

Installation Instructions for External Exercise Clock Kit 541-1107

This Instruction Sheet describes the installation of an external exercise clock kit on a transfer switch.

The exercise clock includes:

- A 7 day, 24 hour clock
- Up to 28 programs that can be used to start and stop exercise periods
- Automatic changeover for summer/winter (Day-light Savings) time
- A 3 volt lithium battery backup (non-replaceable)

The exercise clock can be used with 12 or 24 VDC operation.

The following parts are included in this kit.

Part Description	Qty
Exercise Clock	1
Terminal Rail	1
Terminal End Bracket	2
Flat Washer	2
Hex Nut (M5)	2
Lead (30" Long)	1
Lead (20" Long)	1
Lead (8" Long)	1
Lead (26" Long)	1
Plier Tape Terminal	1

Read these instructions completely and become familiar with safety warnings, cautions, and procedures before starting the installation. Determine how much programming of the clock will be required for your installation.

⚠WARNING *Incorrect installation, service, or parts replacement can result in severe personal injury, death, and/or equipment damage. Service personnel must be trained and experienced to perform electrical and mechanical component installations.*

INSTALLING THE EXERCISER CLOCK

1. Verify that no exercise periods have been set with the transfer switch integrated exerciser. The Exercise LED on the control panel is off when no exercise periods are set (see Figure 1).
 - a. If the Exercise LED is lit and is flashing, an exercise period is in process. Either wait until the exercise period is over before installing this kit, or else press the Override pushbutton to cancel the exercise.
 - b. If the Exercise LED is lit but is not flashing, a repeatable exercise period has been set. Press the Set Exercise pushbutton for five seconds to cancel the exercise period.

⚠WARNING *AC power within the cabinet and the rear side of the cabinet door presents a shock hazard that can cause severe personal injury or death. Use extreme caution to avoid touching electrical contacts whenever the cabinet door is open.*

2. Open the transfer switch door and remove power by disconnecting the J1 and J2 connectors (see Figure 2).

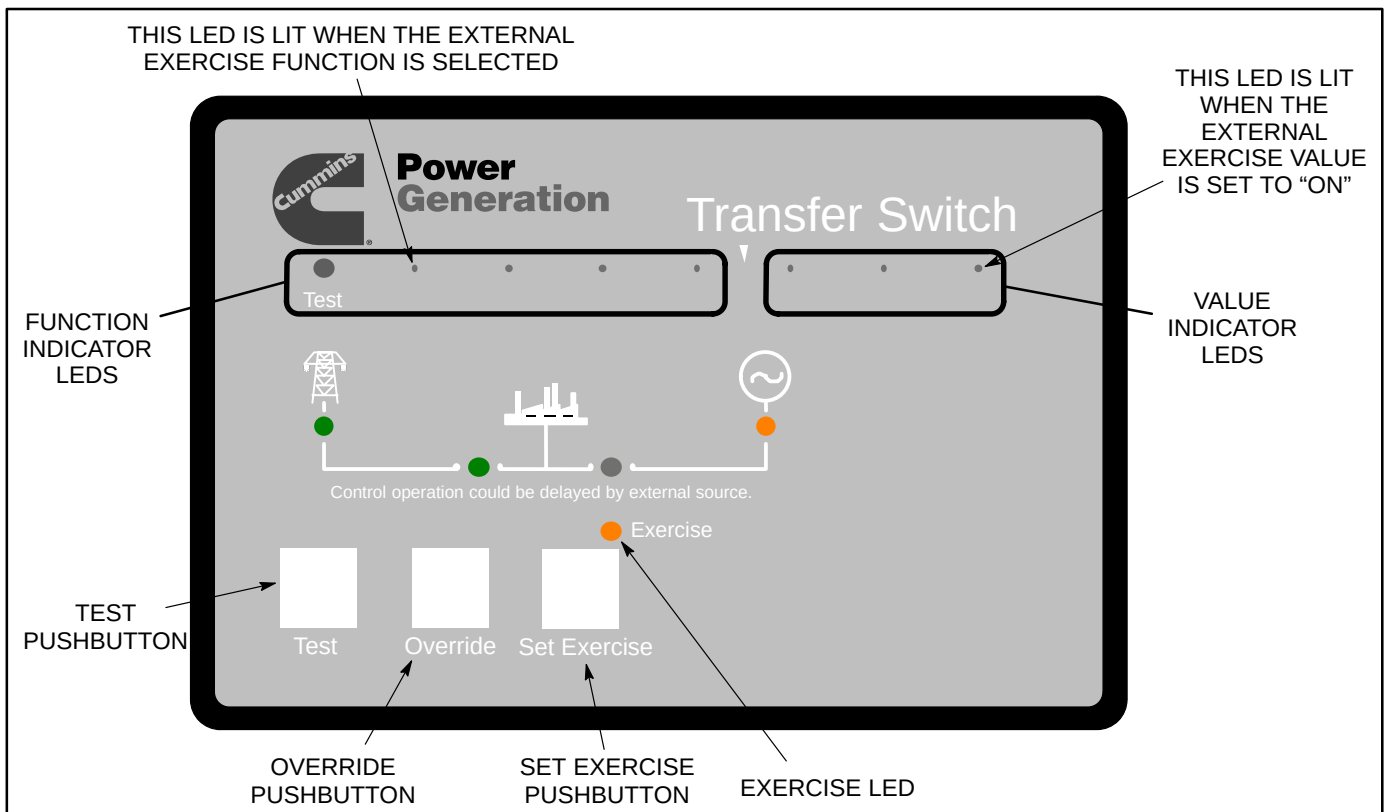


FIGURE 1. CONTROL PANEL

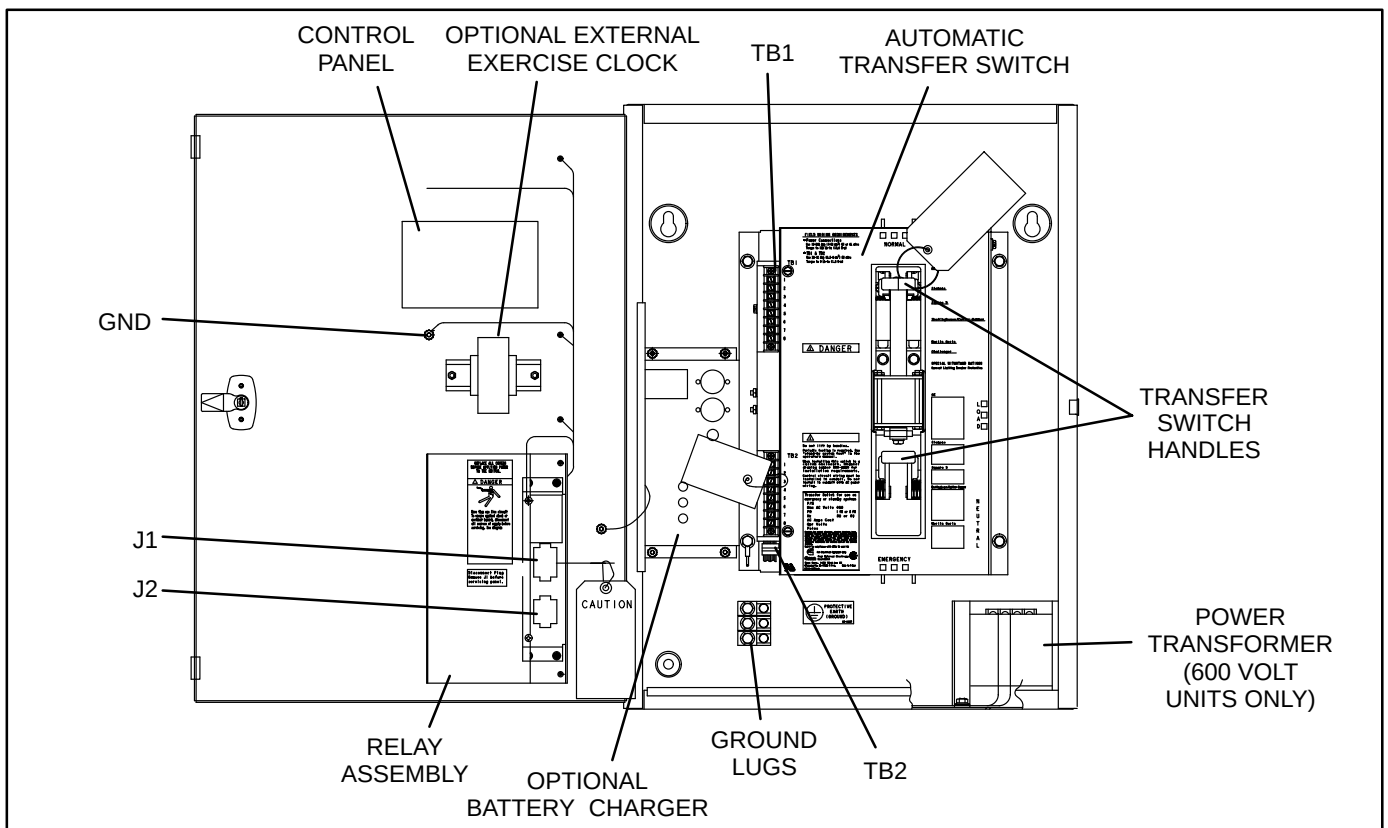


FIGURE 2. INTERIOR/COMPONENTS: 40-125 AMP OTEC TRANSFER SWITCH, TYPE 1 CABINET SHOWN

⚠WARNING The transfer switch presents a shock hazard that can cause severe personal injury or death. Before beginning installation, remove all sources of AC power. If a generator set provides emergency power, move the generator set operation selector switch to Stop, disconnect AC line power, disconnect the battery charger from its AC power source, and disconnect the starting battery (negative [-] lead first).

3. Remove all sources of power from the transfer switch in the following order.

a. Move the operation selector switch on the generator set to Stop. (The selector switch is located on the generator set control panel.)

⚠CAUTION Always disconnect a battery charger from its AC source before disconnecting the battery cables. Otherwise, disconnecting the cables can result in voltage spikes high enough to damage the DC control circuits.

b. If there is an external battery charger, disconnect the battery charger from its AC power source.

⚠WARNING Ignition of explosive battery gases can cause severe personal injury. Do not smoke or cause any spark, arc, or flame while servicing batteries.

⚠WARNING Accidental starting of the genset can cause severe personal injury or death due to electrocution or contact with moving parts. Disconnect the starting battery cables, before performing service. Batteries emit hydrogen, a highly explosive gas. Thoroughly ventilate the battery compartment before removing battery cables. Remove the negative (-) cable (s) first to reduce the risk of arcing.

c. Disconnect the genset starting battery (negative [-] lead first).

⚠WARNING If the cabinet must be opened for any reason, remove AC power to the automatic transfer switch. If the instructions require otherwise, use extreme caution due to the danger of shock hazard.

d. Remove AC power to the automatic transfer switch.

