



USER MANUAL FOR THE POWER SUPPLY OF A TATTOO MACHINE TYPE JT-PS003

English

ABSTRACT

Regulated power supply with display LCD adapted to power tattoo machines. The power supply works with coil and rotary machines and Pen type machines.

ZASILACZ DO TATUAŻU
MODEL JT-PS003



Jokers Tattoo & Tattoo Arena

Thank you for your purchase.

Please read the user manual before using the device.

Please keep these instructions for future use.

Warning symbols

This chapter contains important safety and operating instructions that will help you learn how to use the power supply correctly. Read the instructions and pay special attention to the markings and symbols on the power supply and the tattoo machines connected to it.

The following warning symbols may appear in this manual as well as on the power supply case and PCB.



WARNING - Failure to follow the information contained herein could result in personal injury and damage to the power supply and connected devices. There is a special hazard associated with handling.



DANGER – Presence of voltage hazardous to health.



DANGER - threat to life or health.



Important tips and information. Failure to follow the information contained herein may result in damage to the tattoo machines connected to the power supply and cause them to function incorrectly.



The CE marking placed on the product is a declaration by the manufacturer that the marked product meets the requirements of the so-called "New Approach" directives of the European Union (EU). For safety and certification reasons (CE), the device may not be rebuilt or changed in any way. If the power supply is used for purposes other than those described, the product may be damaged. In addition, improper use may cause hazards such as short circuit, burns, electric shock, etc. The product may be passed on to third parties only with the enclosed operating instructions.

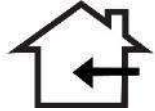


Product compliance with the directive EU 2012/19/EU. The crossed-out bin symbol on the product means that the product marked with it cannot be disposed of with other household waste. After use, the product should be returned to a designated (in a given area) collection point for used electrical and electronic equipment, or returned to the seller. Proper waste segregation for later processing, recovery or destruction helps avoid negative effects on the environment and health, and also enables the recovery of raw materials from which the product is made.

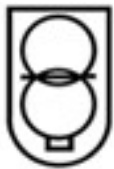
The RoHS marking on the product is the manufacturer's declaration that the marked product meets the EU Restriction of Hazardous Substances



Directive (2002/95/EC), the aim of which is to reduce the amount of hazardous substances released into the environment from electrical and electronic waste.



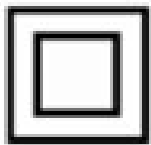
The device is intended for indoor, home use only.



This symbol indicates that the transformer is designed to be short circuit proof.



This symbol indicates that the transformer is used as a switch mode power supply unit (SMPS).



Class II - Double or reinforced insulation

Purpose and purpose of use

The JT-PS003 power supplies operate as a potential-free, low-voltage power source for tattoo machines. The machines to be operated must be connected via the socket on the front of the device. All controls and indicators have been arranged for maximum ease of use. The output voltage from the power supply to the machine is indicated on a high-contrast and easy-to-read, panel display LCD. The output voltage is regulated by a switching voltage converter. The control knob on the front of the device is used to set the output voltage value. The current consumption of the connected device must not exceed the maximum current intensity specified in the technical data.

The device is approved for connection to a socket and an alternating voltage of 230V/AC, 50Hz.

For safety and approval (CE) reasons, this product must not be rebuilt and/or modified. Using the product for purposes other than those specified in the instructions may damage it. In addition, improper use may pose a risk to health and life. Read the operating instructions carefully and keep them for future use. If you pass on this product to a third party, also pass on the operating instructions. This product complies with the applicable national and European regulations. All company names and product names are trademarks of their respective owners. All rights to them are reserved.

Kit contents.

1.  JT-PS003 Power Supply
2.  Power cord
3.  User manual

Example Wiring



Note! The wiring shown is not included in the kit. We have it in our sales offer and must be ordered separately.

1.  Foot pedal (Start foot)
2.  ClipCord or RCA/DC type cable.
(for connecting a tattoo machine with a power supply)

or

The JT-PS003 power supply works with the sample types of tattoo machines and connections shown in the photos below.



Please note! The tattoo machines shown are not included in the set. We have them in our sales offer and must be ordered separately.

1.



Coil tattoo machines.

2.



Rotary tattoo machines.

3.









Pen type tattoo machine.




