

CHRONOCLAST™ PERSPECTIVES

Where Learning to Tell Time All Over
Again is Mind Candy for the Curious

INSTRUCTIONS

for Editions PCB, CW, and KU



www.spacetimeartworks.com

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INTRODUCTION

Thanks for purchasing a Chronoclast™. We're excited about the work we're doing with clocks and hope to keep amusing and challenging you.

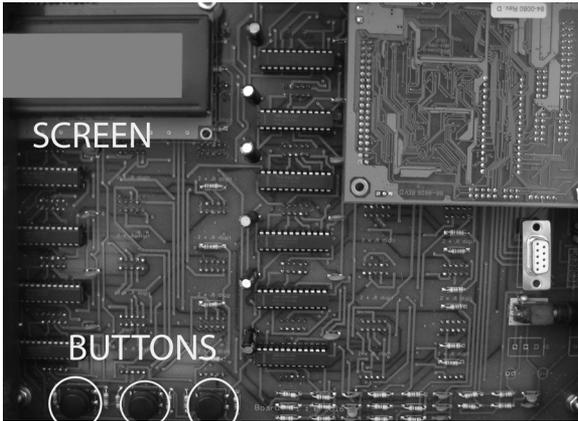
The operation of your Chronoclast is straightforward, but there are a few things you may want to do. Here's how to

- Set the time and date,
- Format the time and date,
- Turn on the demonstration,
- Connect the power, and
- Hang up your Chronoclast™

MAIN MENU

The first thing is to get the main menu, where you can choose what you want to do.

Open up the back and you'll see something like this



There are three buttons on the bottom left and a screen on the upper left.

Press and hold down any of these buttons until you see a “RELEASE BUTTONS” message on the screen. Release the button.

You'll see



We'll refer to this as the “main menu.”

SETTING THE DATE AND TIME

There's a battery backup that should last up to a year.

On the main menu, press the left button (the one under "DATE/TIME.") You'll see the "Date Time Menu."

Whether or not the date appear is one of the formatting options.



SETTING THE DATE

On the Date Time Menu, press the left button (the one under "Date.") You'll see something like



To change the day and month, press the left button (the one under "DAY.") At first, the date will change one day at a time, but if you keep the button depressed, it will soon start incrementing faster. To slow it down, take your finger off the button and then start again. When it reaches 12/31, it will start over at 01/01.

To change the year, press the middle button (the one under "YEAR.") At first it will change one year at a time, but will speed up if you keep the button depressed. When it reaches 2100, it will go back to 1990.

SETTING THE TIME

On the Date Time Menu, press the right button (the one under “TIME.”) You’ll see something like this:



The time appears on the top of the screen. If you press the left button (the one under “HR,”) the time will advance by one hour.” If you press the middle button (the one under “MIN,”) the time will advance by one minute.

When you’ve set the time, press the right button (the one under “DONE.”)

FORMATTING THE DATE AND TIME

Your Chronoclast™’s display can vary from looking just like a familiar digital clock to being a challenging puzzle. It’s all up to you.

There are two ways to format the date and time. The simplest is to use one of the examples that come with your Chronoclast™. There’s an example for each of the formatting options (both stationary and moving,) making the examples an excellent way to familiarize yourself with the different formats. The other way is to set all the options yourself. This lets you combine different options and increase the complexity of the display.

See Appendix A for formatting terminology

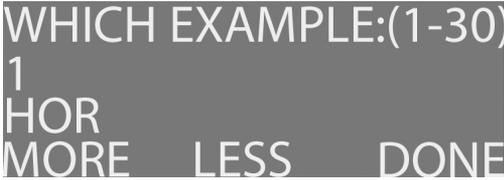
From the main menu, press the middle button (the one under

“FORMATS.” You’ll see



EXAMPLES OF THE FORMATS

If you want to use the examples of the various formatting options press the left button (the one under “EXAMPLES,”) and you’ll see



Your Chronoclast™ comes set to Example 1.

Choose one of the 30 examples by pressing the button on the left (under “MORE,”) to increase the number or the button in the middle (under “LESS,”) to decrease the number. Press the right button (under “DONE,”) when you’ve made your choice.

As you cycle through the numbers, a brief description of the example will appear under the number. The first example is just the normal time displayed horizontally. Some are more involved, and you’ll see things like:



This tells you that example 16 moves horizontally across the screen displaying the time upside down.

