fogging. An additional 4.5mm stroke cam accessory is included for fine line work. This system ensures powerful operation with low noise and minimal vibration.

Multifunctional 2400mAh Battery



The 2400mAh battery provides approximately 7-8 hours of operation. It offers two working modes: frequency mode and regular mode, enhancing versatility for various tattoo applications. The battery features a clear display for voltage, timer, hertz, and battery level.

Balanced Design



Constructed from aluminum alloy, the machine weighs 200g and measures 149mm in length and 32mm in width. Its well-balanced design ensures comfort and reduces fatigue during extended tattoo sessions.

SETUP

1. **Initial Charge:** Before first use, fully charge the battery using the provided fast charging cable and a 5V/2A charging adapter. Do not completely drain the battery before charging to prolong its lifespan.
2. **Attach Battery/RCA Adapter:** Connect the battery pack to the machine body. Alternatively, if using a wired setup, attach the RCA adapter and connect it to a compatible power supply.
3. **Install Stroke Cam:** The machine comes with a 5.0mm stroke cam installed. To change to the 4.5mm stroke cam, carefully follow the instructions for disassembling the cam mechanism and replacing it. Ensure it is securely fastened before use.
4. **Insert Cartridge Needle:** Twist and lock your desired cartridge needle into the machine's grip.

OPERATING INSTRUCTIONS



The Ambition Soldier 270 S offers intuitive controls for precise operation:

- **Power ON/OFF:** Long press the 'O' key for 3 seconds to turn the machine on or off.
- **Output Pause/Resume:** Short press the 'O' key to pause the output. Short press it again to resume.
- **Adjusting Voltage/Billing Value:** In pause mode, use the '+' and '-' buttons to adjust the voltage (range: 1-12V, adjustable interval: $\pm 0.1V$). These buttons also adjust the billing value if the billing function is active.
- **Switch Startup Mode:** Double press the 'O' key to switch between different startup modes (e.g., normal start, 8V Jump Start). The 8V Jump Start provides an initial power boost for certain needles.
- **Working Modes:** The battery supports two working modes: frequency mode and regular mode. Refer to the display for current mode indication.
- **Wired Operation:** If the battery runs out or for preference, the RCA adapter can be used to connect the machine to an external power supply, allowing continuous operation.

The customized motor ensures stable operation even at low voltages, reducing needle speed and strength for delicate lines and shadow work, and is suitable for various fine tattoo operations. Under normal 8V voltage, the stable state can last for more than 7-8 hours.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your tattoo machine:

- **Cleaning:** After each use, wipe down the machine body with a sterile wipe or a soft cloth dampened with an approved disinfectant solution. Avoid getting liquids into the motor or charging port.
- **Lubrication:** The direct drive system is designed for minimal maintenance. Do not apply lubricants unless specifically instructed by the manufacturer.
- **Storage:** Store the machine in its zipper box in a clean, dry environment, away from direct sunlight and extreme temperatures.
- **Battery Care:** Charge the battery regularly, even if not in use, to maintain its health. Avoid overcharging or completely discharging the battery.

TROUBLESHOOTING

If you encounter issues with your Ambition Soldier 270 S, refer to the following common solutions:

- **Machine Not Turning On:**
 - Ensure the battery is fully charged.
 - Verify the battery is securely attached.
 - Long press the 'O' key for 3 seconds to power on.
- **Inconsistent Power/Needle Skipping:**

- Check battery level; recharge if low.
- Ensure the stroke cam is correctly installed and secured.
- Verify the cartridge needle is properly seated and not damaged.
- Increase voltage slightly if necessary.

- **Machine Overheating:**

- Reduce operating voltage.
- Allow the machine to cool down between long sessions.
- Ensure proper ventilation around the machine.

- **Display Not Working:**

- Recharge the battery.
- If the issue persists, contact customer support.

For issues not covered here, please contact Ambition customer support.

SPECIFICATIONS

Feature	Specification
Product Dimensions	5.9 x 3 x 2.3 inches
Item Weight	14.08 ounces (200g net weight)
Material	Aluminum Alloy
Motor	270 g.cm High Torque Brushless Motor
Stroke Length	5.0mm (built-in), 4.5mm (accessory)
Battery Capacity	2400mAh
Battery Life	Approx. 7-8 hours (at 8V)
Charger Time	2-3 hours
Voltage Range	1-12V
Adjustable Voltage Interval	±0.1V
Motor Speed	10V/12000rpm
Vibration Value	2.0m/s ²
Decibels	52-55dB
UPC	810174731620
ASIN	B0DQ4B5GVR

WARRANTY AND SUPPORT

Ambition products are manufactured to high-quality standards. This product is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the

documentation included with your purchase or visit the official Ambition website.

If you require technical assistance, have questions about your product, or need to initiate a warranty claim, please contact Ambition customer support through their official channels. Contact information can typically be found on the product packaging or the brand's website.