Read the operating instructions carefully and follow the safety instructions. We assume no liability for any personal injury or property damage if you do not follow the safety instructions and information on the correct operation of the device contained in this document. In such cases, the warranty will be void.


Basic safety rules and safe use of tattoo machine power supplies.

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 | <p>The device has been designed and manufactured in protection class II, which means that: it has double or reinforced electrical insulation, it does not require connection to a protective conductor (earthing), it ensures safe use when operated correctly.</p> <p>Recommendations: Do not modify the housing or power supply, as this could compromise the protective insulation. Use only original spare parts and accessories.</p> |
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 | <p>When you move the power supply from a cold to a warm place, condensation can form. This poses a risk of fatal injury from electric shock. Therefore, always ensure that the power supply for tattoo machines has reached room temperature before connecting it to an electrical outlet and switching it on and/or using it.</p> |
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| ✓ | Make sure that the insulation of the tattoo machine power supply, safety plugs, all cables and the power cord is not damaged or destroyed. Avoid using unprotected cables. |
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| ✓ | The mains socket must be installed near the equipment and be easily accessible. |
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| ✓ | Never pull the mains plug out of the socket by pulling on the cable. Always pull the plug out of the socket using the appropriate plug grip. |
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| ✓ | Disconnect the mains plug from the mains socket if you will not be using the device for a long time.
use the device. |
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| ✓ | Disconnect the mains plug from the mains socket during a thunderstorm for safety reasons.
security. |
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 | <p>Make sure that the power cable is not pinched, bent, damaged by sharp edges or subjected to mechanical stress. Avoid excessive tension</p> <p>thermal damage to the power cord due to extremely high or low temperatures. Do not modify the power cord. Otherwise, the power cord may be damaged. A damaged power cord may cause a fatal electric shock.</p> |
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| ✓ | Do not touch the mains cable if it is damaged. First disconnect the appropriate mains socket (e.g. via the appropriate switch), then carefully pull the mains plug out of the mains socket. Never use the product if the power cable is damaged. |
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| ✓ | Never connect or disconnect the mains plug with wet hands. |
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| ✓ | Never pour any liquids onto electrical devices or place them objects filled with liquid directly next to them. If liquid or an object gets inside the device, first switch off the appropriate socket (e.g. switch off the circuit breaker) and then pull the mains plug out of the mains socket. Do not start the product after that, take it to a specialist workshop. |
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| ✓ | Never leave a tattoo machine power supply unattended while it is in operation. |
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| ✓ | The power supply generates heat during use. Never insert any objects into the ventilation holes of the product or block the ventilation in any way. The power supply is cooled mainly by convection. Therefore, the power supply should never be covered. |
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| ✓ | It is prohibited to short-circuit the power connection. |
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- ✓ If safe operation of the device is no longer possible, immediately stop using the device and protect it from unintended use. Safe operation is no longer guaranteed if:
- the power supply is visibly damaged,
 - the power supply stopped working,
 - the power supply was stored for a long time in unfavorable conditions,
 - the power supply was damaged during transportation.
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- ✓  Opening any device covers or removing parts (if not possible by hand) may expose live parts. This poses a risk of fatal electric shock!
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- ✓ Disconnect the device from the power source before opening it.
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- ✓  Capacitors inside the power supply converter may hold an electrical charge even when the device is disconnected from the mains.
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- ✓ Handle the product with care. Shock, impact or a fall even from a low height can damage the product.
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- ✓ Please also follow the operating and safety instructions for tattoo machines that connect to a power supply.
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- ✓ If you have any questions regarding the operation, safety or connection of your device, please consult an expert.
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- ✓  This product is not a toy, keep it out of reach of children. Children are not able to recognize the dangers that can occur when operating electrical devices. Children may also change the settings or insert objects into the ventilation holes in the power supply. This can result in fatal injuries due to electric shock! Always use the product out of the reach of children.
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- ✓  The power supply for tattoo machines may only be set up and used in dry, enclosed spaces. The device may not be exposed to moisture or get wet. The power supply may not be exposed to extreme temperatures, direct sunlight, vibrations or mechanical stress.
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- ✓ Only use the power supply in temperate climates, never in the tropics.
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- ✓ Select a location for the power supply that is stable, level, clean, and large enough.
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- ✓ Do not have open flames in the immediate vicinity of the power supply and do not place any containers with liquids on or near the device.
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- ✓ If you have any questions regarding the operation, safety or connection of your device, please consult an expert.
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- ✓ Only use accessories supplied with the device.
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- ✓ To repair the device, contact a qualified service center.
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- ✓ The operator operates the power supply while sitting or standing at a work table. The power supply panel should be placed on a stable, dry surface, within the operator's sight and reach. Cables should not cross the workstation.
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✓ This power supply must not be used in the following ways: Outdoors or in a damp environment Without appropriate wiring (e.g. with modified RCA or clip cords) For powering devices other than tattoo machines By untrained persons, children, persons with pacemakers (due to possible electromagnetic interference) With voltages other than 230V AC (unless the device is factory-adapted for other voltages) In the event of visible damage to the housing or cables

