



LACENANO
TOOLS 4 GODS

ADVANCED TATTOO EQUIPMENT

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.

Table of Contents

1	Front Panel	3
2	LCD Display	4
2.1	LACEnano	4
2.2	Coil, Rotary	5
3	Connections	6
4	Taxi meter	6
5	Timer	6
6	Speed / Voltage settings	7
7	Output select	7
8	Output mode	7
9	Output enable	7
10	Settings menu	8
11	Machine detection	10
11.1	Calibrate detection	10
12	General care and cleaning	11
13	Information	11

Table of Figures

Figure 1	Front Panel	3
Figure 2	Display (LACEnano)	4
Figure 3	Display (Coil, Rotary)	5
Figure 4	Display Menu	8

1 | Front Panel

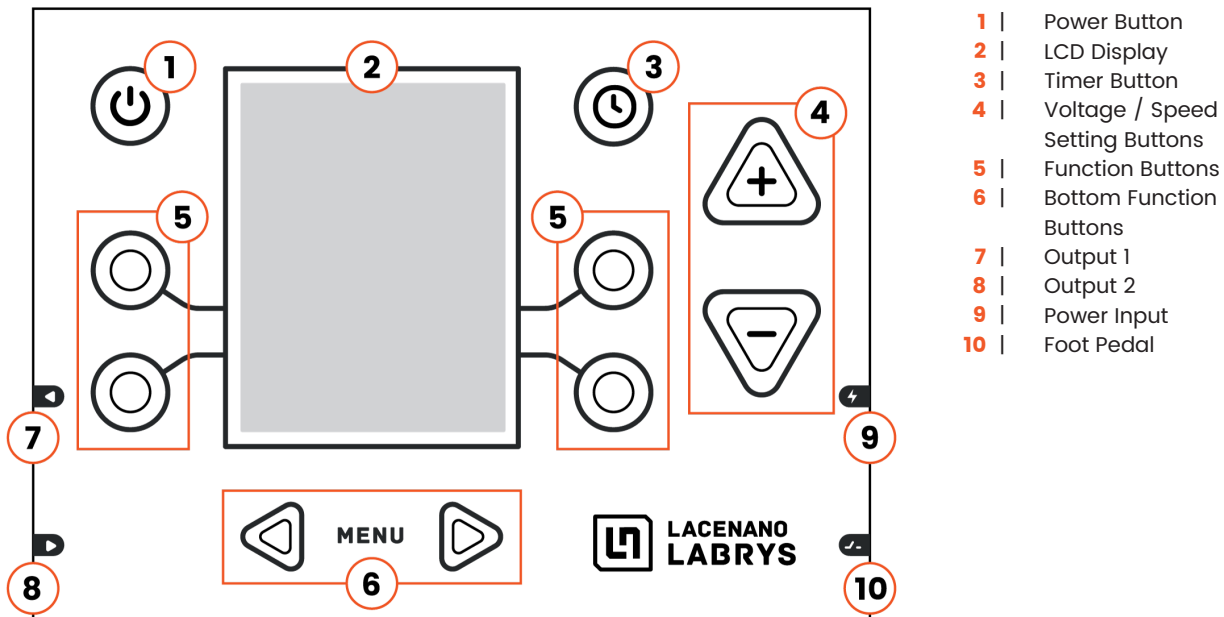


Figure 1 | Front Panel

2 | LCD Display

— 2.1 | LACEnano

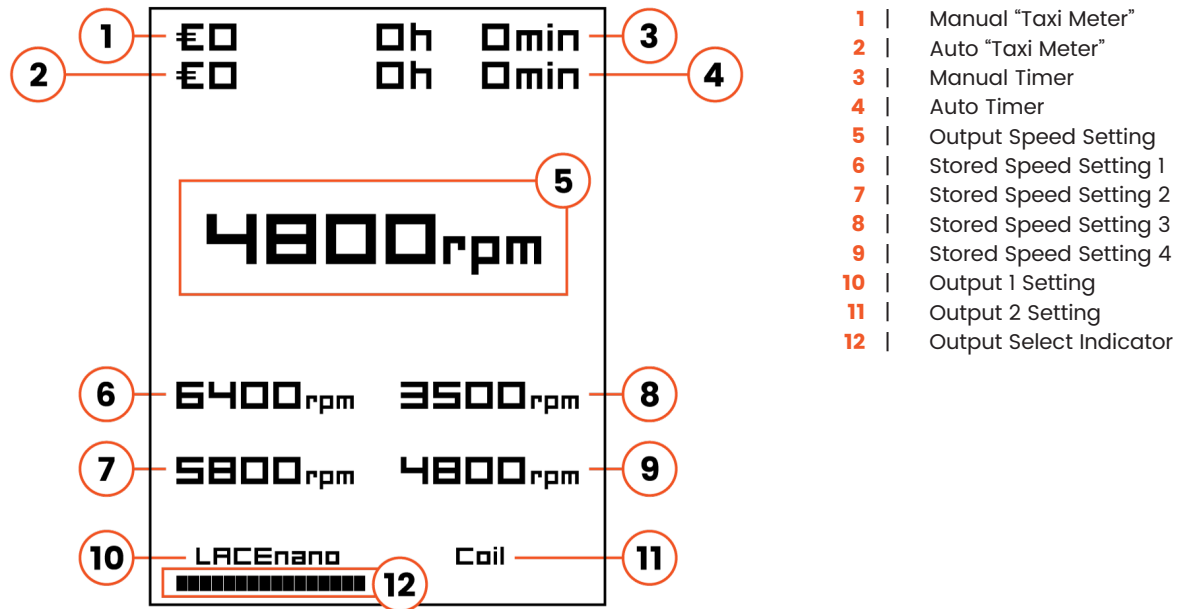


Figure 2 | Display (LACEnano)

2 | LCD Display

2.2 | Coil, Rotary

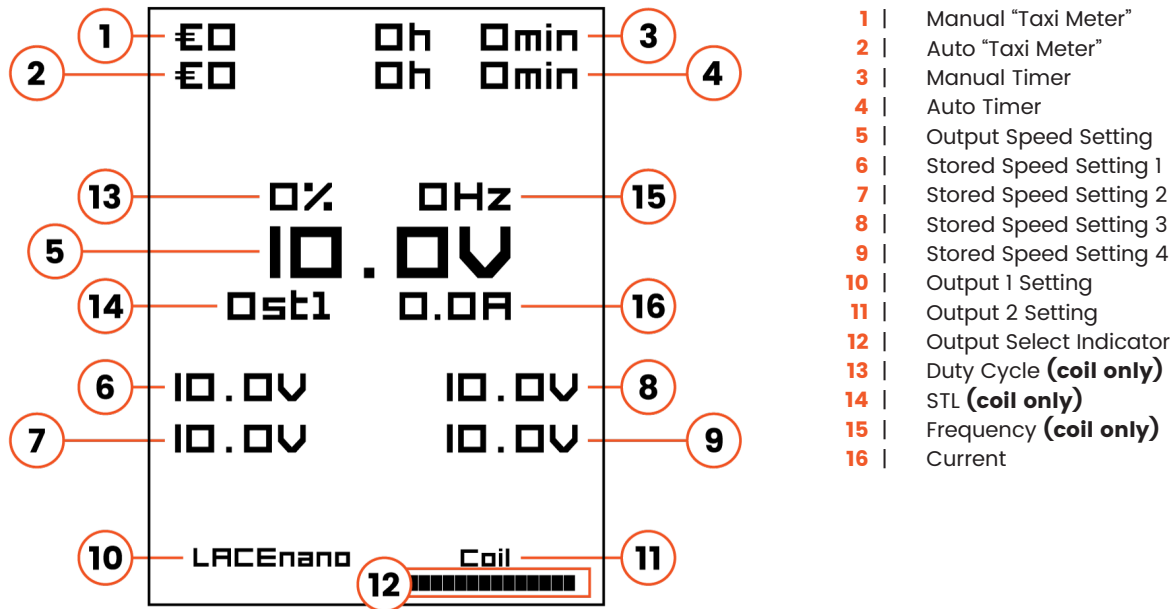






Figure 3 | Display (Coil, Rotary)

3 | Connections

To start using your LABRYS power supply connect supplied wall-wart *1 to DC-IN  (figure 1, no. 9) and your electrical outlet *2. If you are using external foot pedal, connect it to lower right input marked with  (figure 1, no. 10).

