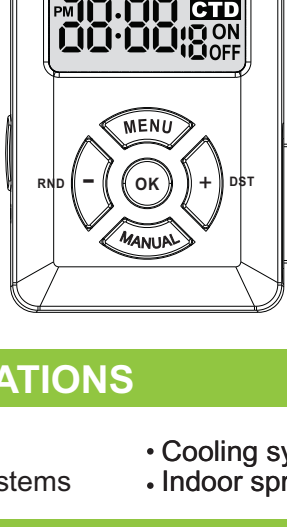


# OPERATING INSTRUCTIONS

## 7 Day Programmable Countdown Function Digital Timer BND-60/SU88



### PRODUCTS VIEW



**Rating:**  
125VAC,60HZ,1/2HP,TV-5  
**Max load:**  
15A Resistive,8A Tungsten

### APPLICATIONS

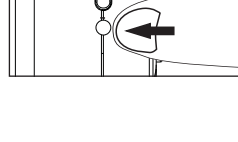
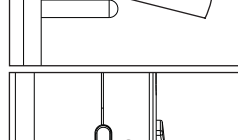
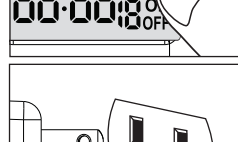
- Lighting
- Heating systems
- Cooling systems
- Indoor sprinklers
- Humidifiers
- Nebulizers
- Aquariums
- Ventilators

### WARNING

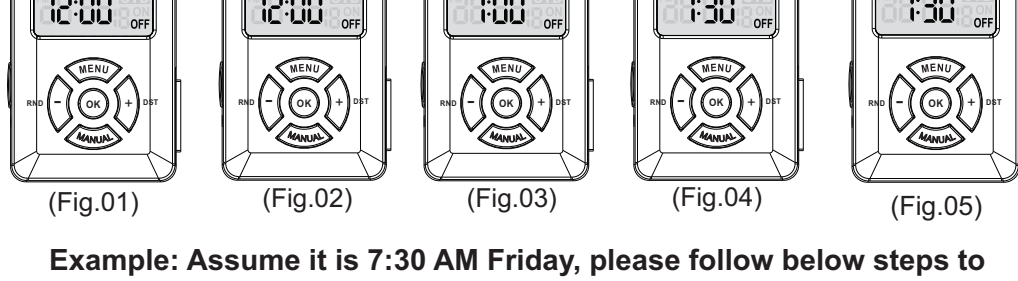
- Electrical shock hazard
- Use a grounded outlet
- Risk of injury or death
- Follow local electrical codes
- Risk of fire
- For indoor use only

### A. INITIAL SETUP

- 1. Remove sticker**  
Locate the tab at the top right of the sticker and pull to remove sticker from face of screen.
- 2. Charge the internal battery**  
If the screen is blank, plug the timer into any outlet for 30 minutes to charge the internal battery.
- 3. Reset the timer**  
Press the "RESET" button on the left side of timer. LCD will display all the icons for 2 seconds.
- 4. Unplug and program the timer**  
Charging the battery allows the programming and setup of the timer to occur from the comfort of your chair !



### B. SET UP CURRENT DAY & TIME



**Example: Assume it is 7:30 AM Friday, please follow below steps to set current day and time.**

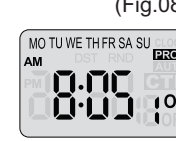
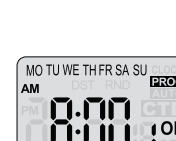
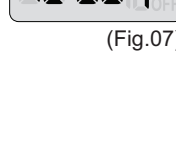
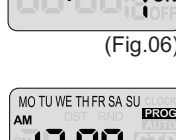
- Press "MENU" button, CLOCK icon will display on the top right of the screen. (Fig.01)
- Press "OK" button, "MO" will flash, use "+/-" button to select the current day of the week. Hold the button for 3 seconds to fast roll. In this case, we select "FR". (Fig.02)
- Press "OK" button to confirm and hour will flash, use "+/-" button to adjust. Hold the button for 3 seconds to fast roll. Make sure AM/PM is correct. In this case, we set the hour to 7 with "AM" icon on its upper left. (Fig.03)
- Press "OK" button to confirm and minute will flash, use "+/-" button to adjust. Hold the button for 3 seconds to fast roll. In this case, we set the minute to 30. (Fig.04)
- Press "OK" button to confirm. (Fig.05)

**Note: to set the clock once again at this stage, press "OK" button and repeat Steps 2-5.**

**To set programs for the timer, please follow instructions in Chapter C. To return to clock screen, hold "MENU" button for 3 seconds or more. If no button is pressed within 1 minute, the unit will go back to clock screen.**

