



**LACENANO**  
**TOOLS 4 GODS**

**ADVANCED TATTOO EQUIPMENT**

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# **LABRYS**

ADVANCED UNIVERSAL  
TATTOO POWER SUPPLY

User manual **ENGLISH**

**Thank you** for showing your support by getting your very own LABRYS advanced universal power supply by LACEnano..

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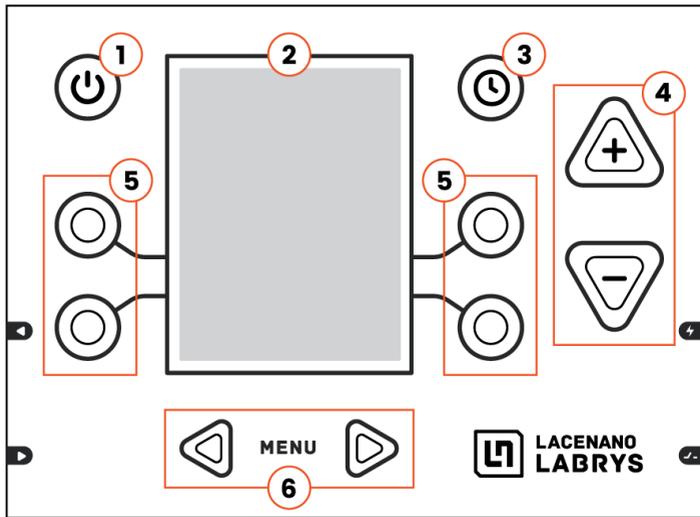
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# 1 | Front Panel



- 1 | Power Button
- 2 | LCD Display
- 3 | Timer Button
- 4 | Voltage / Speed Setting Buttons
- 5 | Function Buttons
- 6 | Bottom Function Buttons

Figure 1 | Front Panel

## 2 | LCD Display

### 2.1 | LACEnano

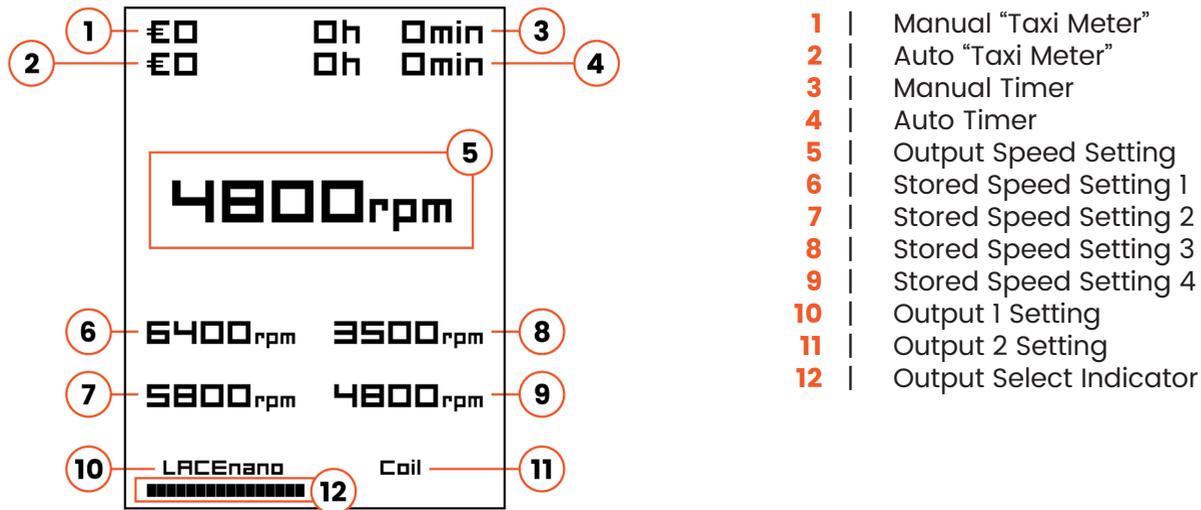


Figure 2 | Display (LACEnano)

