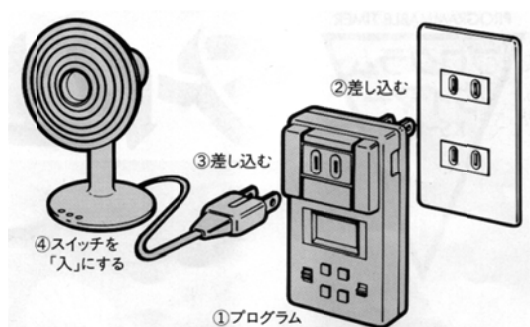


Programmable AC ON/OFF & Cycling Timer Model: KS1500A

INSTRUCTION MANUAL

This timer is good to manipulate the power On/Off of electrical appliances. The timer provides three different modes for selection:

1. Regular daily On/Off timer - To allow user set power ON and OFF time in a day.
2. Cycle timer - To allow user set ON and OFF time intervals of a cycle, which cyclically run during the timer power is at ON status.
3. The combination of the above two modes



LCD SCREEN FORMAT & SYMBOLS (Fig. a)

- **START/STOP** – appear to indicate the START/STOP function is activated, or at the setting mode of START/STOP function
- **CYCLE** – appear to indicate the CYCLE function is activated, or at the setting model of CYCLE function
- **Broken Battery** – the symbol blinking to indicate the power of backup batteries are at low level; battery replacement is suggested
- **Second Flag** – appear and blinking once per second to indicate screen is in real time clock
- **ON** – at real time mode, appear to tell the timer is at “ON” status currently
- **OFF** – at real time mode, appear to tell the timer is at “OFF” status currently

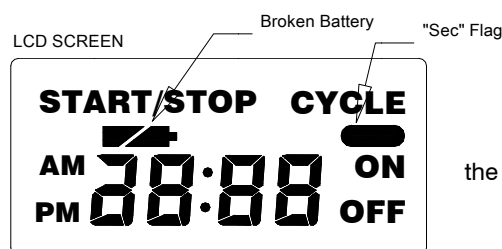


FIG. a

KEYS & SLIDE SWITCHES (Fig. b)

- **HOURL** – to adjust the reading of hour
- **MIN** – to adjust the reading of minute
- **CANCEL** – to erase the whole readings
- **SET** – at the setting mode of START/STOP or CYCLE, to select ON time or OFF time setting
- **RESET** – to system reset the timer
- **ON - OFF SWITCH** – 2 sections slide s/w; set upper position “ON” to enter setting mode of real time; set to lower position “OFF” to initiate real time clock running
- **START/STOP – CYCLE – RUN** – 3 sections slide s/w; set to lower position, “RUN”, for normal display; set to the upper position, “START/STOP”, to enter the setting mode of power ON or OFF; set to the center, CYCLE, to enter its setting mode of power ON or OFF

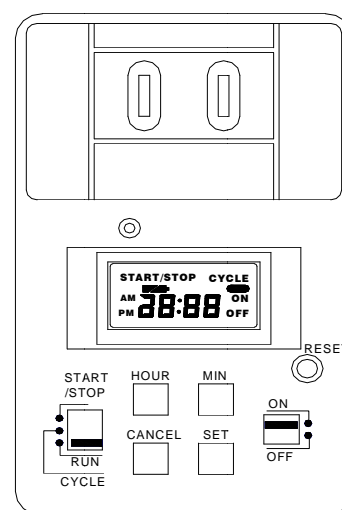


FIG. b

HOW TO SET CURRENT TIME

Before plug the timer onto an outlet for application, set the current time as follows. Make sure the two batteries, type LR44, are installed correctly. Refer to the indication of Fig. b. Press button “RESET” to system reset the timer. The LCD screen turns on fully for 3 seconds and then display “0:00” with symbols “AM” and “OFF” appeared and the “Sec Flag” symbol blinking once per second. Set the ON-OFF S/W to the “ON” position. The “Sec Flag” disappeared. Apply HOUR and MIN buttons to adjust hour and minute to the current time. Then set the S/W to “OFF” position to activate the real time clock running. The “Sec Flag” symbol becomes blinking steady per second.

HOW TO SET THE DAILY POWER “ON/OFF” TIME (i.e., START/STOP function)