✓ Transport, handling and storage conditions Storage temperature: 0-40°C Relative humidity: 10-93% (non-condensing) Protect against shock and falling The product should be packed in the original packaging or other packaging that provides protection against dust, moisture and mechanical damage Do not place heavy objects on the housing

✓ Risk despite safeguards (residual risk) Despite the use of many safeguards, there is still a risk:
Electric shocks due to insulation damage or manipulation of the power supply without disconnecting it from the mains Burns due to long-term operation of the power supply - the device heats up
Occurrence of electromagnetic interference in the presence of medical devices

✓ During work it is recommended to: Use disposable nitrile gloves (for hygiene purposes) Use dry hands when connecting and disconnecting cables Avoid working with wet hands

✓ The device does not emit ionizing radiation. It is possible to emit electromagnetic interference typical of switching power supplies.

✓ The power supply does not contain any user-replaceable consumable parts. Any repairs should only be performed by an authorized service center.

Technical specifications of the power supply Type JT-PS003

Parameter	Range, type
Supply voltage	100-250V/AC, 50Hz-60Hz
Output voltage adjustment range	1.5-18V/DC
Maximum output current	2A
Recommended power of the connected tattoo machine	27W
Output voltage reading	3 digits
Output voltage reading accuracy	0.1V
Tattoo Machine Connector Type	Standard - 6.3mm mono jack
Connector type for foot pedal (foot start)	Standard - 6.3mm mono jack
Cooling system	Natural convection
Dimensions	<ul style="list-style-type: none"> ● height 5.2 cm ● width 9.5 cm ● length 9.5 cm
Weight	134g
CE standards	EN 60335-1 EN 61558-2-16 EN 55014-1 EN 55014-2 EN 61000-3-2 EN 61000-3-3 EN50563 EN IEC 62368-1
Relative humidity	10 – 93% ¹⁾
Working height	up to 2000m

1) Relative humidity range: 10-93% (non-condensing), at an ambient temperature of 25°C.

The power supply has a plastic housing. It has an LCD display.

Dashboard



1. Voltage adjustment knob
2. Indicator light informing about correct operation of the power supply
3. G1 connection socket (for machine cable)
4. G2 connection socket (for cable to foot)
5. LCD display

Photo 1. Front panel view



6. Power switch
7. 230V/AC mains power socket

Photo 2. View of the rear panel

Power supply support

1. Select and connect the network cable to the power supply (on the back of the power supply)
2. Connect the power cable to a 230V/AC power outlet
3. Select and connect the foot and cable to your tattoo machine by plugging them into the appropriate sockets on the front of the power supply: the foot into the G2 socket, and the machine into the G1 socket.
4. Turn on the power supply and set the knob to the required output voltage.
5. Press the start button with your foot to turn on the tattoo machine.



The knob has a hidden function for working without using the foot.

To activate it, disconnect the presser foot cable from the G2 socket, then press the knob once to start the machine and press it again to stop it.

An example set of devices connected to a power supply.



Cleaning the power supply

Before each cleaning, disconnect the power supply from the wall outlet and all devices connected to it.

To clean the power supply from dirt, use a soft, antistatic, lint-free cloth. To remove heavier dirt, the cloth can be dampened with a mild detergent before use.

Do not use abrasive or strong chemical cleaners. Do not spray cleaners directly onto the power supply.

Repair

If the power supply is damaged internally then it must be repaired by a professional service. For safety reasons do not repair the device yourself.

Utilization

Electronic devices are recyclable waste and must not be disposed of with household waste. At the end of their useful life, the product must be disposed of in accordance with the relevant statutory regulations. In this way, you fulfil your statutory obligations and contribute to the protection of the environment.

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