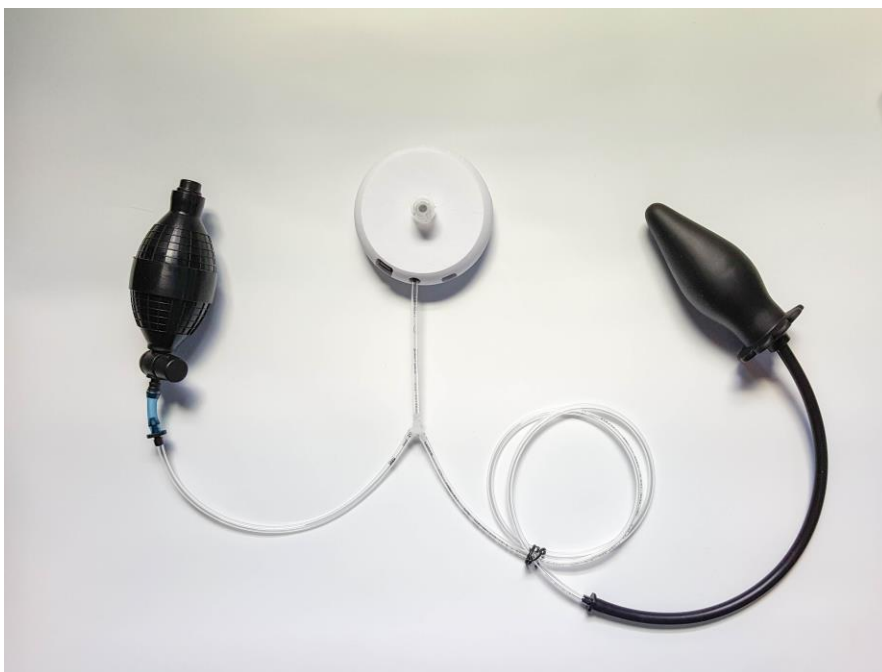


# Nogasm User Guide

## Basic Usage

1. Plug the motor into the right power jack.
2. Plug the power supply into the left power jack.
3. Fit the pressure tubing onto the barb fitting between the power jacks.
4. Connect an inflation bulb and inflatable butt plug to the pressure tubing as shown:



5. Nogasm detects approaching orgasms from pressure changes in an inflatable butt plug, so to use the edging feature, a user has to wear an at least slightly inflated plug.
6. Set up the vibrator for effective stimulation. Any common "Hitachi Magic Wand" attachment is compatible. If using rope to hold the vibrator in place, the loop in the back, and ridge behind the head of the vibrator can help keep it secure.
7. With the Nogasm on, turn the knob clockwise to check that the vibrator is working. Voluntarily clenching on the inflated plug should show some activity on the LED display at this point.
8. Press the knob once to enable the automated edging mode. The vibrator will slowly ramp up to its maximum speed.
9. The biggest key to a successful edging session is the edging sensitivity setting. Turn the knob clockwise to increase the sensitivity to maximum, and the display will turn from green to red, indicating that the user is too close to orgasm, and the vibrator will turn off temporarily.

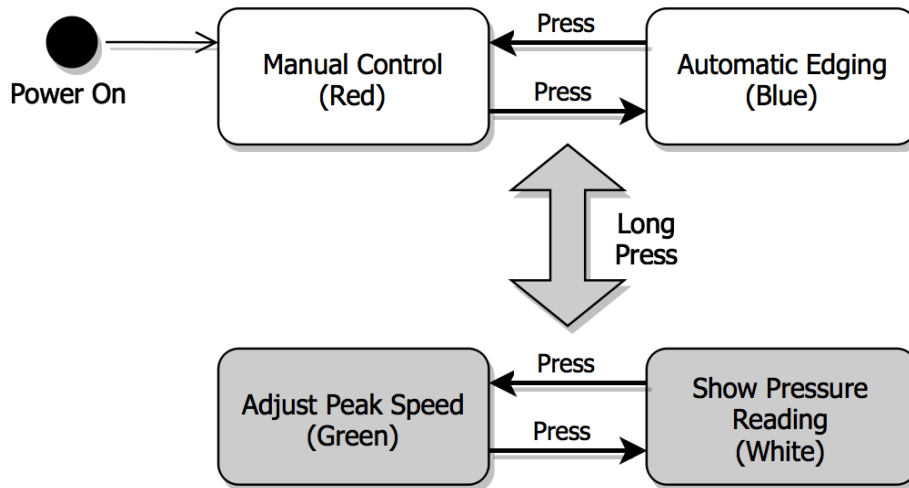
10. From there, decrease the sensitivity slowly until you find the correct setting where the vibrator remains on just until the user is close to orgasm. Too high of a sensitivity will keep users from getting very close to orgasm at all, and too low of a sensitivity will allow the vibrator to stay on long enough for a user to cum. Ideal settings vary from person to person, and with different styles of inflatable plugs. If at any point a user is too close to orgasm, the knob can be pressed to immediately turn off the vibrator, and return to manual mode.
11. Finally, the included vibrator is relatively powerful, and lower speeds can feel better than 100% speed. To keep the vibrator at the best feeling speed in automatic mode, press the knob down for 1 second to enter the "Peak Speed" settings menu, which will change the display to all green. Rotating the knob will adjust the maximum speed that the edging mode will ramp up to, and drive the vibrator at that speed to demonstrate. By default, the maximum is set 70%. Long press one more time to return to manual mode.