### C. SET PROGRAM

- Press "MENU" button twice at clock screen and "-:--:pm" will be shown on the screen. (Fig.06)  
**Example: Assume you want to turn on a device every day at 8:05 AM and turn it off at 9:00 PM, please follow below steps.**
- Press "OK" button to set Program 1 ON. Day(s) of the week will flash. Use "+/-" button to select desired day or days.(Fig.07)  
The options will show in below order:  
MO TU WE TH FR SA SU  
(every day of the week)  
MO  
TU  
WE  
TH  
FR  
SA  
SU  
MO TU WE TH FR (five weekdays only)  
SA, SU (weekend only)  
-:--  
**Note: -: -- is an invalid option and if it is selected, you can press "OK" button again to restart setting. In this case, we choose the first option: MO TU WE TH FR SA SU**
- Press "OK" button to confirm and hour will be flashing, use "+/-" button to adjust. Pay attention to AM or PM. In this case, we set the hour to 8 with AM icon on its upper left. (Fig.08)
- Press "OK" button to confirm and minute will flash, use "+/-" to adjust. In this case, we set the minute to 05. (Fig.09)
- Press "OK" button to confirm and PROG 1 ON is now correctly set. (Fig.10)
- Press "MENU" button and the screen will show 1 OFF. (Fig.11)
- Repeat Steps 2-5 to set PROG 1 OFF. (Fig.11)
- To set more programs, repeat above steps. Up to 16 programs can be set for each day of the week.
- When all desired programs are set, press "MENU" button to quit or hold "MENU" button for 3 or more seconds at any stage to go back to clock screen. If no button is pressed within 1 minute, the clock will be displayed.
- To review or edit a particular program, locate it using "MENU" button and press "OK" button to edit it.
- To delete a particular program, locate it using "MENU" button, then press "OK" button and set the day to -: -- using "+/-" button.



**Note 1: The programs will not activate until the following conditions are met:**

- A. The operating mode of the timer is set to AUTO.**
- B. No countdown program is running.**

**Note 2: If a countdown program has just run (see Chapter G) or the operating mode is changed (see Chapter D), the current program will be temporarily overridden.**

### D. OPERATING MODES OF THE TIMER

Press MANUAL button at clock screen to select desired operating mode of the timer.

Display of the modes cycles in below order:  
OFF /AUTO OFF /ON /AUTO ON

Description of the modes:  
**OFF:** Output is cut off and the programs are inactive.  
**ON:** Output is constantly on and the programs are inactive.  
**AUTO OFF/AUTO ON:** The timer runs in accordance with the programs previously set.

The code of the ongoing program is shown on the screen. OFF indicates that there is no output and ON indicates that there is output in the outlet.

### E. RANDOM FUNCTION

In the clock display screen, press and hold "-" button for 3 seconds or longer to activate or deactivate the random function. The icon "RND" will show in the clock display screen if the random function is active.

When the timer is running in AUTO mode and the random function is active, the previously programmed ON and OFF times will be separately postponed by 0-30 minutes.

**Note: At least one set of ON/OFF program shall be set so as to activate the random function.**

### F. DAYLIGHT SAVING TIME (DST)

In clock screen, press and hold "+" button for 3 seconds or longer to shift between summer time (with "DST" shown on the screen) and winter time (without "DST" shown on the screen). "DST" will only show in clock screen.

### G. COUNTDOWN FUNCTION

- Press and hold "CTD" button (on the left side of the timer) for THREE seconds or more at any time (unless when a countdown program is running) to set a countdown program. The screen shows 0:00. Once you reach this screen, the timer will be immediately shifted to "AUTO OFF" mode and power output is cut off.
- Use "CTD" button to set a desired countdown time. The screen display cycles in the following order:  
0:00→0:05→0:10→0:15...1:55→2:00  
→3:00→4:00→...→11:00→12:00→0:00.  
Hold the "CTD" button for 3 seconds or more to roll fast. Each push on the "CTD" button will increase the value by 5 minutes with the countdown time less than 2 hours and by 1 hour after the countdown time exceeds 2 hours.
- Release the button and the countdown starts after 2 seconds. There will be output in the outlet and the remaining time keeps flashing, the "CTD" icon will be constantly shown till the countdown finishes.
- The screen will go back to clock display when the countdown is over. The timer is now in AUTO OFF mode.
- When a countdown program is running, you can press "CTD" button to terminate it and return to clock screen, the timer will be in AUTO OFF mode.

**Note: When a countdown program is being set or it is running, functions of the other buttons will be suspended.**

### H. TECHNICAL DATA

If the timer does not turn on or off as programmed, please verify:

- A. Whether the current time is correctly set with special attention to AM/PM;
- B. Whether the programs are correctly set with special attention to day of the week and AM/PM;
- C. Whether the programs are overlapped;
- D. Whether the operating mode of the timer is set to AUTO.
- E. Whether the random function is active.
- F. Whether DST is active.

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