

Kaleidoscope Clock Instructions

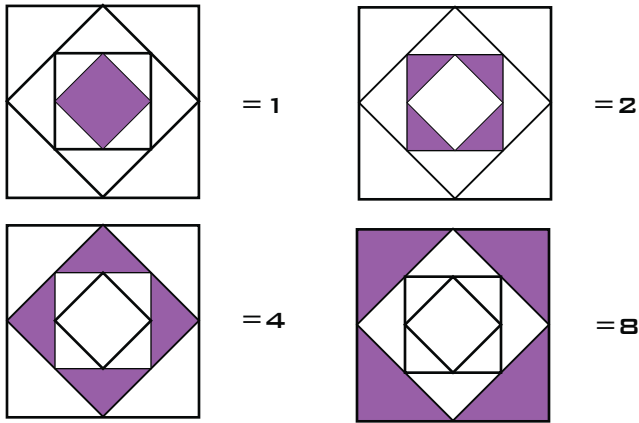
Kaleidoscope, a delightful kinetic art piece that is also a clock. Enjoy!

Design Goal

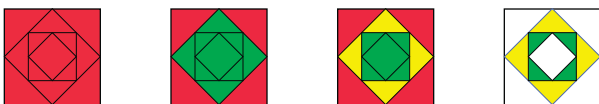
The goal of all ChronoArt clocks is to create a timepiece that is fun to watch, interesting and mysterious.

Reading the Time

One of the delights of ChronoArt clocks is that after a few days, reading it will become second nature to you, while remaining mysterious to others. Plus, this clock is more of a puzzle than most. First, notice there are 4 nested squares and each square has a value. See the attach sheet for more information.



Next, watch the clock run for a minute. The colors are random so don't worry about them. Instead note that it starts a sequence with all one color, then one or more of the squares change to a new color, then another, and another. The first change is the hour, then the tens-of-minutes are overlaid, and finally the minutes. To make it easier to read, only the segments that are going to change, fade to off and then to their new color. Watch this for a minute. If the whole display fades and then brightens with no changes – that is how zero is displayed, like the zero in 7:09 or 7:40. The attached



sheet has a practice example of how it works.

Setting the Time

First a little information. Hopefully your clock arrived already set to your time zone and running. So you probably do not even have to set it now. But when you have to, then here is the setting procedure. My apologies if you have the challenge of learning to read it and set it

at the same time.

If you have turned down the volume of the chime, I suggest you turn it back up temporarily to make setting the time easier. There are two switches on the back of the clock. Near each switch, imprinted on the circuit board is what each does, *Brightness & Inc.* and *Mode*. The switches have multiple functions. The right switch is the Mode switch.

1. Push down and hold the Mode switch until it chimes. A red pattern of the hour will appear. Push down and hold the **Increment** switch until you get to the correct hour.
2. Push down and hold the Mode switch again until it chimes. A blue pattern of the tens-of-minutes will appear. If the face is blank that indicates zero tens-of-minutes. Push down and hold the Increment switch until you get to the correct time.
3. Push down and hold the Mode switch again until it chimes. A green pattern of the minutes will appear. If the face is blank that indicates zero minutes. Push down and hold the Increment switch until you get to the next minute coming up.
4. Then wait until you get to 59 seconds on the clock you are using as a reference; then push and hold the Mode switch one last time until it chimes.

The Chime

The clock has a chime. It is a sweet, non-intrusive Zen bell sound. There is a volume control on the back. If you desire, you may disable the chime sound by turning the volume all the way down. On the hour, the display counts up synchronized to the beat of the chime.

The chime has two modes. In the first mode it chimes out the hour on the hour, and goes ding-dong on the half hour.

The second mode adds quarter hour chimes, and a pre-chime to the hour.

One ding at 15 minutes after the hour.

A ding–dong at 30 minutes after the hour.

A ding–dong–ding at 45 minutes after the hour.

A ding–dong–ding–dong–rest (or space) then chimes the hour. The face display counts up synchronized to the chime count.

(continued)

Changing the Chime Mode

To change the chime mode push down and hold both switches until it chimes. If it chimes ding-dong, you are in the hour and half hour chime mode. If it chime ding-dong-ding you are in the quarter-hour chime mode. Note, if you do not push both switches down simultaneously, it would be easy to accidentally get in the time setting mode or to dim the brightness (See Brightness Control below).

Time Keeping, Accuracy & the Battery

The clock is accurate within 2 seconds except when the power is OFF. There is a lithium coin cell battery, #2450, on the back of the clock. When the power is off it should be accurate to about one minute per year. It will keep time, no display, when the power is off. The battery should be changed every three years.

Care of the Case

The case and face material is acrylic. Glass cleaner works fine, but acrylic cleaners are the best.

Brightness Control

The **Brightness & Inc.** switch has a second function. If you hold it down the clock will dim in steps, when it reaches the dimmest it jumps back to full brightness.

Wall Mounting

There are two holes in the back for hanging the clock. One for hanging it in the corner so it will have a diamond shape on the wall. The electricity can be switched on/off to turn off the display's light. When the power is off, accurate time keeping continues with the battery and a crystal. With the power off the battery will run down in about 10 months.

Trouble or Running Fast? Resetting the Clock

If the clock face goes blank (no light on) or runs fast – clock thinks it is in Europe on vacation :-)), or fails to work properly in some other way, try the following:

First, try the simplest thing to do — just unplug it, wait a few seconds and plug it back in. If that does not fix the problem then proceed:

Unplug the clock from the wall. Remove the battery from the back and wait 30 seconds. Now try plugging in the power again. If that doesn't fix it give me a call — Barry Gamble.

Keep the Shipping Box & Send in Registration Card

If I move I need to keep you informed. Or if I have updates to offer, I'll need your address. Keep the Shipping box and packing material for the first 90 days. Most failures happen soon and this will make your life easier if there is a problem. If you have a problem and

can't find a good solution, call me.

Warranty & Repair

Your clock is guaranteed against defects, under normal use, for one year from the date of purchase. The warranty covers parts and labor only. All repairs are done at the factory. If you have any difficulty with the clock please write or call the factory at the number below.

A Personal Note

My name is Barry Gamble. I have been designing art clocks for 37 years. I love the creation process. My design goals are to delight, charm, and be fun. The product should be chic, sophisticated, make-a-statement, and make an adult giggle.

I do my best to deliver a quality product, deliver promptly, and charge only a reasonable profit. Over the last ten years profit has been so modest that you can truly say, "these clocks are – labors of love."

Enjoy!

Barry Gamble

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