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› Ambition Lutin Rotary Tattoo Machine Instruction Manual

## Ambition AB-ZGD-jin7521-1

# Ambition Lutin Rotary Tattoo Machine Instruction Manual

Model: AB-ZGD-jin7521-1

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your Ambition Lutin Rotary Tattoo Machine. Please read it thoroughly before use to ensure proper handling and to maximize the lifespan of your device. This machine is designed for professional tattoo artists.

## 2. SAFETY INFORMATION

- For external use only.
- Avoid contact with eyes.
- Keep away from naked flame.
- Always ensure proper sterilization of all equipment before and after each use.
- Use only with compatible and sterile tattoo needle cartridges.
- Disconnect power before cleaning or performing any maintenance.

## 3. PACKAGE CONTENTS

Upon opening your Ambition Lutin Rotary Tattoo Machine package, you should find the following items:

- 1 x Ambition Lutin Rotary Tattoo Machine

- 1 x RCA Clip Cord
- 1 x Extra 3.5mm Stroke Cam
- 1 x Zipper Box for storage

#### 4. PRODUCT OVERVIEW

The Ambition Lutin Rotary Tattoo Machine is crafted from aircraft aluminum, offering a lightweight and portable design with minimal vibration. It features a custom brushless motor for extended service life and powerful performance.

##### Key Features:

- **Brushless Motor:** Provides strong power, low vibration, and reduced noise. Motor speed is 8V 10000RPM with a working voltage of 3.7V.
- **Straight Drive Bar:** Equipped with a 4.0mm straight drive bar stroke cam (an extra 3.5mm cam is included). This design offers powerful hitting, less resistance, stable ink absorption, fast coloring, and reduced skin trauma.
- **Ergonomic Design:** Compact, portable, and lightweight (113g/3.98oz) with a low center of gravity. The non-slip grip supports long working sessions comfortably.
- **Click Adjust System:** Features a steel ball rotation adjustment structure for precise needle depth control.
- **RCA Interface:** Pure copper RCA connection designed for durability and reliable power transmission.

##### Product Dimensions and Specifications:

The machine measures 80mm (3.14 inches) in length and 32mm (1.25 inches) in diameter.



ELECTRIC MOTOR TATTOO MACHINE

Weight	113g
Size	80*32mm
Motor	20mmx6mm
Stroke	4.0mm/3.5mm
Vibration value	0.8m/s <sup>2</sup>
Decibels	47-50dB

Image: Ambition Lutin Rotary Tattoo Machine specifications table.

# BRUSHLESS MOTOR

HIGH POWER MOTOR

This motor has a unique starting system,  
it is normal to have a creaking sound  
when starting, and it will not cause  
any impact

**8V/10000RPM**  
MOTOR SPEED

**20\*6MM**  
MOTOR



Image: Detailed view of the brushless motor and its specifications.