4. Use the provided nuts and washers to mount the terminal rail inside the door (see Figure 3).

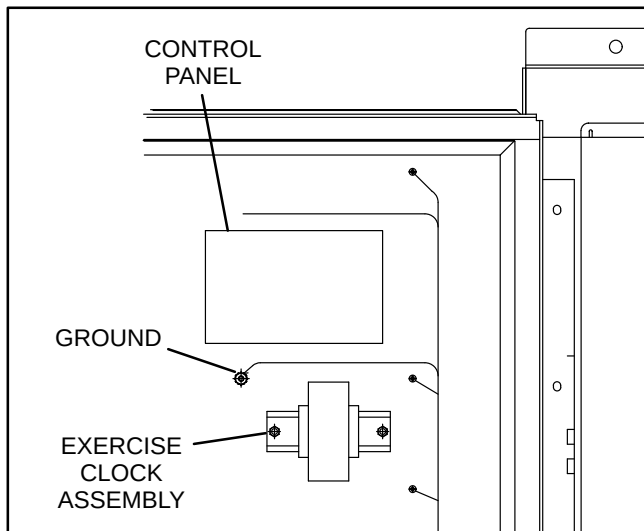


FIGURE 3. EXERCISE CLOCK MOUNTING LOCATION INSIDE DOOR

5. Snap the exercise clock onto the terminal rail.

6. Mount the terminal end brackets onto the terminal rail (see Figure 4). Push the end brackets against the exercise clock and tighten.

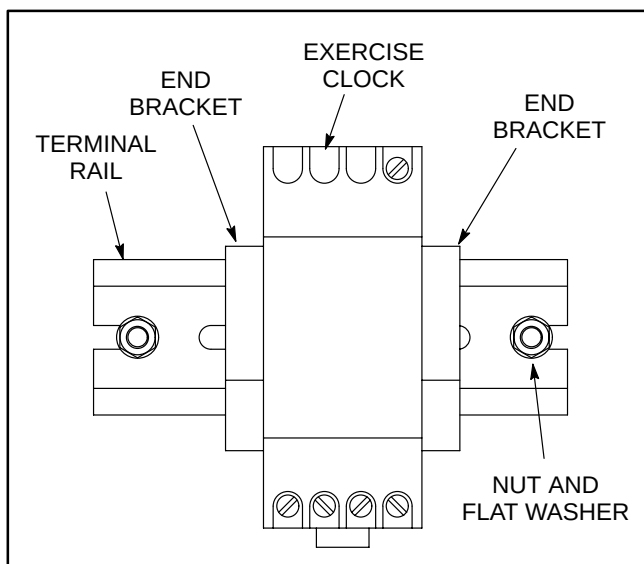


FIGURE 4. EXERCISE CLOCK ASSEMBLY

7. Remove the grounding hardware from the inside of the door, beneath the control panel (see Figure 3).

8. Install the four leads as indicated in Figure 5. Route and attach wiring to the existing harness where possible.
 - a. Use the plier tap terminal to connect the B+ lead (20") to the lead marked J2-8.
 - b. Connect the 20" lead from N/O on the clock to P4-4 on the back of the control panel.
 - c. Use the grounding hardware removed in step 7 to secure the two GND leads (8" and 26") to the door.
 - d. Use wire ties to secure the wires to the existing harness.

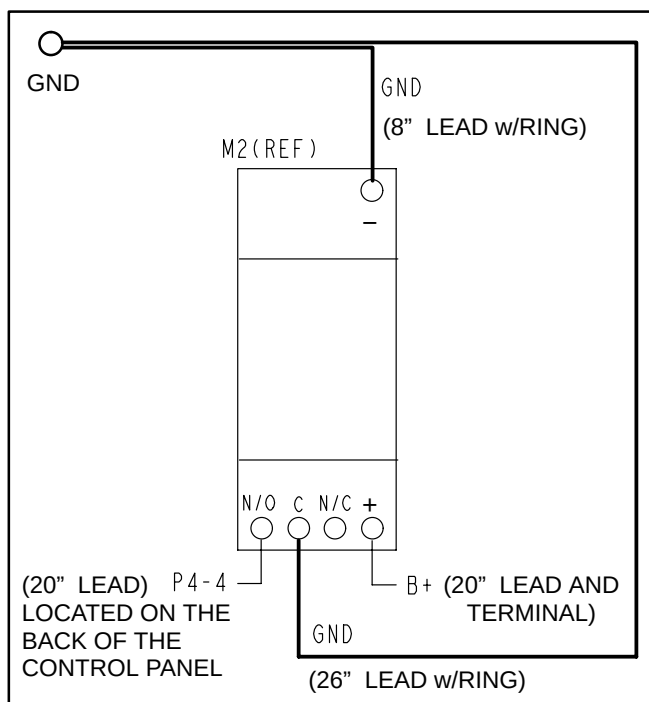


FIGURE 5. EXERCISE CLOCK WIRING

9. Program the clock as described in this instruction sheet (starting on page 5).

⚠ WARNING AC power within the cabinet and the rear side of the cabinet door presents a shock hazard that can cause severe personal injury or death. Use extreme caution to avoid touching electrical contacts whenever the cabinet door is open.

10. Restore power to the transfer switch in the following order.
 - a. Restore power to the automatic transfer switch.
 - b. Reconnect the J1 and J2 connectors.

- c. Connect the genset starting battery (positive [+] lead first).
- d. If there is an external battery charger, connect the battery charger to its AC power source.
- e. Move the operation selector switch on the generator set to the Auto position.

11. Slide the selector switch on the back of the control panel to the **Configuration Mode** position (see Figure 6).
12. Press the **Test** pushbutton on the front of the control panel to scroll through the various control functions until the External Exercise function is selected. When the External Exercise function is selected, the second LED at the top of the control panel is lit.
13. When the External Exercise function is selected, press the **Override** pushbutton to change the value code to "On." When the External Exercise value is set to "On," the last LED at the top of control panel is lit.

FUNCTION CODE	VALUE CODE
○ ● ○ ○ ○	○ ○ ●

NOTE: With the External Exercise function is set to "On," the integrated exerciser is disabled.

14. Press the **Test** pushbutton on the front of the control panel to view the Exercise With/Without Load function and, if desired, press the **Override** pushbutton to change the setting. When the control is set to exercise Without Load, the following LEDs are lit.

FUNCTION CODE	VALUE CODE
○ ● ○ ○ ●	○ ○ ○

When the control is set to exercise With Load, the following LEDs are lit.

FUNCTION CODE	VALUE CODE
○ ● ○ ○ ●	○ ○ ●

15. Return the selector switch on the back of the control panel back to the **Automatic Mode** position.
16. Close the transfer switch door.
17. Check the system for proper operation as described in the Operator's Manual.

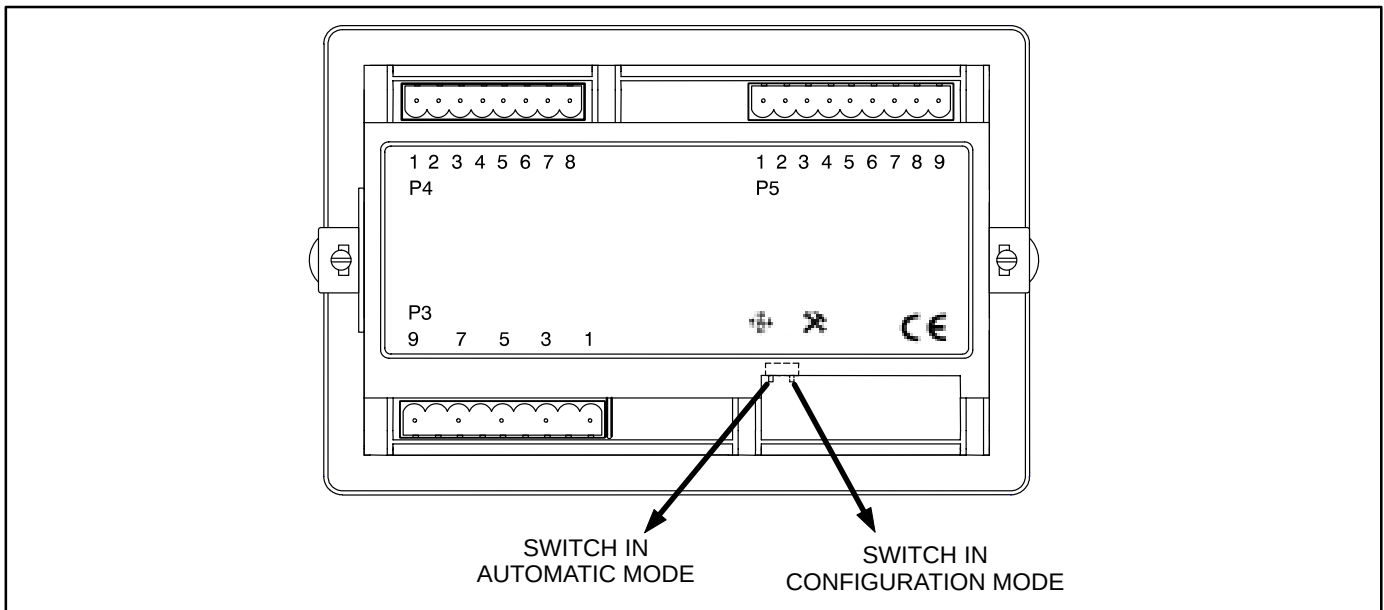


FIGURE 6. NORMAL/CONFIGURATION MODE SELECTOR SWITCH

PROGRAMMING THE EXERCISER CLOCK

The exerciser clock is used to start and run the generator set at programmable intervals and for selected durations. It is a 7-day, 24-hour clock that can store and execute several start/stop programs per day (one minute minimum duration).

Up to 28 programs are available to set exercise start and stop times. One program is required to start an exercise period and a second one is required to stop an exercise period.

The exerciser clock also has a test feature that can be used to initiate a genset start and run cycle.

NOTE: After a period of inactivity, the clock enters sleep mode and turns off the display. To reactivate the display, briefly press the Menu button.

The exerciser clock contains a lithium battery that is used as a backup power source. The battery is not replaceable. When the clock is running off the internal battery, three flashing dots are displayed between the hour and minute values (see Figure 7). Unless the clock battery fails, exercise programs are stored and are not lost during a power outage.

Figure 8 illustrates the face of the exercise clock and provides information on the display and the function of the buttons.

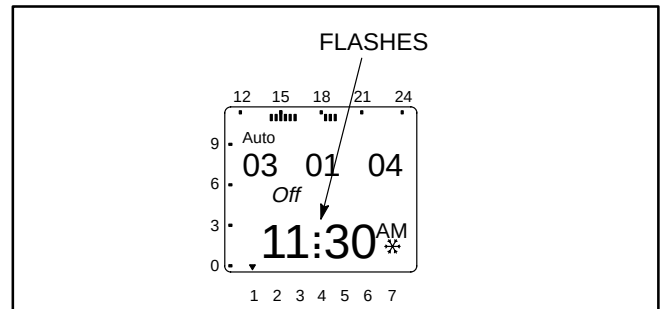


FIGURE 7. INDICATOR OF CLOCK RUNNING OFF THE INTERNAL BATTERY

The clock is programmed with the correct date and central USA standard time and with the correct day-light savings time settings. Programming the exerciser clock requires entering the exercise start and stop times and, if necessary, adjusting the time as described on the following pages.

Exercise With or Without Load

The external exercise clock does not include an exercise with or without load function. This function must be configured using the transfer switch control panel. Configuration of the control panel can be done after the clock is programmed and power to the control is restored. Information on configuring the control panel is included in the transfer switch *Operator's Manual*.