Here's what the examples demonstrate:

1 is 2 stationary horizontal lines of Newtonian Time,

2 is the same as 1, but moving,

3 is 6 stationary horizontal lines of Newtonian Time,

4 is the same as 3, but moving,

5 is a stationary diagonal display of the Newtonian Time,

6 is the same as 5, but moving,

7 is a stationary display of the Newtonian Time in two nested rectangles around the perimeter of the display,

8 is the same as 7, but moving,

9 is a stationary vertical display of the Newtonian Time,

10 is the same as 9, but moving,

11 is a stationary display of the Newtonian Time in two interlaced ribbons,

12 is the same as 11, but moving,

13 is 4 stationary horizontal lines of the Newtonian Time with a dissolving transition from one screen to another,

14 is the same as 13 but moving,

15 is 4 stationary upside down and 1 right side up horizontal lines of the Newtonian Time,

16 is the same as 15, but moving,

17 is 4 stationary horizontal lines of the Newtonian Time as it would look in a mirror and 1 normal line,

18 is the same as 17, but moving,

19 is 5 stationary horizontal lines of the Newtonian Time spreading out,

20 is the same as 19, but moving,

21 is 4 stationary horizontal lines of contradicting Newtonian Times,

22 is the same as 21, but moving,

23 is 4 stationary horizontal lines of the Newtonian Time with pauses between screen updates,

24 is the same as 23, but moving,

25 is 2 stationary lines of the date and 4 stationary lines of Newtonian Time

26 is the same as 25 but moving,

27 is a stationary horizontal display of French Decimal Time,

28 is the same as 27, but moving,

29 is a stationary horizontal display of Tresleyan Time, and

30 is the same as 29, but moving.

CREATING YOUR OWN FORMAT

If you want to create your own set of formats and indicate whether you want to see the date, press the middle button (the one under “CONFIG.”)

You’ll see something like:



This lets you adjust how long each of the formats is used before another takes over. It can vary from one minute to one day. Use the left button (the one under “HRS,”) to add an hour, the middle button (the one under “MIN,”) to add a minute and the right button (the one under “DONE,”) when you’ve finished setting the time. When the hours reaches 23 or the minutes reach 59, the next advance takes them back to zero.

Then you’ll see a series of “yes/no” questions about what kinds of times and weaves you want to include. Press the left button (under “YES,”) if you want to include it in your formats or the right button (under “NO,”) if you don’t want to include it.

For more information about terminology, see appendix A.

First you’ll indicate which kinds of times you want included in your formats

First, you’ll see



Indicate if you want to include Newtonian Time. Then, you'll see

USE DECIMAL TIME?

YES NO

Indicate if you want to include Decimal Time. Then you'll see

USE TRESLEYAN TIME?

YES NO

Indicate if you want to include Tresleyan Time.

Then you'll indicate which kinds of weaves you want to include. First you'll see

USE HORIZONTAL WEAVE?

YES NO

Indicate if you want to include a horizontal weave. Then you'll see

USE DIAGONAL WEAVE?

YES NO

Indicate if you want to include the diagonal weave.

Then you'll see



Indicate if you want to include the Rectangular Weave. Then you'll see



Indicate if you want to include the Vertical Weave. Then you'll see



Indicate if you want to include the Ribbon Weave

Next there will be a number of Always/Never/Sometimes questions. You'll decide if you want something to always be the case, never be the case or sometimes be the case (the Chronoclast™ will randomly decide whether or not it occurs.)

If you always want it, press the left button (under "ALWAYS.") If you want it to occur sometimes, press the middle button (under "Sometimes.") If you never want this to happen, press the right button (under "Never.")

Then you'll see:



PAUSE BETWEEN TIMES
ALWAYS NEVER
SOMETIMES

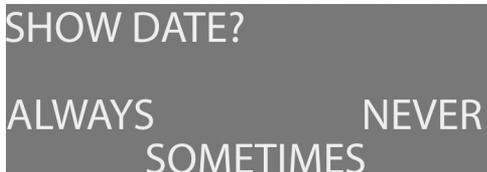
Indicate how often you want the display to pause between displaying the time.

Then you'll see



MAXIMUM STRANDS?
6
MORE LESS DONE

Indicate how many strands of time you want on the display. Then you'll see:



SHOW DATE?
ALWAYS NEVER
SOMETIMES

Then the Chronoclast™ will tell you how many different formats there will be with the choices you've just made. If you answer "YES" to every weave, "YES" to every time, and "SOMETIMES" to all the always/sometimes/never questions, there will be 3,840 formats.

