CHAOTIC TOCK
A CLOCK GONE CUCKOO

USER MANUAL

A product from
DAMOGRAN LABS

CAUTION
THIS MACHINE HAS
NO BRAIN
USE YOUR OWN

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General Description

Thank you for buying the Chaotic-Tock. This is a wonderful piece of art and mechanics which will be showing the time in the most extraordinary manner, though only the coolest will actually be able to read it.

Since you are reading this manual, we assume you have found yourself in one of the two possible situations:

- Chaotic-Tock is not working or you think it is not working.
- Your are so tidy that you always read manuals first.

Both cases are rather creepy but anyway, we are glad someone is actually reading this. Thank you.

Important Safety Information

- Since this is the *Chaotic-Tock*, its purpose is to confuse you every time you need to know the time. As long as you don't mind the chaos, you are safe.
- The Chaotic-Tock is not suitable for outdoor use. However, it is suitable for both indoor and ondoor use. If the latter is the case, never slam the door.
- Always use the original power adapter supplied with the clock. Or any other un-original one - just make sure its specifications match those stated in this manual.
- This Chaotic-Tock is not microwave-safe. It probably won't fit anyway.
- It is not suitable as a dietary supplement. It is not a replacement for a diverse diet as well.
- It is not suitable for children under the age of 3 years. It contains big parts. And a few smaller too.
- It is not suitable for grown-ups of any age that have no sense of humor. It contains some.

How Does It Work

As every other clock, the purpose of this product is to show the time. This product serves its purpose well.

There are two hands on the clock.

The shorter shows hours. The number it points to is the current hour. It's as simple as that.

The longer shows minutes. If it points to a number, it is the current minute. For every next dot it points to, add one minute. So if the longer hand points to the third dot after number 45:

<div align="center">45 . . • .</div>

that means it's 48th minute after the current hour.

Setup

As you can see, the shipped Chaotic-Tock is fully assembled and only minimal effort is needed to make it run.

The Bracket

There is a metal bracket screwed to the back of the Chaotic-Tock. Its function depends on how you are planning to use the clock. You can use it as a desk clock or as usual wall.

Wall Mount

You need two nails or screws that match the two holes at the top of the clock. The default bracket setting functions as a spacer so your Chaotic-Tock is nicely placed on the wall.

Desk Clock

If you are planning to place the clock on a desk, you should unscrew the metal bracket, flip it around and screw it back. If you don't have the proper tools, you neighbor should. Well, just about anyone should have them. (That includes you.)

Power Supply

The included power adapter is a generic DC adapter with the following specifications:

- Input: 100-240 V, AC 50/60Hz, 0.3A
- Output: 5V DC, 1.0A

- 5V, regulated DC, min. 400mA
- Notice the polarity of the plug:

positive polarity

If you for some reason need to replace the power adapter, please make sure the new one matches these specifications.

Power It Up!

First, make sure that all gears can rotate freely, so there is no obstacles. The best way is to set up the clock in upright position. Then plug the power cable into the only power connector on the back side of Chaotic-Tock and watch. It should start to rotate. If it doesn't, check the Troubleshooting section of this manual.

Every time the power is withdrawn and then turned on, the clock will reset to 00:00 and calibrate (more on calibration later).

Time Setup

The current time is set up with two buttons: **H** and **M.**

To set up hours, simply press the **H** button *n*-times, where *n* is the current hour. You don't have to wait for gears to stop rotating during presses. Just hammer it down and wait.

The same is true for minutes, except that you should obviously press the **M** button.

Calibration

Here are some technical details for the most curious.

In order to point to correct number on the gears, the electronics find a reference point. Those are the small magnets in the gears that must align with the little switches in the base plate. We call that alignment process calibration. It is automatically triggered when power is turned on and then at every noon and midnight.

Notice that during the calibration process, buttons **H** and **M** are disabled and yellow LED on the back of clock is turned on. Hours are always calibrated first.

Manual Calibration

In some cases, Chaotic-Tock just doesn't show the right time, even if you set it up correctly.

This can happen if the gears were moved by hand or there is something between them that prevents rotation or an odd drunk friend of yours was trying too hard to understand it.

In every case except the last, the problem can be solved with a push of the **C** button.

The **C** button will calibrate the clock without resetting the time. If the time was set correctly, the hands should now point to correct numbers/dots.

- If offset remains, please check for any small pieces between gears, any surrounding objects that could prevent the gears to rotate. Also as the case may be, remove your drunk friend.
- If really strange things happen (long calibration, blinking leds you've never seen before on the back side of the clock), please read through Troubleshooting section.

LED setup (seconds LEDs on/off)

While in use, some of you may think about switching LEDs for seconds off, so you will be able to sleep, watch TV or meditate in peace without seconds blinking all the time. To do so (turning LEDs on or off) just hold **C** button for 3 seconds or longer. Unfortunately, every time you unplug power, you will have to set up clock and LEDs again.

Troubleshooting

Hopefully no one will ever have to read this section, but in case you still have to, here is a list of things that can go wrong:

- unsuccessful calibration,
- internal timer error,
- something else, who knows what.

Two of these errors are shown with lights on the back side of the clock.

Unsuccessful calibration

If calibration reference point could not be found for any of the gears (hours or minutes), lights will blink in specific manner.

- **Hour** calibration error:
    - **Red** will light up.
    - **Yellow** will blink twice per second.
- **Minute** calibration error:
    - **Red** will light up.
    - **Yellow** will blink every 3 seconds.

If any of the previous scenarios occur:

- check if there is anything suspicious minute and hour pointers and if the glass switches in the base board are still there and in one piece;
- check if the magnets in gears are still in place (below the little square in the tooth right above 12th hour or 0th minute);
- there are any broken wires on the back side of Chaotic-Tock.

If the gears don't rotate at all, the motors need replacement and there is probably nothing wrong with other parts of the clock.

Internal Timer Error

If only the Red is blinks every 3 seconds, an internal error has occurred. The easiest way to check if there is any hope left for this clock is to unplug power adapter, wait for about 30 seconds and try again. If the error remains, your clock needs a serious repair and can not be fixed by you or anyone else, including us. Please contact your System Administrator, the Webmaster, your Lawyer and finally, us.

Note: All errors are displayed for 10 minutes. After 10 minutes, the clock will restart and try to calibrate again.

Contact Information

The best way to contact us is to mail us at chaotic-tock@damogranlabs.com.

All information about this clock can be found on chaotic-tock.damogranlabs.com.

Send gifts, rewards, flowers and cash to our company address. You can find it at damogranlabs.com/contact-us.