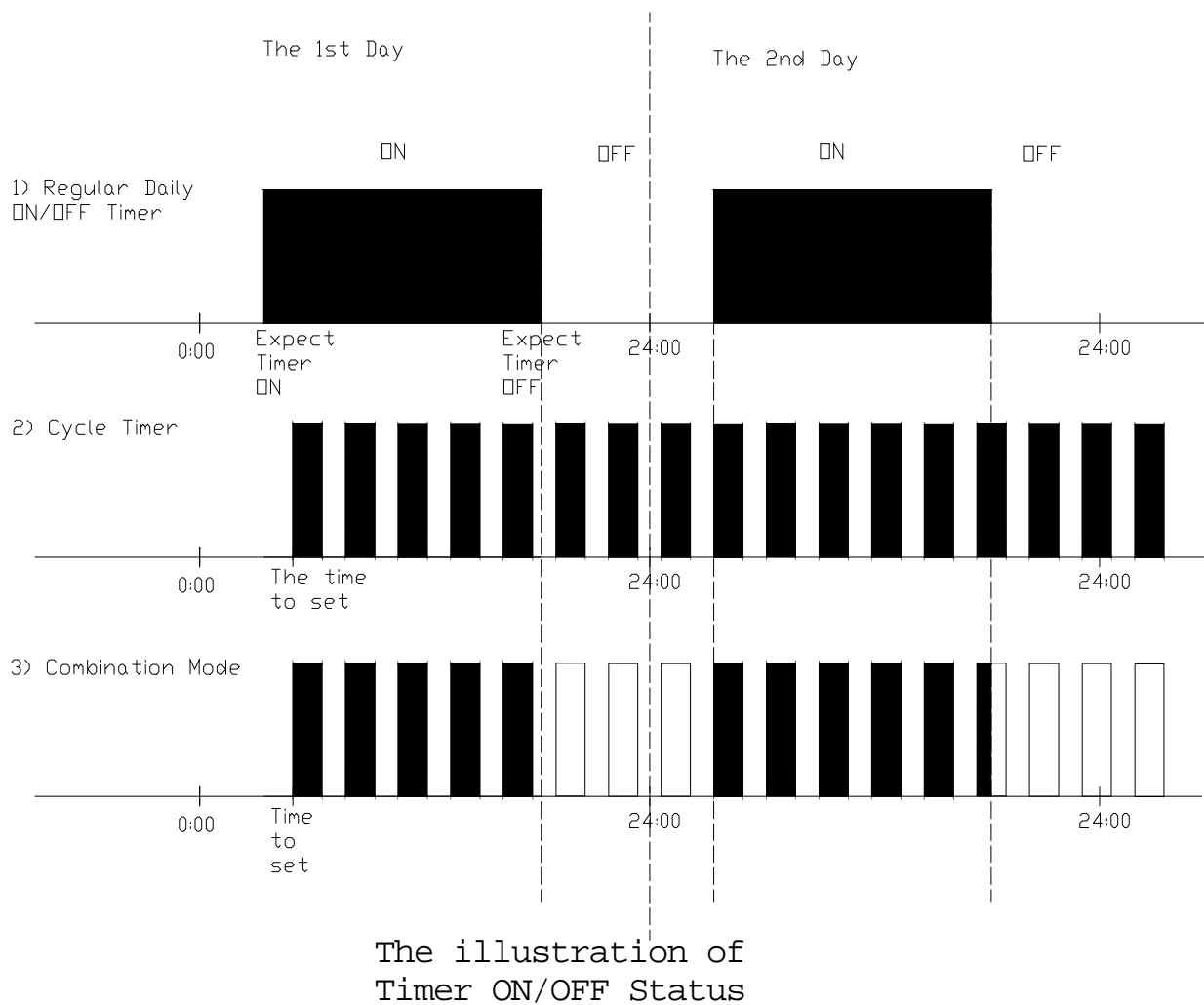
Set the 3-section S/W to the upper position. Symbol “START/STOP” displayed in blinking to indicate the setting mode of START/STOP function is activated. Along with “- : - -” the ON symbol appears steady displayed, waiting for setting the power on time. Apply button HOUR and MIN to adjust the time. Then press button “SET” to switch to the setting of power OFF time. Apply “HOUR” and “MIN” again to adjust the off time. Be sure the settings are as you wish, then depress “SET” again to return to the setting mode of power ON time. Then set the S/W back to the lowest position to activate the On/Off timer and return to real time mode. As well as the symbol “d” changes back to blinking again, the LCD returns to show real time.

HOW TO SET THE ON/OFF INTERVALS OF “CYCLE” FUNCTION

Set the 3-section S/W to the center position. Symbol “CYCLE” displayed in blinking, indicating the setting mode of cycle timer is activated. The symbol “ON” becomes steady displayed waiting for “ON” time interval setting. Apply button “HOUR” and “MIN” to adjust the duration of “ON” interval you wish. Then press button “SET” to change the setting mode to the duration of “OFF” time. Then use the same method to adjust the “OFF” time interval you wish. Be sure to depress “SET” again to return to the “ON” interval of cycle. Then put the S/W back to the lower position to activate the cycle timer. At the meantime the LCD screen changes to show real time and the symbol “Sec Flag” becomes in blinking again.

HOW TO USE THE COMBINATION TIMER

When both of the two modes (START/STOP & CYCLE) are set to activate, the timer is programmed as a combination of two modes. In other words, during the timer is at “ON” status, the timer is modulated by the setting of CYCLE function. While when timer is at the OFF status, the setting of CYCLE does not influence the status. Following waveform shows you how the combination happened.



SPECIFICATIONS

- a. Supply voltage: AC100V $\pm 10\%$
- b. Max. power output: 1500W
- c. Frequency: 50~60Hz
- d. Back-up battery: 2 x 1.5V LR44 or equivalence