## EXERCISE TIMER CLOCK

Introduction

The functions of the exerciser time clock are shown in the diagram below. The time clock has two slide switches with three positions: The switch in the upper right corner is a SET SWITCH used to set the present time and day for your locality, run the program, change an existing exercise cycle or start a new program. The MODE SWITCH located in the upper left corner can start the generator manually, exercise the generator automatically, or disable the exerciser function. The push buttons below the clock display are used to program the exercise day, time and duration. The SKIP BUTTON is used to ignore an "exercise" day. The RESET BUTTON initializes the time clock erasing any previous program.
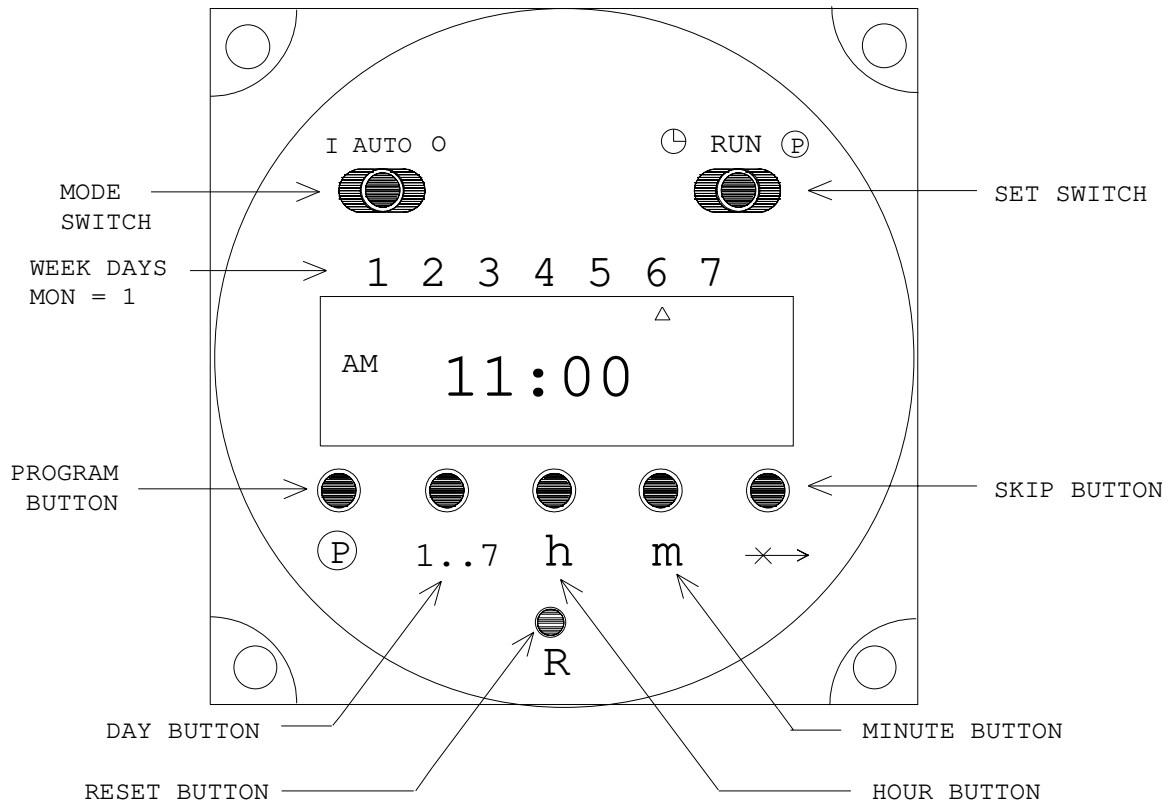
Programming the Exerciser Time Clock

The mode switch slider is in the **O** or "disable" position when packaged at the factory. The set switch is in the "run" position.

Use the following steps to program the exerciser time clock for a particular exercise day, time, and duration:

1. Move MODE SWITCH to "auto" and the SET SWITCH to "run".

2. Press the RESET BUTTON using the tip of a pencil or pen. This operation will produce a blinking display showing "00:0" for the time and an arrow under the day 7 (Sunday).