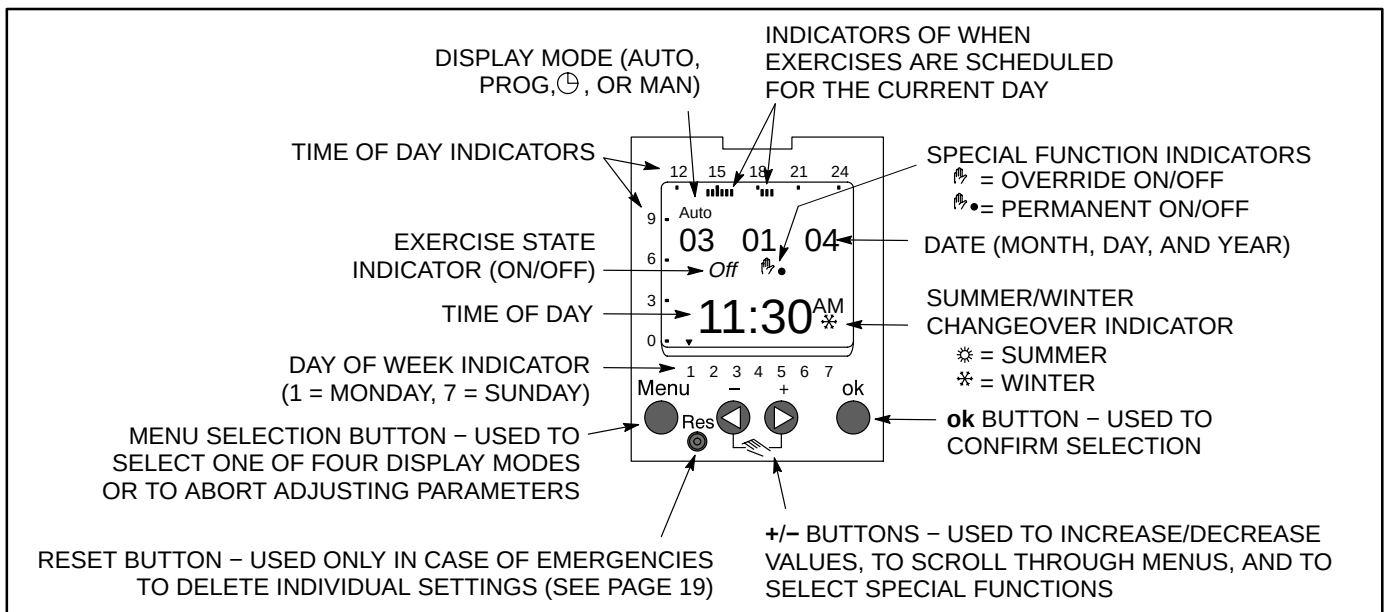


FIGURE 8. EXERCISE CLOCK FEATURES

Using the Menu Button

The Menu selection button is used to select three display modes that have adjustable menus.

- The Clock mode (☹) is used to set the correct date and time. This mode can also be used to automatically switch to the correct summer/winter time. See page 7.
- The Program mode (Prog) is used to set (see page 9), review (see page 12), and clear exercise start/stop times (see pages 14 and 15).
- The Manual mode (Man) is used to enter a 4-digit code to prevent changing settings by unauthorized personnel. See page 18.

When adjustments are completed, the Home menu (Auto mode) is redisplayed (see Figure 8). The Menu button can also be used to abort adjusting parameters and return to the Home menu.

Using the +/- Buttons

Pressing the + or - button:

- Increases or decreases a parameter in an adjustable menu
- Selects the next or previous menu.

When the Home menu is displayed, the following special functions can be selected by simultaneously pressing the + and - buttons.

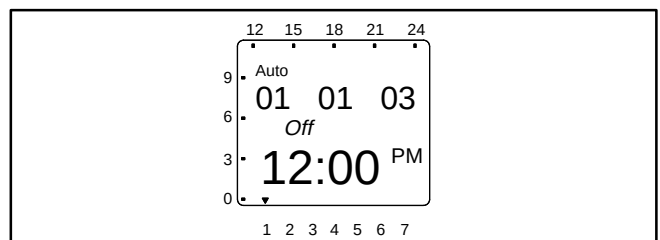
- Initiate an exercise (see page 16)
- Override an active exercise (see page 16)
- Select permanent on/off mode (see page 17)

Using the ok Button

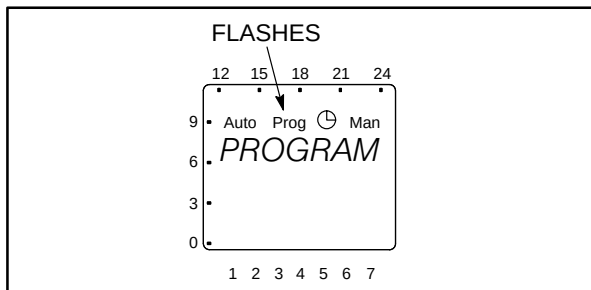
The **ok** button is used to confirm the menu selection or program adjustments you have made. Upon pressing the **ok** button, the next available menu is displayed and, if any program adjustments were made, the changes are saved.

Setting the Clock with Summer/Winter Time (Daylight Savings Time)

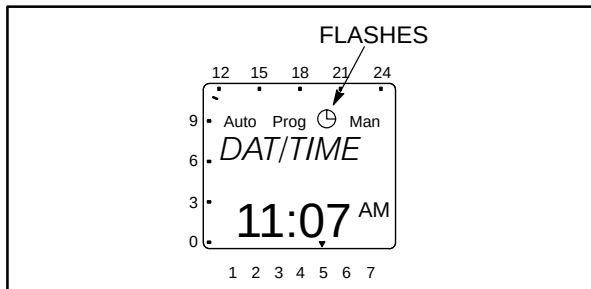
The clock is programmed with the correct date and central USA standard time and with the correct daylight savings time settings. If it is necessary to change these settings, the following describes how to adjust the time and date and how to set the clock to automatically switch to summer/winter time (daylight savings time).



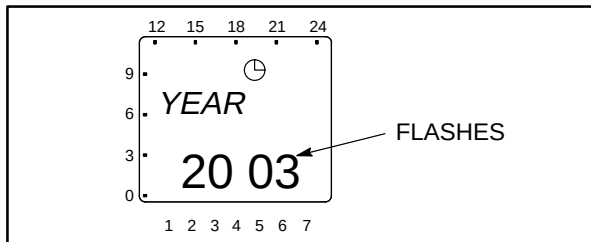
1. Press the Menu button on the exercise clock. The Program menu is displayed.



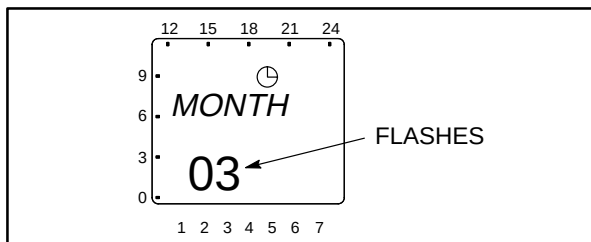
2. Press the + button. The Date/Time menu is displayed.



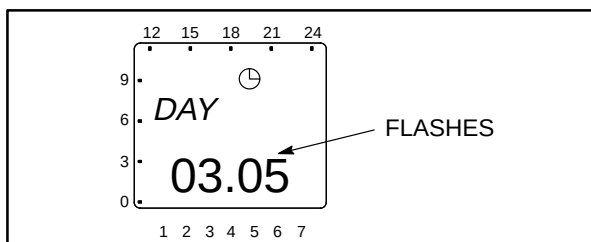
3. Press the ok button to display the Year menu.



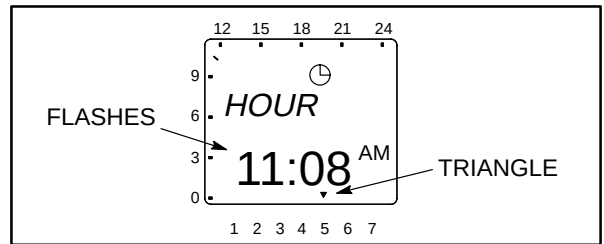
4. Press the + or - button to set the correct year. Press the ok button to display the Month menu.



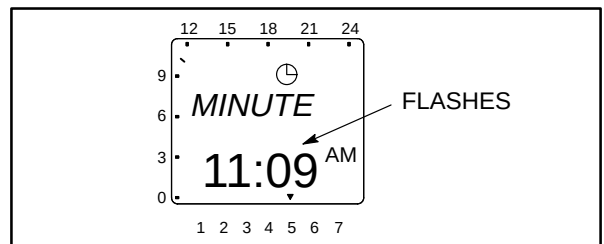
5. Press the + or - button to set the correct month. Press the ok button to display the Day menu.



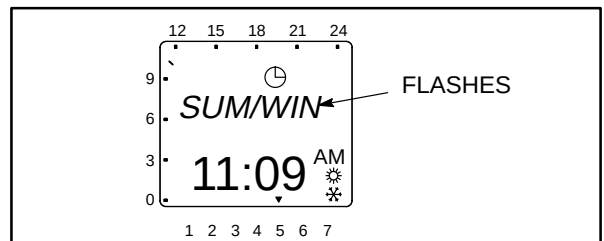
6. Press the + or - button to set the correct day. Press the ok button to display the Hour menu. A small triangle is displayed above the assigned number in the display for the day of the week (1 = Monday, 7 = Sunday).



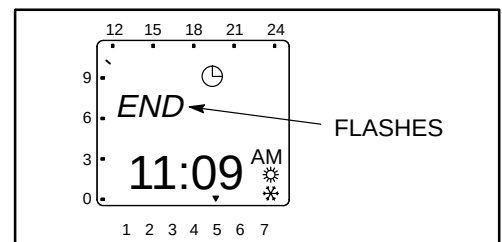
7. Press the + or - button to set the correct hour. A line is displayed on the screen indicating the hour of the day selected (the left side of the screen is for the first half of the day [AM] and the top of the screen is for the second half of the day [PM]). Press the ok button to display the Minute menu.



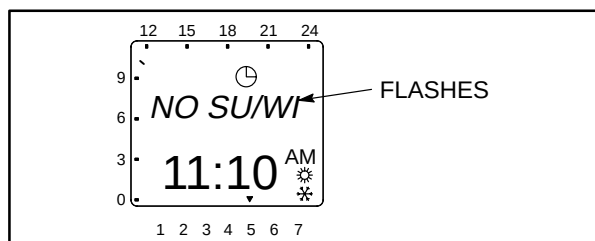
8. Press the + or - button to set the correct minute. Press the ok button to display the Summer/Winter menu.



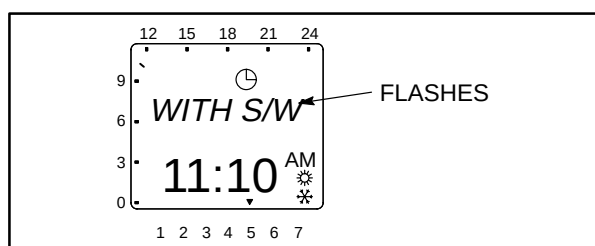
NOTE: If you do not wish to set the clock for automatic summer/winter changeover at this time, press the + or - button. "End" is displayed on the screen. Press the ok button to return to the Home menu.