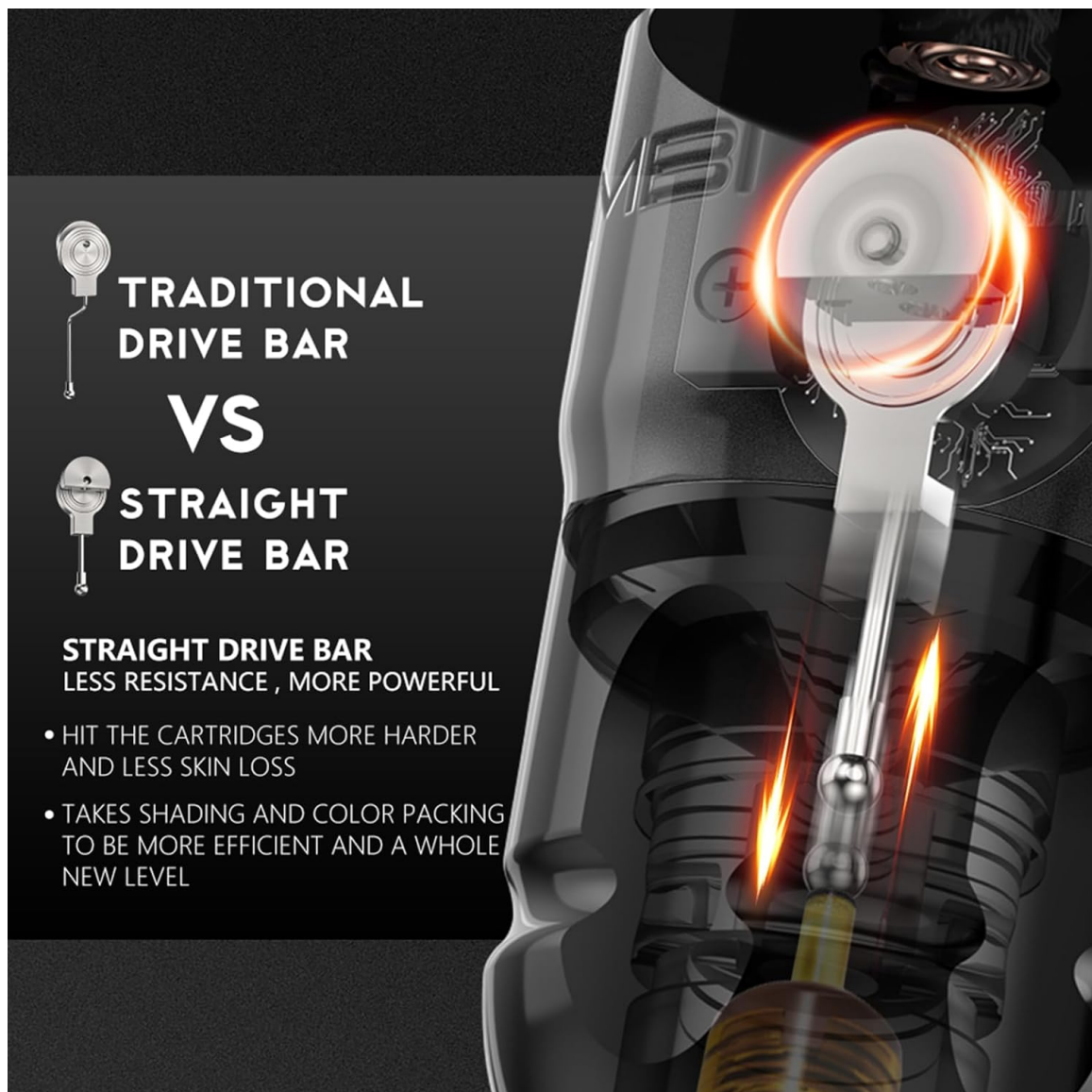


Image: Comparison of traditional vs. straight drive bar mechanism.

## 5. SETUP

1. **Prepare Your Workspace:** Ensure your workspace is clean, sterile, and organized.
2. **Connect the RCA Cord:** Insert the RCA clip cord into the RCA interface at the base of the tattoo machine. Connect the other end to a compatible power supply. The pure copper RCA interface is designed for secure connection and prolonged use.



# RCA INTERFACE

PURE COPPERRCA

ABLE TO WITHSTAND  
PROLONGED  
WEAR AND TEAR,  
EASY TO USE

Image: Connecting the RCA cord to the machine.

- 3. Install Needle Cartridge:** Gently push your desired tattoo needle cartridge into the machine's grip until it clicks securely into place. The machine is compatible with all major brands of tattoo cartridge needles.
- 4. Adjust Needle Depth (Stroke):** Rotate the non-slip grip to adjust the needle length (depth). The steel ball rotation adjustment structure allows for accurate adjustments.

# CLICK ADJUST SYSTEM

ROTATE NON-SLIP GRIP TO SWITCH NEEDLE LENGTH



Image: Using the click adjust system to set needle depth.