## 2 | LCD Display

### 2.2 | Coil, Rotary

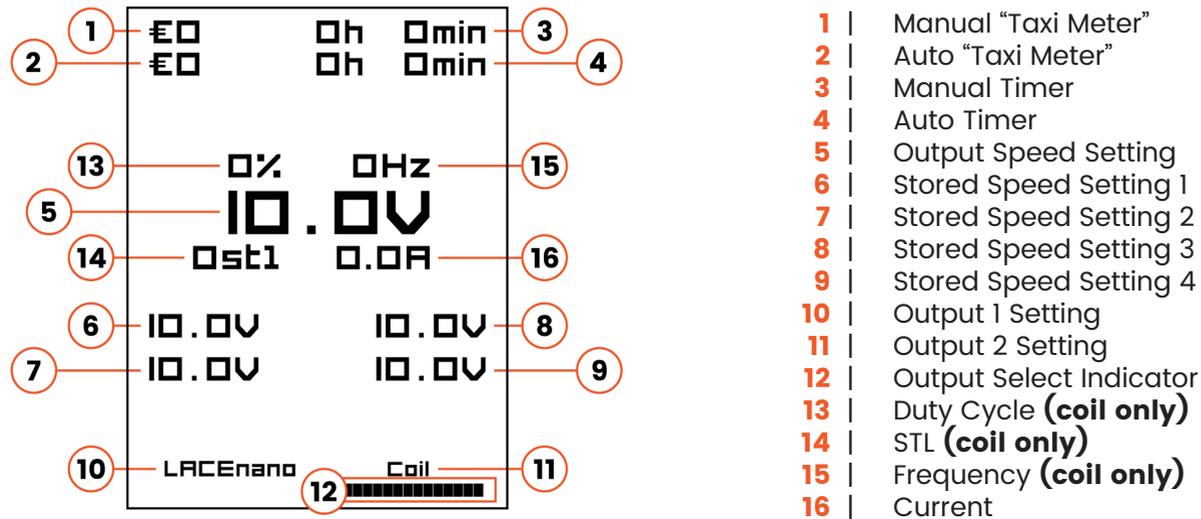


Figure 3 | Display (Coil, Rotary)

### 3 | Taximeter

- ① **Manual:** (Figure 2, no. 1) calculates price from manual timer and hourly rate set in menu
- ② **Auto:** (Figure 2, no. 2) calculates price from auto timer and hourly rate set in menu

Hold “**timer button**” to reset taxi meter. Both taxi meters and both timers will reset. For taxi meter settings go to **chapter 9**.

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### 4 | Timer

- ① **Manual:** (Figure 2, no. 3) start/stop timer with “**timer button**” (Figure 1, no. 3)
- ② **Auto:** (Figure 2, no. 4) auto timer start and stop (turns on and off with the machine)

Timer turns green when running and white when stoped. Hold “**timer button**” to reset timers. Both timers and both taxi meters will reset. For timer settings go to **chapter 9**.

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### 5 | Speed / Voltage setting

**Press or hold** “**voltage/speed setting buttons**” (Figure 1, no. 4). to change output voltage/speed. Save current output setting by holding corresponding function button (Figure 1, no. 5).

Select stored output settings by **pressing** corresponding function button (Figure 1, no. 5).

## 6 | Output select

Select between **output 1** or **output 2** by pressing “**bottom function buttons**” (Figure 1, no. 6). Press left for output 1 or right for output 2. Black bar (Figure 2, no. 12) indicates the selected output.

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## 7 | Output mode

To **change output mode between LACEnano, Rotary or Coil** (Figure 2, no. 10/11) hold corresponding “**bottom function button**” (Figure 1, no. 6) until arrows appear next to the output mode. Now select output mode by pressing “**bottom function button**” (Figure 1, no. 6).

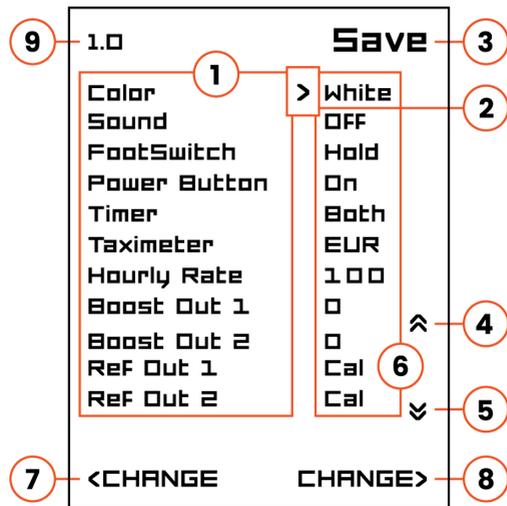
To **confirm** selected output mode, hold corresponding “**bottom function button**” or start your machine by pressing the footswitch.

## 8 | Output enable

To start your machine you can either **use your footswitch** or **press** the “**power button**” shortly (Figure 1, no. 1). If the “power button” is not working enable this function in the menu (**chapter 9**).

When output is ON the corresponding output select indicator (Figure 2, no. 12) **turns green**. It turns white when it is OFF.