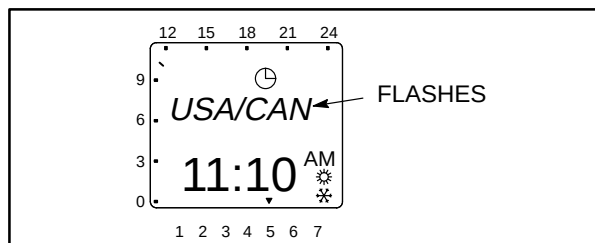
9. Press the **ok** button to display the No Summer/Winter menu.



10. Press the **+** or **-** button to display the With Summer/Winter menu.



11. Press the **ok** button to display the World Area menu.

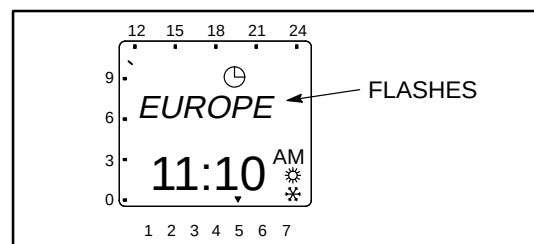


12. Either select one of the world areas that has been programmed for automatic time correction or else set up your own changeover times.

NOTE: With the Daylight Savings Time program set for North America,

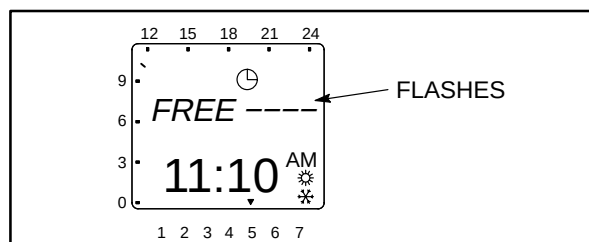
- The first Sunday in April moves the time forward one hour.
- The last Sunday in October moves the time back one hour.

- If you wish to select one of the world areas (Europe, GP/P, SF/GR/TR, USA/CAN) that has been programmed for automatic time correction, press the **+** or **-** buttons until the correct world area is selected. Go to step 19.

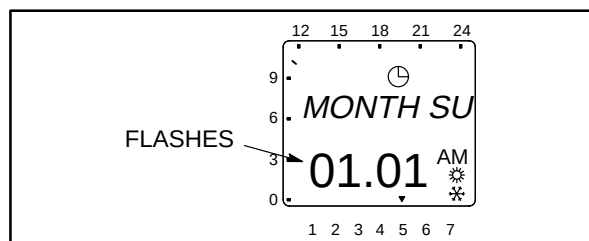


- If you wish to set up your own changeover times, continue with step 13.

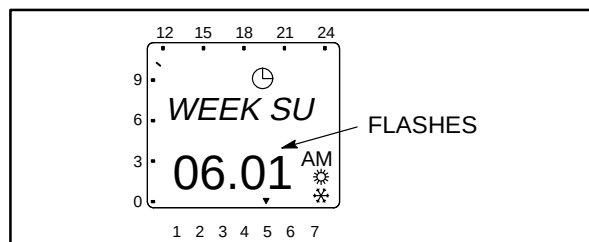
13. To set up your own changeover times, press the **+** or **-** buttons from the World Area menu until the word "Free" is displayed.



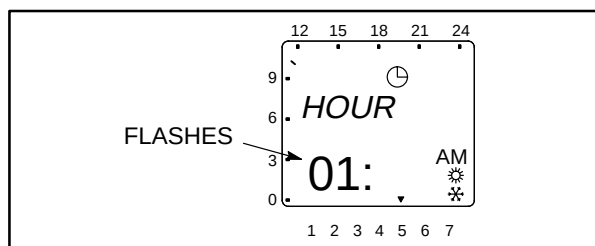
14. Press the **ok** button to display the menu for setting the month when the Summer changeover will take place. Press the **+** or **-** buttons until the desired month is displayed.



15. Press the **ok** button to display the menu for setting the week when the Summer changeover will take place. Press the **+** or **-** buttons until the desired week (1 thru 5 [1 = first week, 4 = fourth week, 5 = last week]) is displayed.

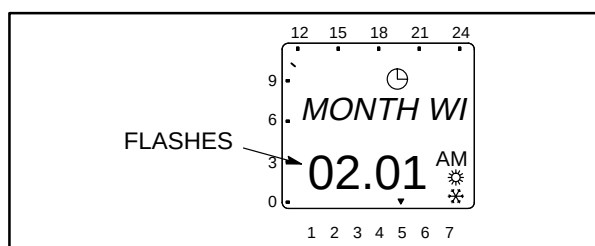


16. Press the **ok** button to display the menu for setting the hour of the day when the Summer changeover will take place. Press the **+** or **-** buttons until the desired hour (1 thru 3) is displayed.

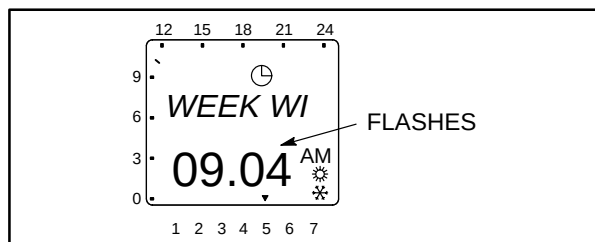


NOTE: The starting time can only be set for 1:00, 2:00, or 3:00 AM.

17. Press the **ok** button to display the menu for setting the month when the Winter changeover will take place. Press the **+** or **-** buttons until the desired month is displayed.

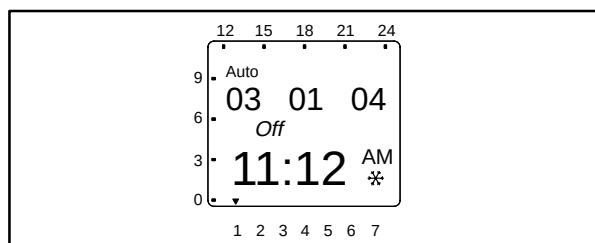


18. Press the **ok** button to display the menu for setting the week when the Winter changeover will take place. Press the **+** or **-** buttons until the desired week (1 thru 5 [1 = first week, 4 = fourth week, 5 = last week]) is displayed.



NOTE: The starting time for the winter changeover is the same time that was set in step 16.

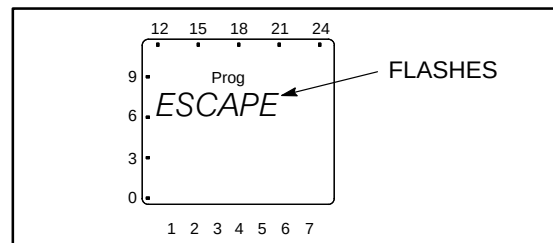
19. Press the **ok** button. The Home menu is redisplayed and the appropriate summer/winter symbol is displayed.



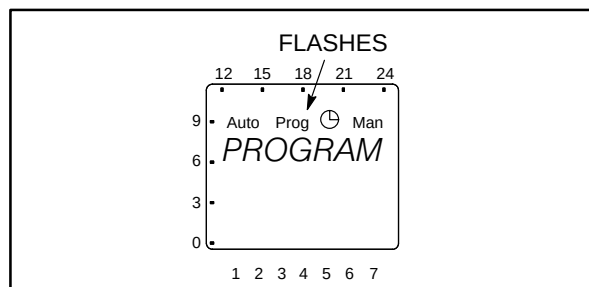
Setting Exercise Start and Stop Times

Up to 28 programs can be used to set exercise start and stop times. One program is required to start an exercise period and a second one is required to stop an exercise period.

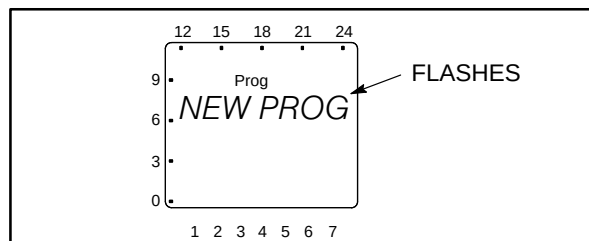
NOTE: If the Menu button is pressed before a Start/Stop program is saved, the word "Escape" is displayed on the screen. The program settings are lost and the Home menu is displayed after two seconds or by pressing the **ok** button.



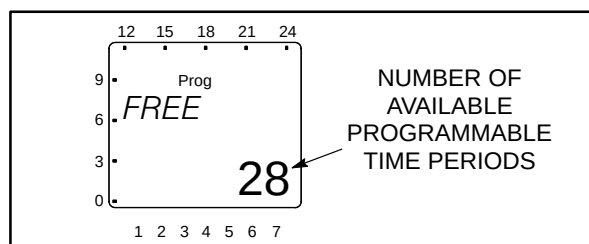
1. From the Home menu, press the **Menu** button. The Program menu is displayed.



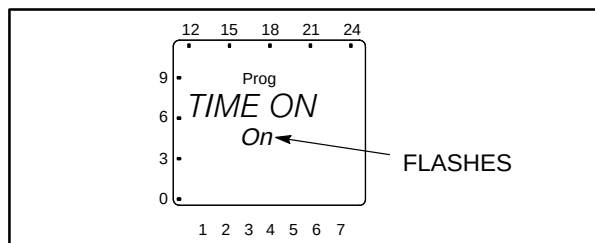
2. Press the **ok** button. The New Program menu is displayed.



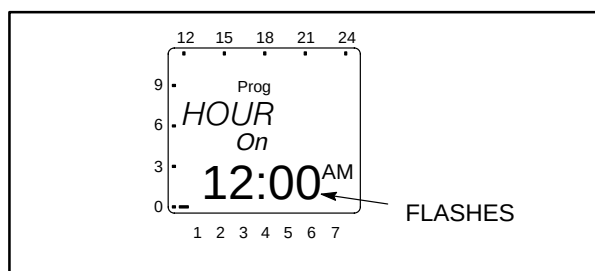
3. Press the **ok** button. The number of available programmable time periods (maximum of 28) is temporarily displayed.



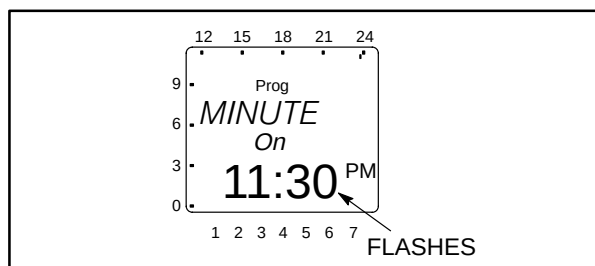
4. The Starting Time (Time On) menu is displayed. Press the **ok** button.



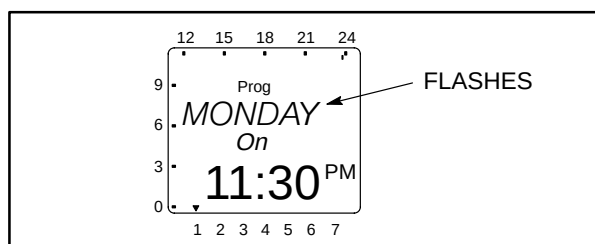
5. The Hour menu is displayed. Press the **+** or **-** buttons to set the desired exercise starting hour (default = 12:00 AM). A line is displayed on the screen indicating the hour of the day selected (the left side of the screen is for the first half of the day [AM] and the top of the screen is for the second half of the day [PM]). Press the **ok** button.