3. Move the SET SWITCH slider to the left (clock icon) position so the present day and time can be set. A default time AM 12:00 appears in the display with an arrow under the day 7 or Sunday.

4. Press the DAY button (1..7) repeatedly until the arrow points to the actual day of the week.

5. Press the HOUR button (h) repeatedly until the actual time of day is displayed, such as AM 5:00 or PM 5:00.

6. Press the MINUTE button (m) repeatedly until the minute of the present hour is displayed, such as AM 5:30 or PM 5:30.

7. Move the SET switch slider to the "run" position. The present time is displayed with the clock colon "**:**" blinking in one-second intervals. The arrow appears continuously under the present day.

8. Move the SET switch slider to the "program" position (P in a circle). The default time for starting an exercise is AM 12:00. The day arrow is absent. A small 1 appears to the right of the time with a lamp symbol above the 1. The 1 (or odd number) indicates the start of an exercise or contact closure. The lamp symbol indicates that the exerciser contacts are closed.

9. Press the DAY button (d) repeatedly until an arrow appears under the desired exercise day (Monday = 1) for starting the exercise.

10. Press the HOUR button repeatedly until the desired time for beginning the exercise is displayed, such as AM 5:00 or PM 5:00.

11. Press the MINUTE button repeatedly until the minute of the hour for beginning the exercise is displayed, such as AM 5:30 or PM 5:30.

12. Press the PROGRAM button **once more** to set the day and time for ending the exercise. A default time AM 12:00 appears in the display. A small 2 appears to the right of the time. The lamp symbol is absent. The 2 (or even number) indicates the end of an exercise or open contacts. The absence of the lamp symbol indicates when the exerciser contacts will open.

13. Press the DAY button repeatedly until an arrow appears under the desired day for terminating the exercise (Monday = 1) as in step 9.

14. Press the MINUTE button repeatedly until the desired minute of the exercise termination hour is displayed, such as AM 5:40 or PM 5:40.

15. Move the slider on the SET switch to the "run" position. The exerciser time clock is now programmed to start the emergency generator at the desired day, time and for the desired duration.

NOTE: *It is possible to program one to eight "on - off" cycles or transitions for the following day combinations: One to eight "on-off" cycles any day of the week; One to eight "on-off" cycles Monday to Friday inclusive; One to eight "on-off" cycles both Friday and Saturday only; One to eight "on-off" cycles Monday to Saturday inclusive; One to eight "on-off" cycles Monday to Sunday inclusive; All day combinations can have any combination of "on -off " cycles.* **Normally the exerciser time clock will only require one "on-off" cycle once per week.** The programming steps given above describe how to exercise the generator once a week. **EXAMPLE:** Suppose that the desirable day and time for exercising the generator is Saturday at 5:00 AM. Move the slider of the SET SWITCH to the right (P in circle) position. Press the DAY BUTTON (1..7) repeatedly until the arrow appears under day 6. Press the HOUR BUTTON (h) followed by the MINUTE BUTTON repeatedly until the desired time ^{AM}5: 30 are displayed. The generator is to be shut down after exercising for 10 minutes. With the slider of the SET SWITCH still in the right (P in circle) position press the PROGRAM BUTTON **once**. The display will show a continuous default time of ^{AM} 12:00. The day arrow(s) disappears. The small 1 will change to a 2 and the lamp symbol disappears. Press the DAY BUTTON (1..7) again repeatedly until the day arrow appears under day 6. Press the HOUR BUTTON (h) followed by the MINUTE BUTTON again repeatedly until the desired time ^{AM}5: 40 are displayed. Return the SET SWITCH slider to the "run" position. The exerciser time clock is programmed to start the generator at 5:30 AM on Saturday morning and run for 10 minutes then shut down at 5:40 AM of the same day Saturday. Following this procedure, the generator can be exercised as frequently as desired.