Press any button to start displaying the time (and date.) using the formatting options you've just specified.

RUNNING THE DEMONSTRATION

If you want a brief demonstration of the various formats, press the right button (under “DEMO”) on the main menu.

You’ll see 15 different formats of varying complexity, each lasting 10 to 15 seconds

To return to normal operation, hold down any of the buttons until “RELEASE BUTTON” appears on the screen

CONNECTING POWER

You have power if the red LED on the back of the board is lit. If it’s not, you need to plug the power cord back in.

If you have the Perspective PCB, you can plug the power into the jack on the bottom of the right side of the back.

If you have the Perspective KU, thread the power cord through the hole in the right panel on the back and plug it into the jack on the bottom of the right side of the back.

If you have the Perspective CW, remove the back and plug the power cord into the jack on the bottom of the right side.

HANGING UP THE CHRONOCLAST

If you have the Perspective PCB, you can pass the power cord through the hole in the bottom of the back. There are a pair of holes on the right and left side of the back panel that can be used for the hanging wire.

If you have the Perspective KU, you can thread the power cord through the hole in the bottom.

If you have the Perspective CW, turn the gold leaf that covers the cord, and place the cord in the groove that goes out the bottom. Then hold it in place by turning back the gold leaf.

APPENDIX A – FORMATTING TERMINOLOGY

CONTRADICTIONARY TIMES don't agree with each other. If more than one time is on the display, they will vary by up to 30 seconds.

DECIMAL TIME is most closely associated with China and France. China has used it for a long time and the French introduced it during the French Revolution in the 1790s (but it only lasted a year.) It's based on the decimal system. It divides the day into 10 decimal hours, each decimal hour into 100 decimal minutes and each decimal minute into 100 decimal seconds.

DIAGONAL WEAVE displays the time along the diagonals of the display screen and along the bottom.

DISSOLVING TRANSITIONS change the screen one light segment at a time instead of all at once. This take significantly longer.

EXAMPLES are 30 preconfigured formats that come with your Chronoclast™ to show you what each of the formatting options looks like. You can create your own formats if you want to combine options.

HORIZONTAL WEAVE displays the time in up to 6 horizontal lines on the screen

MAXIMUM STRANDS is the largest number of strands that will be displayed. The horizontal weave has six strands. You might want to limit the number of strands to make the display easier to comprehend.

MIRROR TIME is time displayed the way it would look in a mirror.

MOVING TIME is time that moves on the display.

NEWTONIAN TIME is the time system we're most familiar with. The day is divided into 24 hours, each hour into 60 minutes and each minute into 60 seconds.

PAUSE BETWEEN TIMES means the display will wait for up to 20 seconds before it starts its transition from one time to another.

RATE OF MOTION is how fast moving time moves.

RECTANGULAR WEAVE displays the time in two nested rectangles around the perimeter of the screen as well as in the middle.

REGULAR TIME is time formatted the way we are used to seeing it. If you allow a lot of “sometimes” when you configure your own formats, the display can get very obscure. This option lets you decide if you’d like to have the regular time displayed along with the other format.

RIBBON WEAVE displays the time in two interlaced ribbons that start at the left side of the top two lines, moves to the end of the line, and continues from right to left two lines down.

STRANDS are the component of weaves. Each strand is a display within a display.

SPREADING TIME occurs when the digits in the time spread out on the display.

TIME SYSTEMS: These refer to how the day is divided. See Newtonian Time, Decimal Time and Tresleyan Time.

TRESLEYAN TIME is a variation on Decimal Time. It divides the day into 30 Warbles, each Warble into 30 Sleumans and each Sleuman into 30 Meenches.

UPSIDE DOWN TIME is time displayed upside down.

VERTICAL WEAVE displays the time vertically.

WEAVES are the different places the time is displayed. There is a horizontal, vertical, diagonal, perimeter and ribbon weave. Each weave is composed of strands.

CUSTOMER SERVICE

If you have any problems with the Chronoclast™, first unplug it and the plug it back in. As you've probably learned from other computers, this can fix a lot of problems.

If trouble persists, or you just have questions, call us at 805-624-6356 or email bob@spacetimeartworks.com.