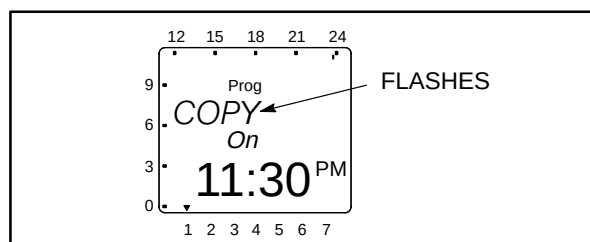
6. The Minute menu is displayed. Press the **+** or **-** buttons to set the desired exercise starting minute. Press the **ok** button.



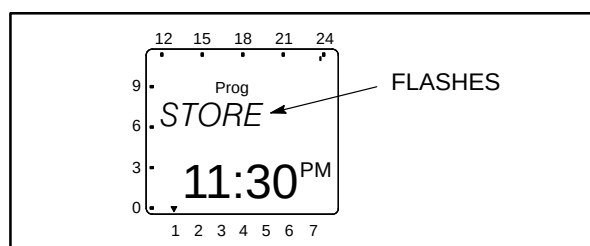
7. A menu is displayed for selecting the day of the week the exercise is to begin (default = Monday). Press the **+** or **-** buttons to select the desired day of the week. A small triangle is displayed above the assigned number in the display for the day of the week (1 = Monday, 7 = Sunday). Press the **ok** button.



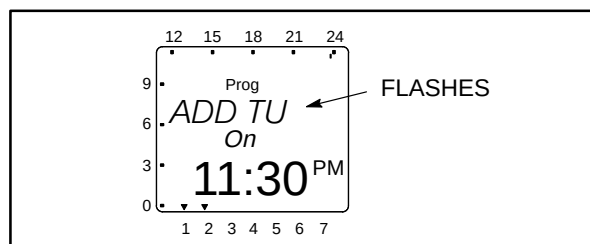
8. The Copy menu is displayed. If you do not wish to have the exercise repeat more than once a week, go to step 9. If you do wish to have the exercise repeat more than once a week, go to step 10.



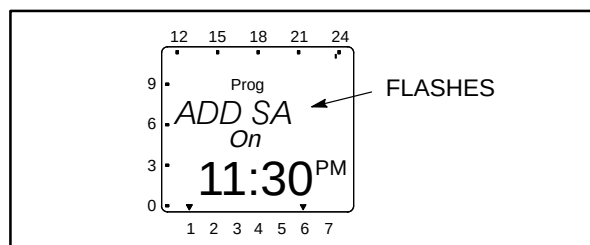
9. Press the **+** or **-** buttons. The Store menu is displayed. Press the **ok** button. Go to step 13.



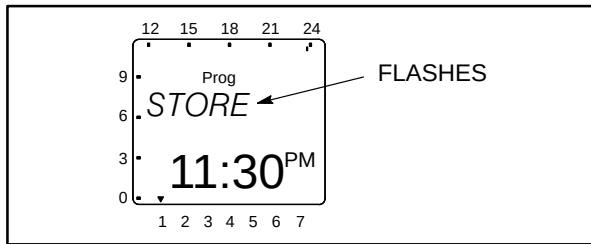
10. To repeat an exercise more than once a week, press the **ok** button when the Copy menu is displayed. The Add ___day menu is displayed. The day after the day selected in step 7 is displayed.



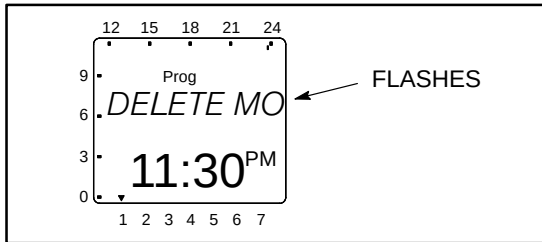
11. Press the **+** or **-** buttons to select the desired day of the week that an exercise is to begin. Press the **ok** button.



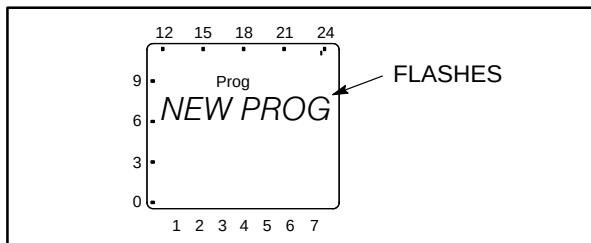
12. Press the **+** or **-** buttons. The Store menu is displayed. Press the **ok** button.



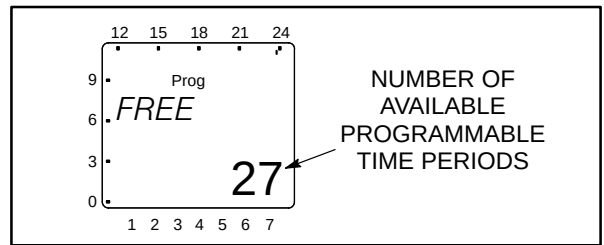
NOTE: After setting all days of the week that an exercise is to be repeated, you can use the **+** or **-** buttons to cycle through the days and recheck the programs. When a day that has a set program is redisplayed, it can be deleted. In the menu shown below, press the **ok** button to delete the displayed program.



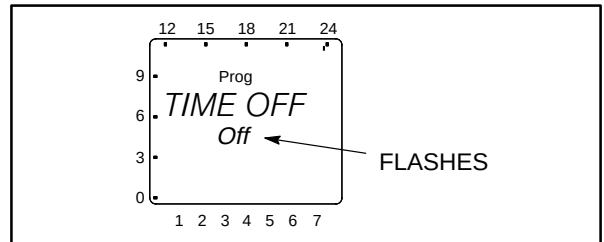
13. The New Program menu is redisplayed.



14. Press the **ok** button to enter a time the exercise is to end. The number of available programmable time periods is temporarily displayed. Please note that the number of available programmable time periods has now decreased by one.

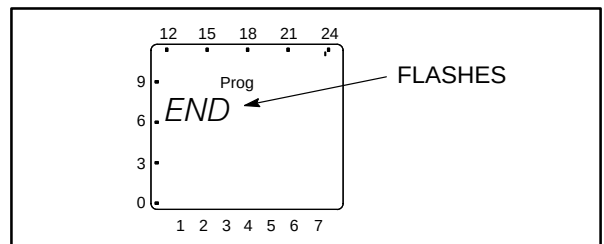


15. The Ending Time (Time Off) menu is displayed. Press the **ok** button.



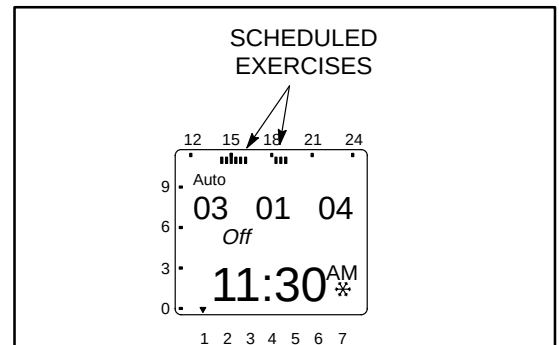
16. Repeat steps 5 thru 13 to set the stop time for your exercise.

17. When the New Program menu is redisplayed, press the **+** or **-** buttons until "End" is displayed.



18. Press the **ok** button to return to the Home menu.

NOTE: If there are any exercises scheduled for the current day, those time periods are indicated on the screen.



Checking the Programs

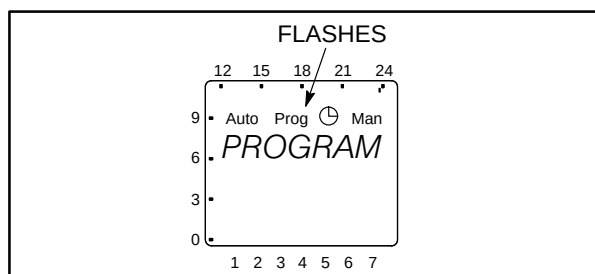
The Check Program menu can be used to review all set exercise start/stop times and, if necessary, delete them.

NOTE: If the Menu button is pressed while viewing start/stop programs, the Program Check function is aborted and the Home menu is redisplayed.

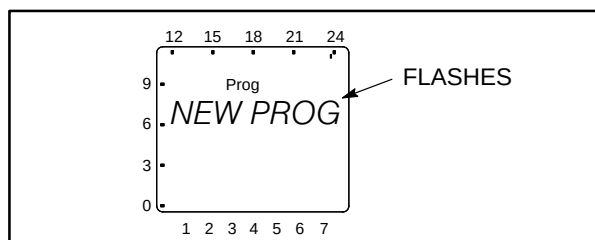
Reviewing Exercise Start/Stop Times

All exercise start and stop exercise parameters can be viewed from the Program Check menu. Normally, the starting time is followed by the ending time for a programmed exercise. However, if a second exercise period overlaps the time frame of the first exercise period in the current day, two start times are displayed, followed by two stop times.

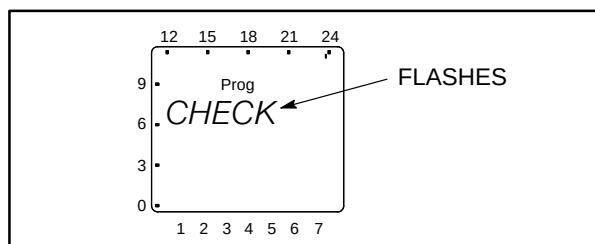
1. From the Home menu, press the **Menu** button. The Program menu is displayed.



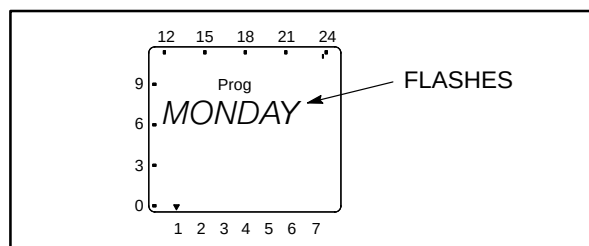
2. Press the **ok** button. The New Program menu is displayed.



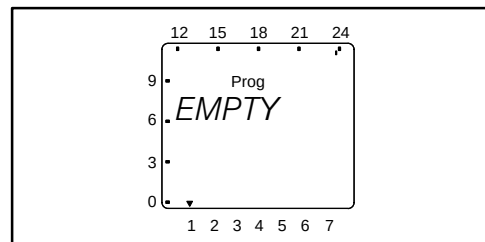
3. Press the **+** button once. The Check menu is displayed.



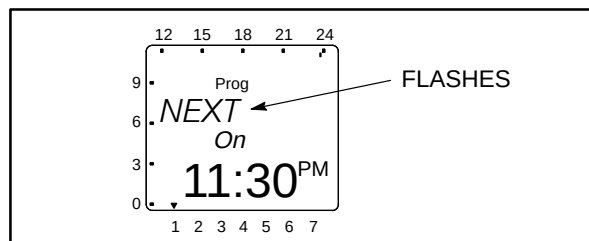
4. Press the **ok** button. The Monday menu is displayed.



