

- Manuals.plus /
- › Ambition /
- › Ambition Soldier 270 Wireless Tattoo Machine User Manual

Ambition AB-SB270-S7930H-1

Ambition Soldier 270 Wireless Tattoo Machine User Manual

Model: AB-SB270-S7930H-1 | Brand: Ambition

1. INTRODUCTION AND OVERVIEW

The Ambition Soldier 270 Wireless Tattoo Machine is a high-performance rotary tattoo pen designed for professional artists. It features a 270 g.cm high torque brushless motor, a dual 2400mAh touchscreen battery supply, and a direct drive system for stable and reliable operation. This manual provides essential information for the proper setup, operation, and maintenance of your device.

SOLDIER 270 AMBITION HIGH TORQUE TATTOO MACHINE

Weight	284/228g
Size	144*42/34mm
Motor	20x15mm
Motor Speed	10V/12000rpm
Torque	270g.cm
Voltage	1-12V
Stroke	4.0/4.5mm
Battery Capacity	2400mAh
Battery Life	8-10Hours
Charger Time	2-3Hours
Vibration Value	2.0m/s ²
Decibels	52-54dB



Figure 1: Ambition Soldier 270 Wireless Tattoo Machine with key specifications.

2. PRODUCT FEATURES

- Material:** Constructed from aluminum alloy for the body and a stainless steel drive bar. Dimensions: 144 mm (5.6 inches) length, 42 mm (1.65 inches) and 34 mm (1.3 inches) width. Net weight: 284 g / 228 g. Designed for balanced weight to reduce fatigue during extended tattoo sessions.
- High Torque Brushless Motor:** Powered by a 270 g.cm high torque brushless motor, enhancing machine stability and reliability. Ensures consistent performance even at low voltages, preventing issues like needle skipping or wire breakage.
- Direct Drive System:** Features a direct drive system with a built-in 4.0mm cam, perfectly compatible with the motor. This design ensures powerful operation with low noise and vibration, stable ink absorption, and reduced skin trauma. An extra 4.5mm stroke cam is included for varied tattooing needs.
- Innovative Battery:** Equipped with a 2400mAh battery and a color touchscreen. The touchscreen offers high sensitivity, allowing operation even with gloves. Adjustable voltage range from 1-12V, with additional features including a flashlight page, time, date, and lock screen functionality.
- Package Contents:** Includes 1 wireless tattoo machine with a 42 mm grip, 1 extra battery, 1 extra 34 mm grip, 1 extra 4.5

mm stroke cam, 1 RCA adapter, 1 fast charging cable, and 1 zipper box for storage.

3. SETUP

1. **Charge the Battery:** Before first use, fully charge the machine's battery using the provided fast charging cable and a 5V/2A charging adapter. Avoid completely draining the battery to prolong its lifespan.
2. **Attach Grip:** Select either the 42mm or 34mm grip and securely attach it to the machine.
3. **Insert Cartridge Needle:** Twist and insert a compatible cartridge needle into the machine's grip. Ensure it is firmly seated.
4. **Adjust Needle Depth:** Rotate the grip to adjust the needle depth to your desired setting.
5. **Power On:** Press and hold the power button to turn on the machine. The touchscreen will display the current voltage and other settings.
6. **RCA Adapter (Optional):** If you prefer wired operation, attach the RCA adapter to the machine and connect it to an external power supply (not included).

4. OPERATING INSTRUCTIONS

The Ambition Soldier 270 features an intuitive touchscreen interface for easy control.

4.1. Basic Operation

- **Power On/Off:** Press and hold the central power button.
- **Adjust Voltage:** Use the '+' and '-' buttons to fine-tune the voltage in 0.1V increments.
- **Fixed Voltage Presets:** Touch the screen voltage area to cycle through fixed voltage presets (e.g., 5V, 7V, 9V, 11V).
- **Jump Start Function:** Double-click the power button to switch between startup modes. 'S' indicates the jump start function is off, while 'J' indicates it is enabled.
- **Billing Function:** In pause mode, short press the '+' or '-' key to adjust the billing value by 0.1.