Output 1 is marked with  (figure 1, no. 7) and represent the left pointing arrow in bottom function buttons (figure 1, no. 6). Output 2 is marked with  or a right pointing arrow in bottom function buttons. Connect your machine to either of the outputs and select used output with bottom function buttons (figure 1, no. 6). For more information about output select see chapter 7.

CAUTION

- *1 | To avoid injury or damaging your power supply and voiding the warranty use only supplied wall-wart.
- *2 | Wall-wart works on all standard electrical outlet. Supported input voltage is 100-240V and 50/60Hz.

4 | 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 10**.

5 | 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 stopped. Hold "timer button" to reset timers. Both timers and both taxi meters will reset. For timer settings go to **chapter 10**.

6 | 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).

7 | 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.

8 | 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).

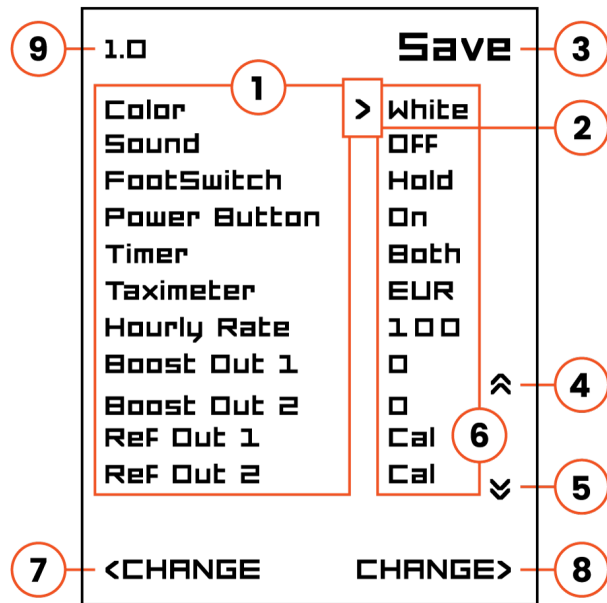
To **confirm** selected output mode, hold corresponding “bottom function button” or start your machine by pressing the footswitch.

9 | 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 10**).

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

10 | 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.

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

Taximeter	Off, EUR, USD, GBP	Off - taximeter is not displayed. If EUR, USD or GBP selected , taxi meters are displayed next to the enabled timers (auto/manual).
Hourly rate	0 - 999	Set hourly rate for taxi meter, hold function button for fast value change.
Boost Out 1	0 - 3	Output 1: boost start for rotary tattoo machines. 0 - Off, 1 - Low, 2 - Medium, 3 - High
Boost Out 2	0 - 3	Output 2: boost start for rotary tattoo machines. 0 - Off, 1 - Low, 2 - Medium, 3 - High
Ref Out 1	Cal, Ok, Fail, Off	In case of problems with machine detection read chapter 11 . If red “Cal” is shown, power supply is not calibrated.
Ref Out 2	Cal, Ok, Fail, Off	In case of problems with machine detection read chapter 11 . 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.

11 | 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.

11.1 | 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**

12 | General Care and Cleaning

**Do not store or leave the power supply in where it will be exposed to direct sunlight for long periods of time.
Do not drop or open the power supply to avoid damaging your power supply and voiding the warranty.**

To clean exterior surface, preform the following steps:

- 1 Disconnect all connections from the power supply
- 2 Clean with moist soft cloth with a mild detergent, alcohol or water

CAUTION

- To avoid damages to the instrument, do not expose them to liquids which have causticity.
- To avoid injury resulting from short circuit, make sure the power supply is completely dry before reconnecting to power source.




13 | Information

For all additional information, contact us through the contact form on our website www.laceno.com or send an email directly to rotary@laceno.com.

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

- Webshop with additional products
- News about LACEnano advanced tattoo equipment
- 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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