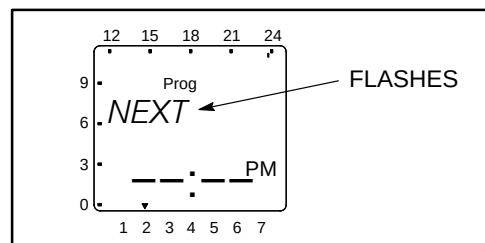
NOTE: If no exercise periods are set up, the message "Empty" is displayed. To return to the New Program menu, press the **ok** button.



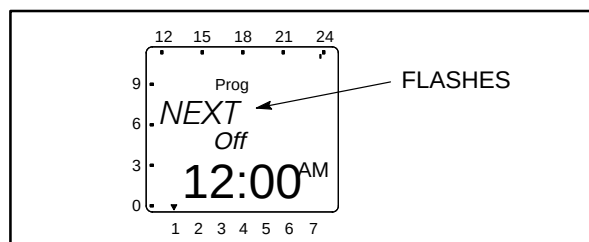
5. Use the **+** or **-** buttons to select the day of the week you wish to check. Press the **ok** button. The starting time for the first exercise for the selected day is displayed.



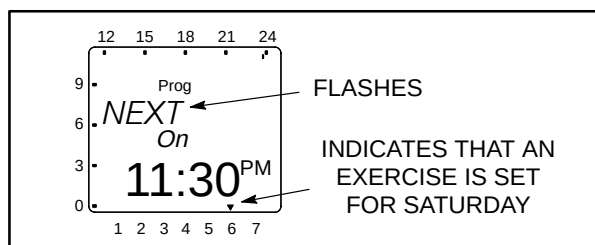
NOTE: If a day does not have any set exercise periods, the screen below is displayed.



6. Press the **ok** button. The ending time for the first exercise for the selected day is displayed.

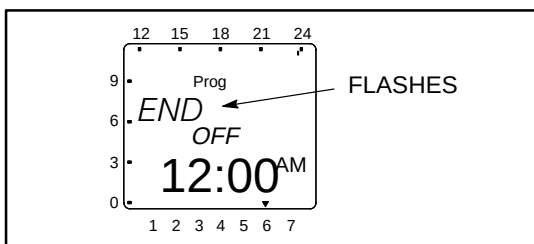


7. Press the **ok** button. The next exercise start time is displayed. If the next start time is not on the day selected in step 5, the day of the week is indicated on the bottom of the screen.

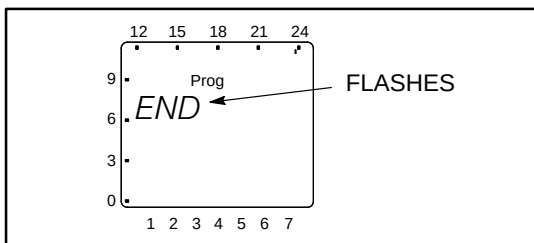


8. Review additional set exercise periods and return to the Main menu.

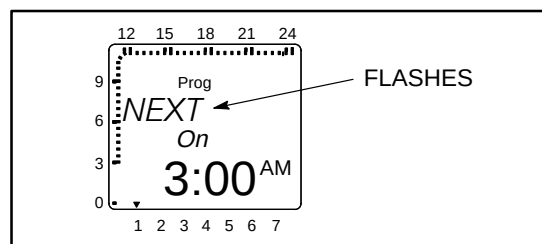
- To exit the Check Programs function without reviewing all set exercise periods, press the **+** or **-** buttons until "END" is displayed. Press the **ok** button to return to the Main menu.



- To review all set exercise periods, repeat steps 6 and 7 until the word "END" is displayed. Press the **ok** button to return to the Main menu.



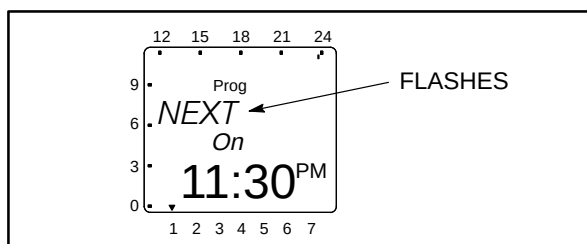
NOTE: If an exercise period has been programmed with a start time only, a continuous band of segments is displayed on the left side and top of the screen showing the time of day the incomplete exercise period is set to begin. This band of segments is also displayed on any other exercise periods scheduled for that day.



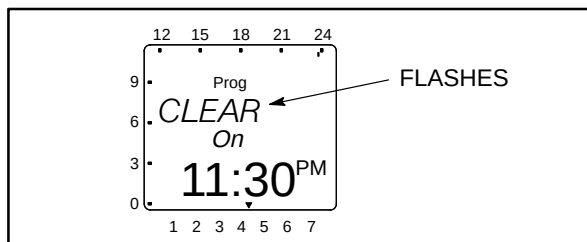
If an exercise period has been programmed with a stop time only, no special indicator is displayed. The stop time is simply ignored.

Deleting Exercise Start/Stop Times

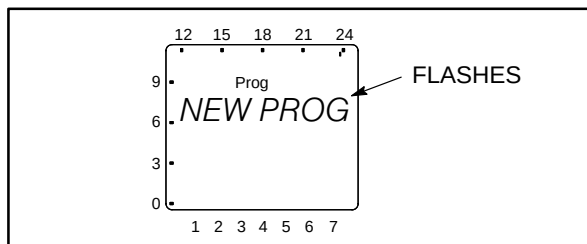
While checking the programs, you can also delete individual start and stop times.



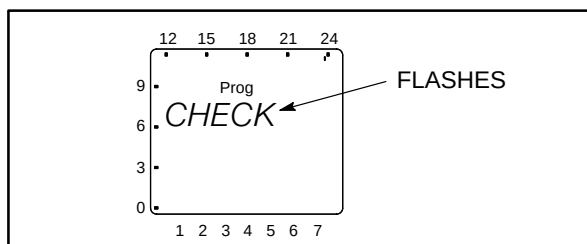
1. When an programmed exercise start time is displayed, press the **+** or **-** buttons until "Clear" is displayed.



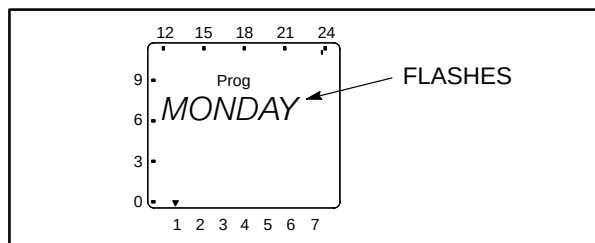
2. Press the **ok** button. The New Program menu is redisplayed.



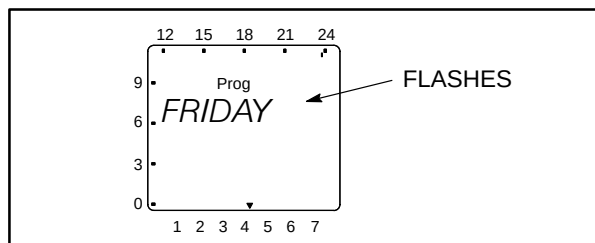
3. Press the **+** button once. The Check menu is displayed.



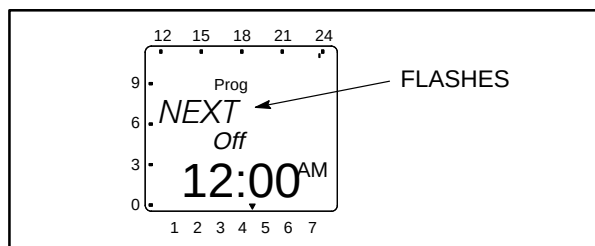
- Press the **ok** button. The Monday menu is displayed.



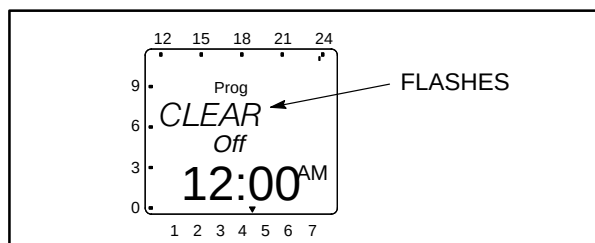
- If necessary, use the **+** or **-** buttons to select the day of the week that includes the exercise ending time you wish to delete.



- Press the **ok** button.



- Press the **+** or **-** buttons until "Clear" is displayed.



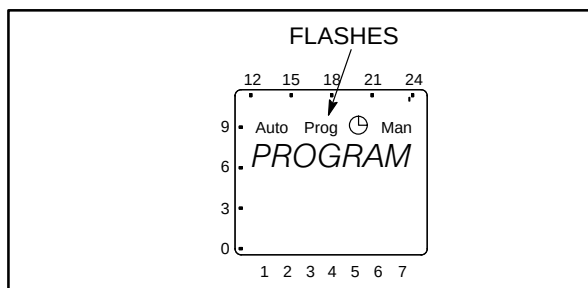
- Press the **ok** button. The New Program menu is redisplayed.

Individual or all exercise periods can also be cleared. For more information, see "Erasing (Clear-

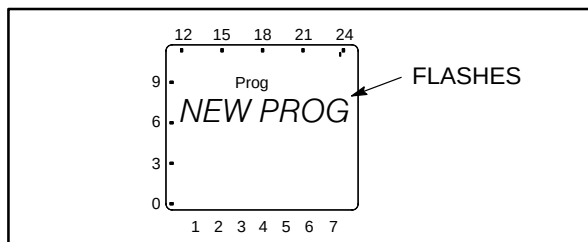
ing) A Programmed Exercise Period" and "Erasing (Clearing) All Exercise Periods" below.

Erasing (Clearing) A Programmed Exercise Period

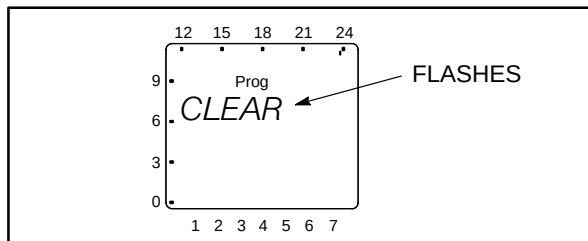
- From the Home menu, press the **Menu** button. The Program menu is displayed.



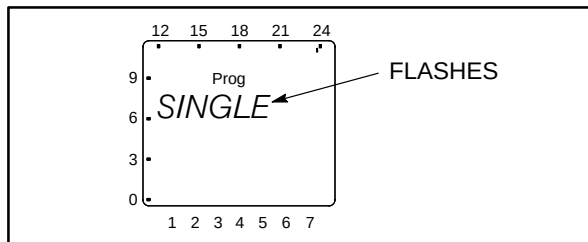
- Press the **ok** button. The New Program menu is displayed.