## Control

The Nogasm has one knob that can be rotated or pressed. Pressing the knob will change modes. Each mode illuminates the knob in a specific color, and uses the knob rotation to adjust different settings:

Mode	Knob Color	Knob rotation adjusts:
Manual	Red	Vibrator speed
Automatic Edging	Blue	Edging Sensitivity
Adjust Peak Speed	Green	Maximum vibrator speed in edging mode
Show Pressure Reading	White	[nothing]

Short presses cycle between manual control mode, and automatic edging mode. Long presses (between ½ and 3 seconds) enter the settings menu, which allows you to adjust the maximum speed the vibrator will ramp up to in automatic mode, or visualize raw pressure readings on the LEDs. A very long press (more than 3 seconds) will turn the device off until the knob is pressed again.



## Troubleshooting

[The motor beeps out 3 high notes when an inflatable plug is inflated or squeezed]

- The 3-high note beep is a warning that the pressure from the inflatable plug is higher than the processor can read. Some plugs require more pressure to inflate, and will cause this issue. When the processor can't read the pressure correctly, the automatic edging mode will not work.
- You can fix this problem by pulling off the knob and top cover of the Nogasm controller, and using a small screwdriver to manually adjust the pressure sensitivity.
- Turn the controller on, and hold the button down for 1 second to enter the motor speed adjustment menu (green), and then click the knob one time to enter the white "Show Pressure Reading" menu. The white graph directly shows the pressure read by the processor. When the pressure is high enough that the white point moves clockwise all the way to the right, the pressure reading is too high.
- Attach and inflate your plug the desired amount. If the white point now moves to or close to the right side of the controller, the pressure sensitivity should be reduced.
- Reduce the sensitivity by finding the small potentiometer dial, labeled P6 on the top of the circuit board. With a small flathead screwdriver, turn the dial counter-clockwise until the lit white point moves near the middle of the scale (the top of the controller). When the plug is squeezed, the pressure should stay low enough that the white marker does not reach the right side of the controller, and the motor no longer beeps the warning code.



- The potentiometer adjusts the gain from the pressure sensor to the processor. Ideally, you want the gain (sensitivity) to be as high as it can without causing the 3 beep error. A higher gain makes it easier for the controller to detect orgasms.

## Programming

Nogasm was designed to be easy to reprogram or hack for other fun uses. The simplest way to get started is to download the source code from [github.com/nogasm/nogasm](https://github.com/nogasm/nogasm), and install the Arduino IDE with the Teensyduino add-on, to work with the Teensy-LC that runs Nogasm. The device can be reprogrammed via a Micro-USB cable after removing the programming lid on the bottom of the case.

The Github repository also includes circuit schematics, to make it easy to hack the board, or check if the existing circuitry, like if the 12V PWM motor driver is compatible with other hardware. With just software changes, you could drive a relay to control other toys instead of a vibrator, or even use the pressure sensor and some tubing to make a vibrating alarm clock that doesn't turn off until it senses you're out of bed.

## **USB Datalogging**

By default, Nogasm reports its sensor readings and vibrator settings at 60 Hz over a USB virtual serial port at 115200 Baud. The format allows for direct logging to comma-separated variable (.csv) files, or easy visualization using the Arduino IDE's built-in serial plotter. The format is as follows:

[Vibrator Speed],[Plug Pressure],[25-Second Average Pressure]

Where vibrator speed ranges from 0-255, and the pressures range from 0-4095.