4.2. Touchscreen Features



Figure 2: Detailed view of the HD Color Touch Screen functionalities.

- **Lock Screen:** If no operation is performed within one minute, the machine will automatically lock the screen. Swipe up to unlock.
- **Screen Brightness Adjustment:** Swipe left to access the brightness adjustment page. Touch '+' or '-' to adjust brightness.
- **Flashlight Mode:** Swipe left to access the flashlight page. Touch 'OPEN' to turn on the flashlight; touch again to turn off.
- **Time and Date Setting:** Swipe left to access the time page. Touch 'setting' to adjust the date and time.

4.3. Stroke Cam Replacement

The machine comes with a 4.0mm stroke cam installed and an extra 4.5mm stroke cam. To replace the stroke cam:

1. Ensure the machine is powered off.
2. Carefully unscrew the motor housing to expose the cam mechanism.
3. Remove the existing cam and replace it with the desired stroke cam (4.0mm or 4.5mm).
4. Securely reassemble the motor housing.

Video 1: Official product video demonstrating the features and operation of the Ambition Soldier 270 Wireless Tattoo Machine, including stroke adjustment and touchscreen functions.

5. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your tattoo machine.

- **Cleaning:** After each use, wipe down the machine's exterior with a suitable disinfectant. Ensure no liquids enter the internal components.
- **Lubrication:** Periodically apply a small amount of machine oil to moving parts as recommended by the manufacturer to ensure smooth operation.
- **Storage:** Store the machine in its provided zipper box or a clean, dry environment away from direct sunlight and extreme temperatures.
- **Battery Care:** Do not overcharge or completely discharge the battery. Charge it regularly, even if not in use, to maintain battery health.

6. TROUBLESHOOTING

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

- **Machine Not Turning On:** Check battery charge level. Ensure the power button is pressed and held sufficiently.
- **Inconsistent Power/Needle Skipping:** Ensure the battery is adequately charged. Verify the cartridge needle is correctly inserted and not damaged. Check if the stroke cam is securely in place.
- **Touchscreen Unresponsive:** If the screen is locked, swipe up to unlock. If unresponsive, try restarting the machine.
- **Excessive Vibration/Noise:** Ensure all components are securely tightened. Check for any foreign objects obstructing the motor or cam mechanism.
- **Charging Issues:** Use only the provided charging cable and a 5V/2A adapter. Ensure the charging port is clean and free of debris.

For persistent issues not resolved by these steps, please contact Ambition customer support.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	5.9 x 3 x 2.3 inches
Net Weight	284 g / 228 g (depending on grip)
Item Model Number	AB-SB270-S7930H-1
Motor	270 g.cm High Torque Brushless Motor
Voltage Range	1-12V
Battery Capacity	2400mAh
Stroke Length	4.0mm (pre-installed), 4.5mm (extra cam)
Grip Options	42 mm, 34 mm (extra)
Display	HD Color Touch Screen

Feature	Detail
Water Resistance Level	Not Water Resistant
Manufacturer	Ambition

8. SAFETY INFORMATION

Please observe the following safety guidelines for safe operation:

- For professional use only.
- Avoid contact with eyes.
- Keep away from naked flame and heat sources.
- Do not disassemble or modify the machine, as this may void the warranty and pose safety risks.
- Ensure proper sterilization of all components that come into contact with skin or ink.
- Always use appropriate personal protective equipment (PPE) during operation.

9. WARRANTY AND SUPPORT

Ambition provides a manufacturer's warranty for its products. For specific warranty details, registration, or technical support, please refer to the official Ambition website or contact their customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, visit the [Ambition Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B0DDTKQV26>

More documents and user manuals: <https://manuals.plus/>