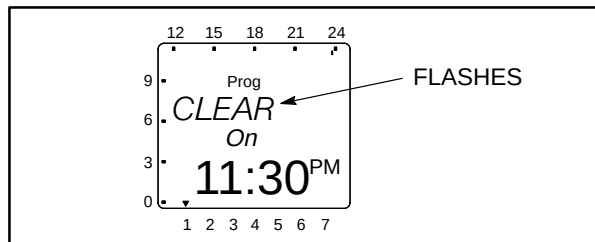
- Press the **+** or **-** button until the Clear menu is displayed.



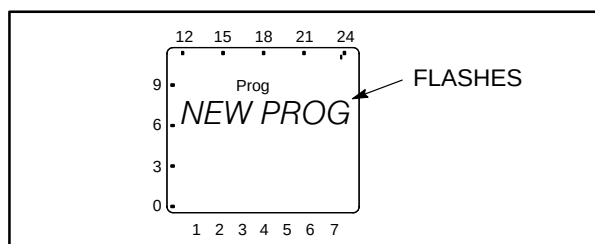
- Press the **+** or **-** button until "Single" is displayed.



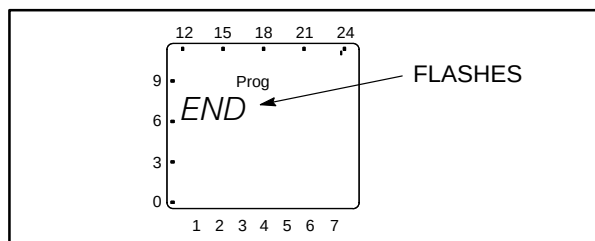
- Press the **ok** button. The first exercise start time of the week is displayed. To select a different exercise start time, press the **+** or **-** buttons until the desired time is displayed.



- Press the **ok** button. The New Program menu is redisplayed.



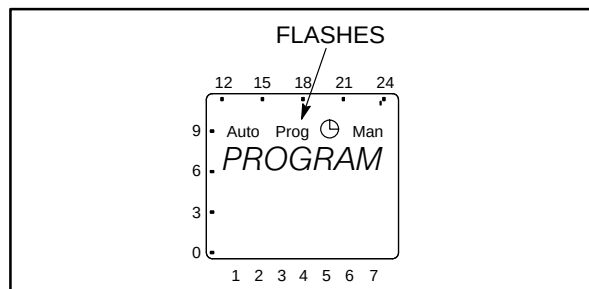
- Repeat steps 3 thru 6 to erase the stop time for the exercise period erased above.
- If necessary, repeat steps 3 thru 7 for any additional exercise periods that need to be erased.
- When the New Program menu is redisplayed, press the **+** or **-** buttons until the word "END" is displayed.



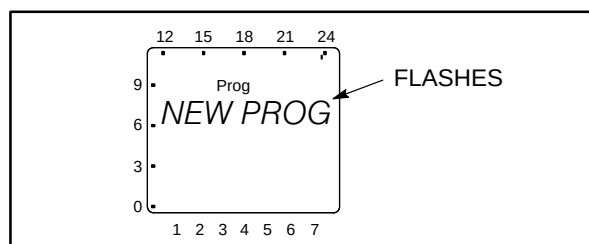
- Press the **ok** button to return to the Home menu.

Erasing (Clearing) All Programmed Exercise Periods

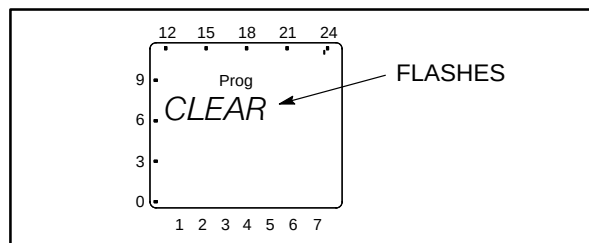
- From the Home menu, press the **Menu** button. The Program menu is displayed.



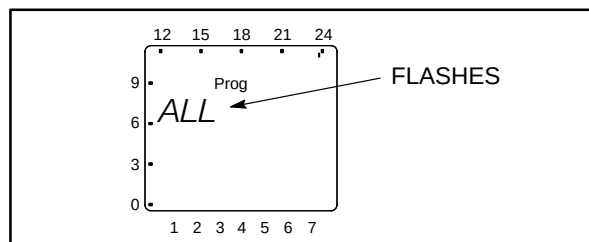
- Press the **ok** button. The New Program menu is displayed.



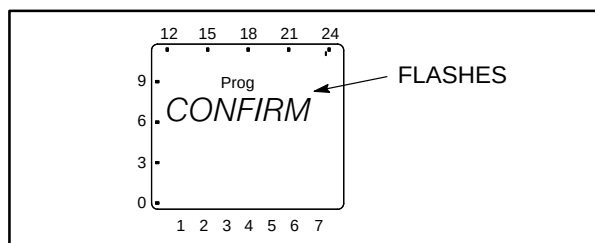
- Press the **+** or **-** buttons until the Clear menu is displayed.



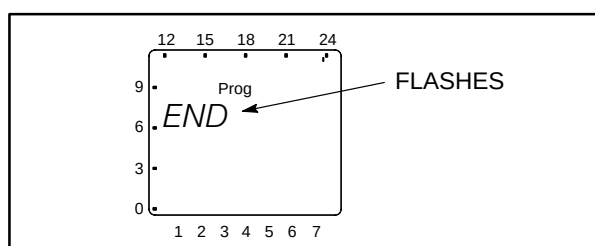
- To clear all set exercise periods, press the **+** or **-** buttons until "All" is displayed. Press the **ok** button.



- The word "Confirm" is displayed. To continue clearing all exercise programs, press the **ok** button. To abort clearing all exercise programs, press the **+** or **-** buttons.



- The new program menu is redisplayed. Press the **+** or **-** buttons until the word "END" is displayed.



- Press the **ok** button to return to the Home menu.

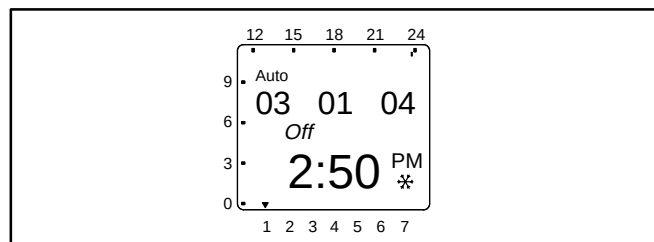
Initiating or Overriding an Exercise Program

The exercise clock has a built-in test feature that can be used to initiate an exercise that hasn't been programmed or cancel a programmed exercise in process.

The control panel Load/No Load function can be set to test the genset with or without load, as desired.

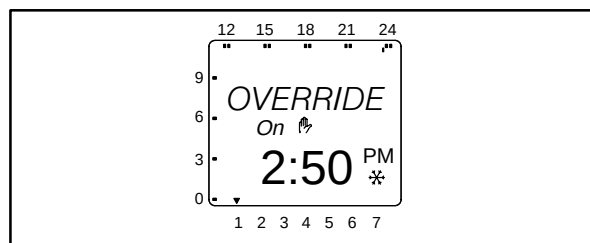
Initiating an Exercise

In the example shown below, "Off" indicates that no exercise is currently active.

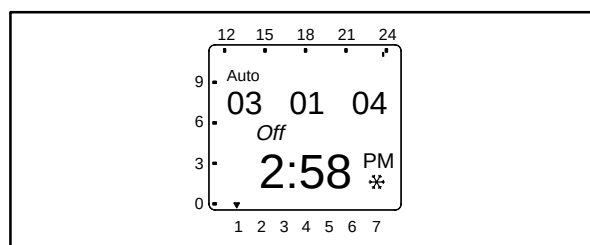


- With the Home menu displayed, simultaneously press the **+** and **-** buttons for approximately

one second. "Override" and a hand symbol  are displayed on the screen. In addition, "Off" is switched to "On" and the exercise is initiated.

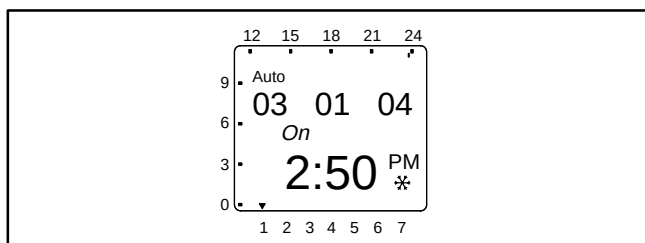


- To end the exercise, simultaneously press the **+** and **-** buttons for approximately one second. The original Home menu is redisplayed and "On" is switched back to "Off."

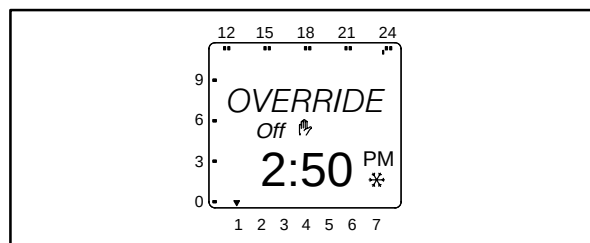


Overriding an Exercise

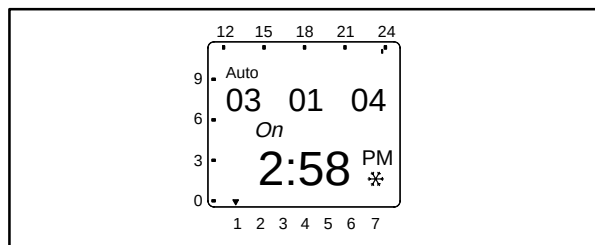
In the example shown below, "On" indicates that an exercise is currently active.



- With the Home menu displayed, simultaneously press the **+** and **-** buttons for approximately one second. "Override" and a hand symbol  are displayed on the screen. In addition, "On" is switched to "Off" and the exercise is stopped.



2. To restart the exercise, simultaneously press the + and – buttons for approximately one second. The original Home menu is redisplayed and “Off” is switched back to “On.”

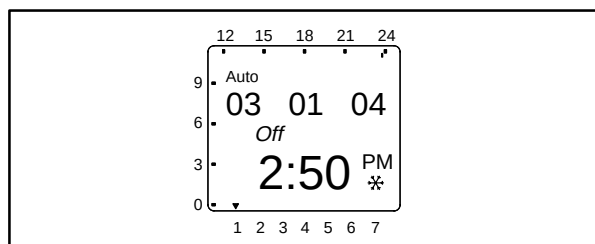


Selecting Permanent On/Off Mode

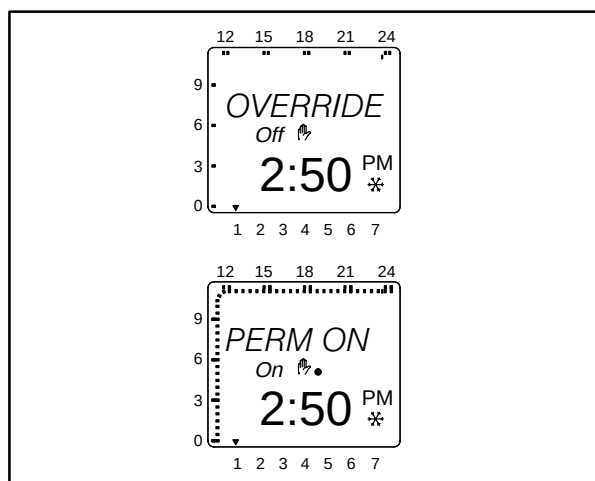
The exercise clock has a permanent on/off mode feature.