## 9 | Settings menu



- 1 | Settings name column
- 2 | Setting select indicator
- 3 | Save and exit, corresponding timer button  
**(Figure 1, no. 3)**
- 4 | Move up the menu, corresponding function button  
**(Figure 1, no. 5)**
- 5 | Move down the menu, corresponding function button  
**(Figure 1, no. 5)**
- 6 | Settings parameter column
- 7 | Switch setting, corresponding function button  
**(Figure 1, no. 6)**
- 8 | Switch setting, corresponding function button  
**(Figure 1, no. 6)**
- 9 | Software version

Figure 4 | Display menu

To enter settings menu **press and hold both** “bottom function buttons” (Figure 1, no. 6) until the menu appears (Figure 4).

Use “function buttons” (Figure 1, no. 5) to move up and down the menu and “bottom function buttons” (Figure 1, no. 6) to change corresponding setting.

<b>Color</b>	Colors	Change the color of the main number.
<b>Sound</b>	On, Off	Turn the sound on/off.
<b>Footswitch</b>	Press, Hold	<b>Press</b> - press and release footswitch to start or stop your tattoo machine. <b>Hold</b> - hold footswitch to run your tattoo machine.
<b>Power button</b>	On, Off	Enable the use of the power button as the footswitch.
<b>Timer</b>	Off, Manual, Auto, Both	<b>Off</b> - no timers are displayed on screen. <b>Manual</b> - only manual timer is displayed. <b>Auto</b> - only auto timer is display. <b>Both</b> - both timers are displayed.

<b>Taximeter</b>	Off, EUR, USD, GBP	<b>Off</b> - taximeter is not displayed. If <b>EUR, USD or GBP selected</b> , taxi meters are displayed next to the enabled timers (auto/manual).
<b>Hourly rate</b>	0 - 999	Set hourly rate for taxi meter, hold function button for fast value change.
<b>Boost Out 1</b>	0 - 3	<b>Output 1:</b> boost start for rotary tattoo machines. <b>0 - Off, 1 - Low, 2 - Medium, 3 - High</b>
<b>Boost Out 2</b>	0 - 3	<b>Output 2:</b> boost start for rotary tattoo machines. <b>0 - Off, 1 - Low, 2 - Medium, 3 - High</b>
<b>Ref Out 1</b>	Cal, Ok, Fail, Off	In case of problems with machine detection read <b>chapter 10</b> . If red “Cal” is shown, power supply is not calibrated.
<b>Ref Out 2</b>	Cal, Ok, Fail, Off	In case of problems with machine detection read <b>chapter 10</b> . If red “Cal” is shown, power supply is not calibrated.

When you finish editing your settings press “timer button” (Figure 1, no. 3) to **save end exit** settings menu.

## 10 | Machine detection

LACEnano tattoo machines use a **brushless motor**. This kind of motor does **not run on common DC voltage** and could potentially get damaged if wrong machine type is selected. To avoid this potential problem this power supply comes with machine type detection. The power supply knows if you have a LACEnano or a traditional coil or rotary plugged in.

If a LACEnano machine is plugged in but rotary or coil mode is selected on your power supply there will be **a beeping sound** and the “**output select indicator**” (Figure 2, no. 12) will change color to red. If this happens check if your machine is correctly plugged in and that your output select settings correspond to the machine you are using.

### — 10.1 | Calibrate detection

**Before using the calibrate function check if you have the correct machine type selected! All LABRYS power supplies come pre-calibrated. If you incorrectly calibrate your power supply you could end up damaging your LACEnano machine!**

If you have selected the correct machine and you still get the warning then **calibrate your power supply** by following these steps:

- 1 Plug a cable with a **MONO 1/4” connector** (for instance a footswitch or any standard machine power cable, but NOT the LACEnano STEREO power cable) into the machine output you want to calibrate.
- 2 Go to menu
- 3 Select “Ref Out 1” to calibrate output 1 or “Ref Out 2” to calibrate output 2
- 4 Press any of the two “**bottom function buttons**” (Figure 1, no. 6)
- 5 Wait a few seconds
- 6 If successful you will see “OK” displayed next to “Calibrate”

If you receive “Fail” message, repeat the process.

If machine detection or calibration problems persist, contact us at **rotary@lacenano.com**

## 11 | Information

For all additional information, contact us through the contact form on our website [www.laceno.com](http://www.laceno.com) or send an email directly to [rotary@laceno.com](mailto:rotary@laceno.com).

### What else can you find on our website?

- Webshop with additional products
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- Frequently asked questions
- Tips on LACEnano equipment usage
- Video gallery of tattoos made with LACEnano
- Official distributors list
- Your latest order tracking

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