

Word Clock Instructions

Setting the Time

The clock comes pre-set to the correct time.

To adjust the time, press the "HOUR" and "MIN" switches on the back of the clock.

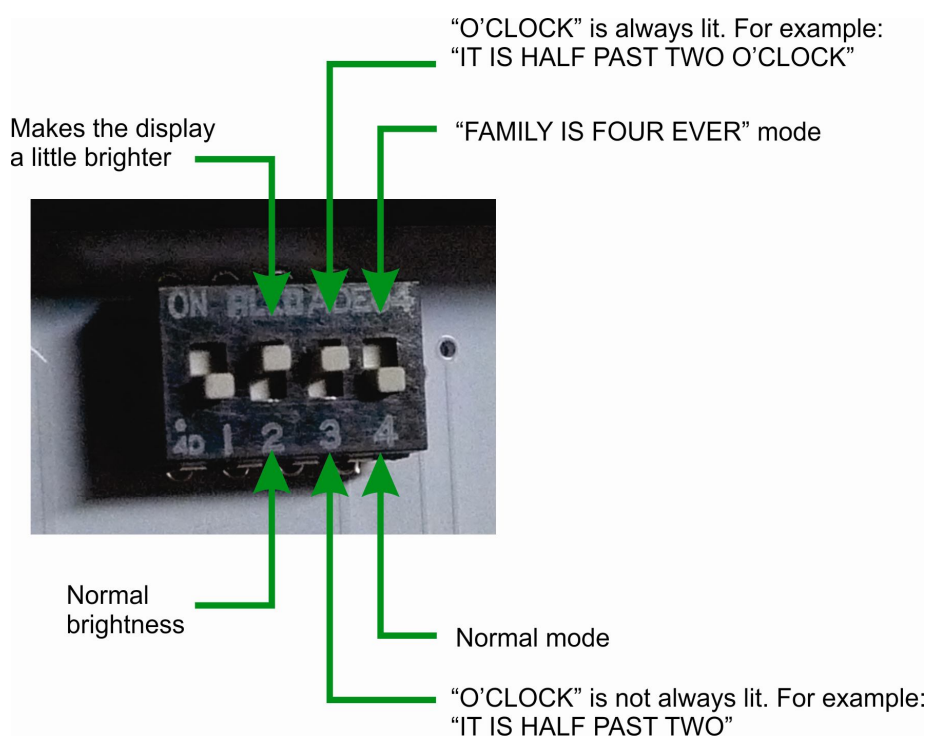
Note that when the "MIN" switch is pressed, it increments the time in 5 minute increments. It also automatically resets the seconds to :00.

For example, if the "MIN" button is pressed to have the clock read "IT IS FIVE MINUTES PAST THREE O'CLOCK" the internal time will be precisely 3:05:00 (five minutes past three o'clock, zero seconds).

Switch Settings

You can modify some of the functions of your clock using switches.

To access the switches, open the back of the clock. This is done by rotating the clips to the side, and pulling the back piece toward you.



Switch #2: In the up position, it will make the clock a little brighter, which is good for brightly-lit rooms. The down position is better for dim rooms.

Switch #3: In the up position, the word "O'CLOCK" will always be illuminated. But if you think the phrase "IT IS HALF PAST TWO" is better than "IT IS HALF PAST TWO O'CLOCK" then set the switch in the lower position.

Switch #4: Our family has a saying "Family is forever." If the switch is in the up position, every time it is four o'clock the clock will read "FAMILY IS FOUR EVER" for 5 minutes. The clock will not display this message if the switch is in the down position.

(You can pre-view this message by unplugging the power supply. Press and hold down both the "HOUR" and "MIN" switch while applying power. To restore normal operation, unplug the power, and plug it back in.)

Battery

The clock has a battery back-up so that it will not lose time during a power outage. A battery (type CR2032) has been pre-installed, but will need to be replaced every 6 years or so to retain this capability.

To replace the battery, open the back of the unit. The battery is in a holder near the bottom of the clock.

Auto Dimming

The clock display will automatically dim when the room lights dim.

If the display is not dim enough in a darkened room, set switch #2 to the "down" position.

More Information

I built your clock using 3D printing, a custom circuit board, a laser cutter, and software running on a small microprocessor.

For more information on how I designed and fabricated your clock, visit:

<http://www.instructables.com/id/3D-Printed-Word-Clock/>