5. **Select Stroke Cam:** The machine comes with a 4.0mm straight drive bar stroke cam installed. An extra 3.5mm stroke cam is included for different tattooing styles. To change the stroke cam, refer to the detailed instructions provided with the cam accessory.

## 6. OPERATING INSTRUCTIONS

1. **Power On:** Turn on your connected power supply.
2. **Adjust Voltage:** Set the desired operating voltage on your power supply. The Ambition Lutin operates efficiently at a working voltage of 3.7V, with a motor speed of 8V 10000RPM. Experiment with voltage settings to find the optimal speed for your specific needle and tattooing technique.
3. **Begin Tattooing:** The straight drive bar stroke cam ensures powerful hitting, stable ink absorption, and fast coloring, making it efficient for both lining and shading with minimal skin loss.

# LOW SKIN LOSS

CAN FIT MOST BRANDS OF  
TATTOO CARTRIDGE  
NEEDLES



**4.0MM**  
STROKE LENGTH

**0.8M/S<sup>2</sup>**  
VIBRATION VALUE

**47-50dB**  
DECIBELS

Image: Machine in operation, demonstrating low skin loss.

4. **Brushless Motor Sound:** It is normal for the brushless motor to produce a slight creaking sound when starting. This is part of its unique starting system and does not indicate a malfunction.
5. **Power Off:** After use, turn off your power supply and disconnect the RCA cord.

## 7. MAINTENANCE

- **Cleaning:** Always clean the exterior of the machine with a suitable disinfectant wipe after each use. Ensure no liquids enter the internal components.
- **Sterilization:** While the machine itself cannot be autoclaved, ensure all parts that come into contact with the client or ink (e.g., needle cartridges, grips if not disposable) are properly sterilized according to industry standards.
- **Storage:** Store the machine in its provided zipper box in a clean, dry, and dust-free environment when not in use.
- **Inspection:** Regularly inspect the RCA cord for any signs of wear or damage. Replace if necessary.

## 8. TROUBLESHOOTING

- **Machine Not Turning On:**

- Check if the RCA cord is securely connected to both the machine and the power supply.
- Ensure the power supply is turned on and functioning correctly.
- Verify that the power outlet is active.

- **Unusual Noise/Vibration:**

- A slight creaking sound at startup is normal for the brushless motor.
- If excessive or unusual noise/vibration occurs during operation, ensure the needle cartridge is properly seated.
- Inspect the stroke cam for any obstructions or damage.

- **Inconsistent Ink Flow/Needle Movement:**

- Check if the needle cartridge is correctly installed and not damaged.
- Ensure the needle depth is appropriately adjusted using the click adjust system.
- Verify that the voltage setting is suitable for the needle and task.

## 9. SPECIFICATIONS

Feature	Detail
Product Dimensions	2.63 x 1.25 x 1.29 inches (80mm length, 32mm diameter)
Item Model Number	AB-ZGD-jin7521-1
Manufacturer	Ambition
Item Weight	0.4 Pounds (113g / 3.98oz)
Unit Count	1.00 Count
Color	Gold
Product Style	Custom
Size	Small
Number of Pieces	1
Water Resistance Level	Water Resistant
Motor Type	Brushless Motor
Motor Speed	8V 10000RPM
Working Voltage	3.7V
Stroke Cam	4.0mm (with extra 3.5mm included)
Vibration Value	0.8m/s <sup>2</sup>
Decibels	47-50dB

## 10. WARRANTY AND SUPPORT

The Ambition Lutin Rotary Tattoo Machine comes with a **12-month warranty** from the date of purchase.

If you encounter any problems with your machine or are not satisfied within the first month, please contact Amazon for return or exchange options.

For any issues or questions regarding this machine, please feel free to contact Ambition Tattoo Equipment directly. We are committed to providing support and will do our best to assist you.

## 11. ADDITIONAL RESOURCES

### Product Overview Video

Your browser does not support the video tag.

Video: A brief overview of the Ambition Lutin Rotary Tattoo Machine by Ambition Tattoo Equipment.

