# Light Up Clock Instructions

"Display On/Off"    "Mini-USB"    "DC Power 7-12v"

**Left Side**

"Clock Time Display"

`88:88`

**Front**

"- (Minus)"    "+ (Plus)"    "Menu"
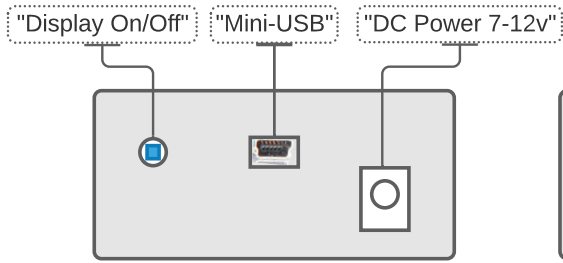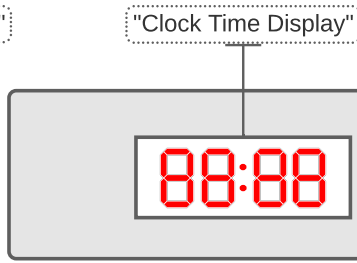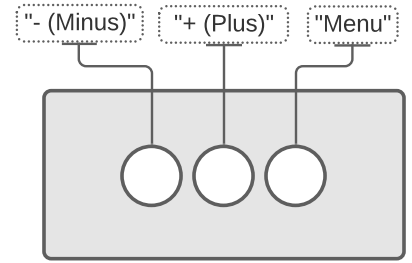
**Right Side**

## Component Explanations

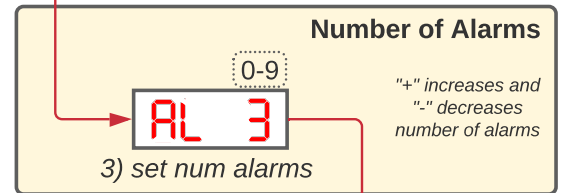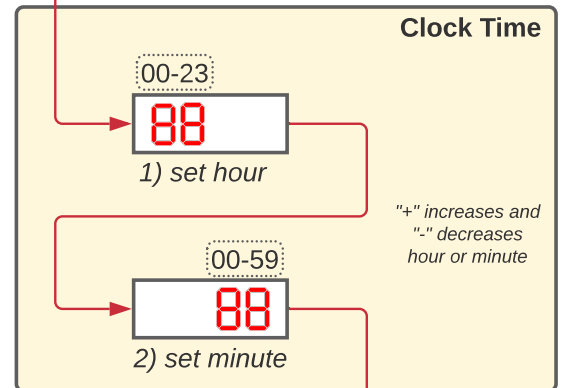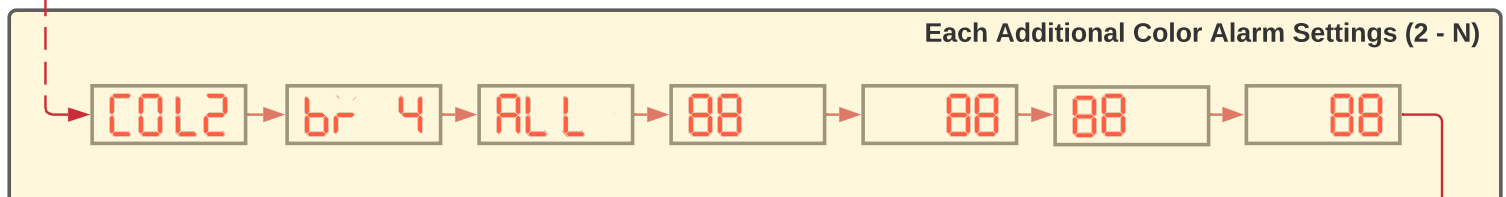| Component | Explanation |
|---|---|
| "Display On/Off" | Toggling the pushbutton "in" turns the clock time display on and "out" turns it off |
| "Mini-USB" | The Mini-USB input is used for power and programming the Arduino Nano with a Mini-USB cable (included) |
| "DC Power 7-24v" | The DC Power input can be used for power input with a DC Barrel Plug 5.5mm/2.1mm 9-12V at 2A (not included) |
| "Display" | The 4-digit seven segment display shows the clock time when the display is turned on; also used for menu options |
| "-" (Minus) | Used in menu options to change time and color alarm settings |
| "+" (Plus) | Used in menu options to change time and color alarm settings |
| "Menu" | Pushing the menu button toggles through menu options and settings for clock |

## Menu Options

*Pressing "Menu" brings you into the menu options and pressing "Menu" again takes you to the next setting in order (as shown by the arrows)*

### Clock Time

00-23
`88`
*1) set hour*

00-59
`88`
*2) set minute*

*"+" increases and "-" decreases hour or minute*

### Number of Alarms

0-9
`AL 3`
*3) set num alarms*

*"+" increases and "-" decreases number of alarms*

### Color Alarm Settings - Alarm 1

`COL1` — set color
`br 4` — set brightness (0-5)
`ALL` — set days of wk (ALL M-F SASU)
`88` — set start hr (00-23)
`88` — set start min (00-59)
`88` — set end hr (00-23)
`88` — set end min (00-59)

*"+" or "-" cycles through colors*
*"+" increases and "-" decreases brightness*
*"+" or "-" cycles through days of week setting*

**start time when alarm 1 turns on**
**end time when alarm 1 turns off**

*"+" increases and "-" decreases hour or minute*

–**For each Alarm (1-9) cycle through the same settings**–

### Each Additional Color Alarm Settings (2 - N)

`COL2` → `br 4` → `ALL` → `88` → `88` → `88` → `88`

End Menu