Selecting Permanent On/Off Mode Without an Active Exercise

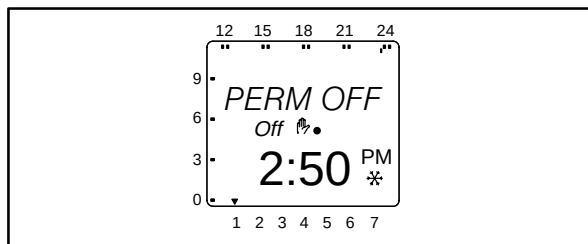
In the example shown below, “Off” indicates that no exercise is currently active.



1. With the Home menu displayed, simultaneously press the + and – buttons for approximately two seconds. The Override menu is first displayed and then the “Perm On” and the hand/dot symbols  are displayed on the screen. In addition, a continuous band of segments is displayed on the left side and top of the screen and “Off” is switched to “On.”



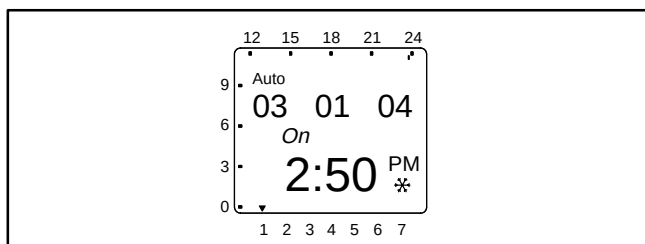
2. To switch to Permanent Off mode, press the + and – buttons for approximately two seconds. “Perm Off” is displayed and “On” is switched back to “Off.”



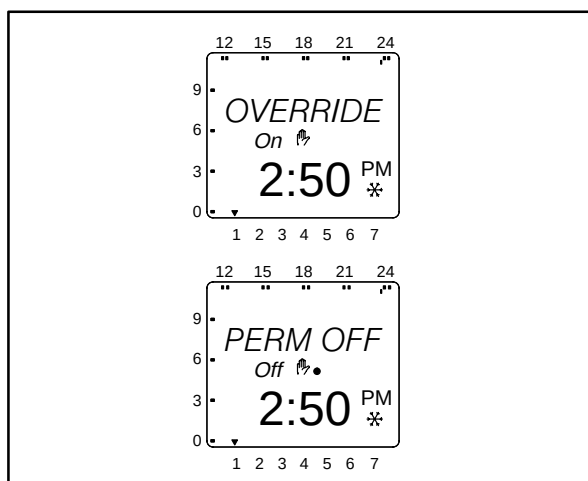
3. To return the clock to its original state, simultaneously press the + and – buttons for approximately one second. The original Home menu is redisplayed.

Selecting Permanent On/Off Mode With an Active Exercise

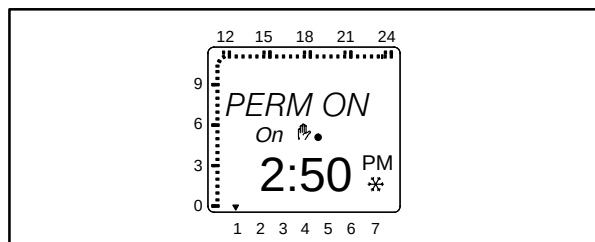
In the example shown below, “On” indicates that an exercise is currently active.



1. With the Home menu displayed, simultaneously press the + and – buttons for approximately two seconds. The Override menu is first displayed and then the “Perm Off” and the hand/dot symbols  are displayed on the screen. In addition, “On” is switched to “Off.”



- To switch to Permanent On mode, press the **+** and **-** buttons for approximately two seconds. "Perm On" is displayed and "Off" is switched back to "On." In addition, a continuous band of segments is displayed on the left side and top of the screen.



- To return the clock to its original state, simultaneously press the **+** and **-** buttons for approximately one second. The original Home menu is redisplayed.

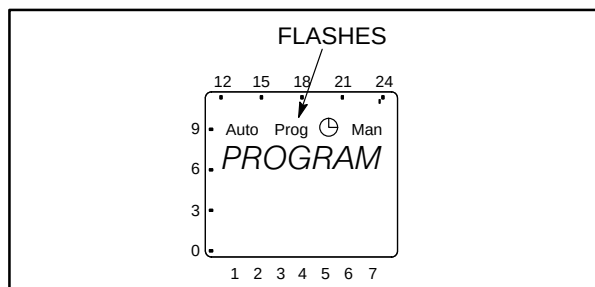
Adding A Security Code

A 4-digit security code number can be entered to prevent unauthorized personnel from using the clock.

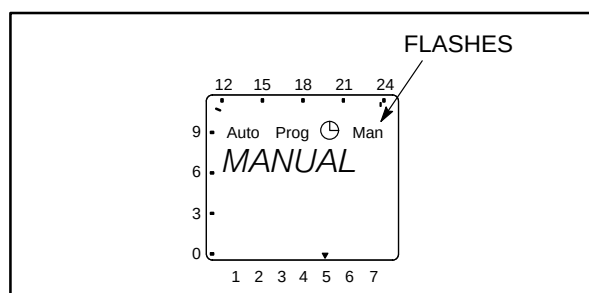
Once a security code has been set up, the exercise clock is locked 90 seconds after the last keystroke. It can only be operated again after the correct PIN code is entered.

CAUTION *Once a PIN code has been activated and the Reset button is pressed (see "Resetting the Timer" on the following page), the exercise timer can no longer be activated without a valid PIN code. The device must be replaced if the valid PIN code is lost.*

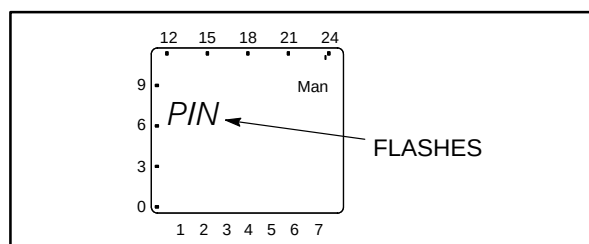
- From the Home menu, press the **Menu** button. The Program menu is displayed.



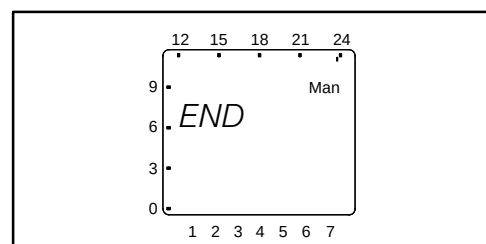
- Press the **+** button twice. The Date/Time menu is displayed, followed by the Manual menu.



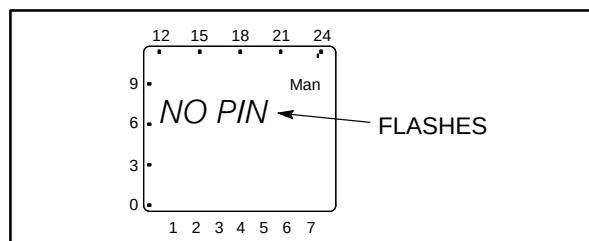
- Press the **ok** button to display the Pin menu.



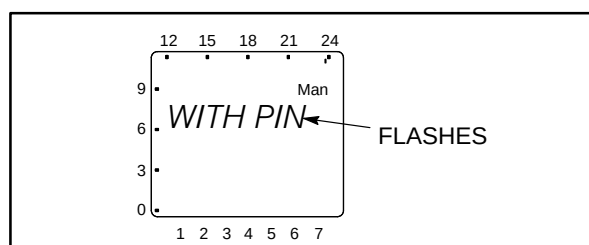
NOTE: If the **+** or **-** button is pressed now, the message "End" is displayed. Press the **ok** button to return to the Home menu.



- Press the **ok** button to display the No PIN menu.

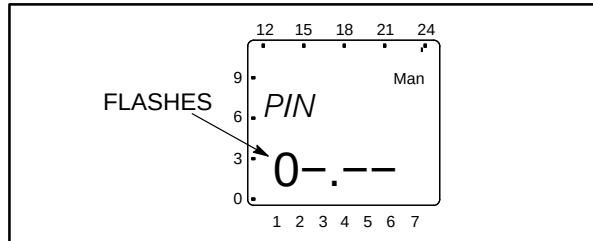


- Press the **+** or **-** buttons to display the With PIN menu.



- Press the **ok** button to display the PIN Number menu.

NOTE: If you choose not to enter a 4-digit access code at this time, the only way to exit Manual mode is to press the reset (Res) button.

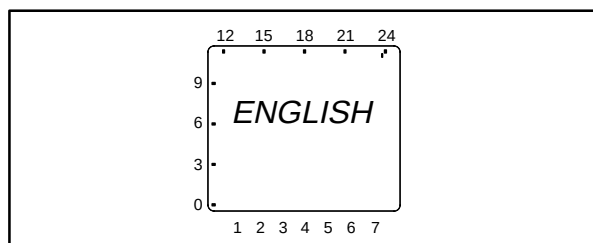


- Press the **+** or **-** buttons to enter the first digit of your 4-digit access code.
- Press the **ok** button. Then press the **+** or **-** buttons to enter the second digit of your 4-digit access code.
- Repeat step 8 for the third and fourth digit of your 4-digit access code.
- Press the **ok** button. The Home menu is then redisplayed.

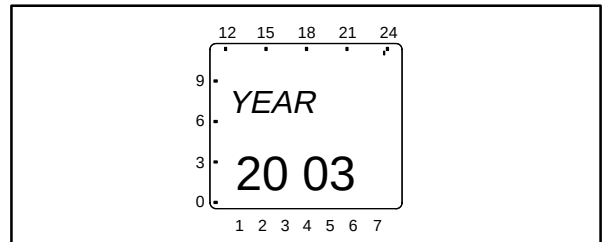
Resetting the Timer

The Reset button should only be used in cases of an emergency. **Resetting the timer erases all existing language, date, and time settings. Therefore, that information will need to be reentered.** Upon pressing the **Res** button, the clock is set to 12:00 midnight, Wednesday, January 1, 2003. However, **scheduled exercise periods remain intact.**

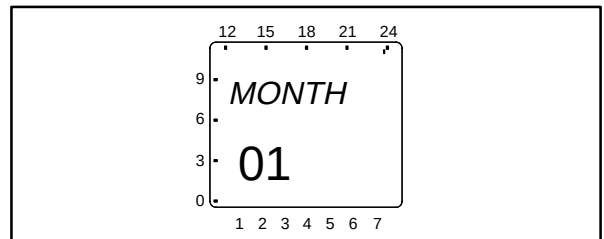
- Use a pointed object to press the **Res** button for approximately one second. Two information screens are displayed and the default national language is flashed.



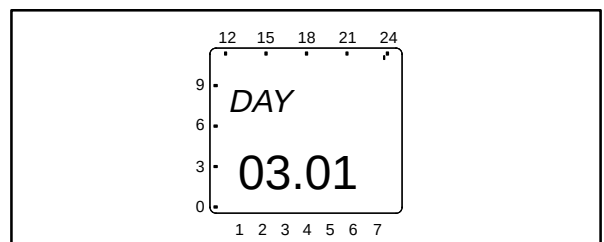
- If the incorrect language is being displayed, use the **+** or **-** button to scroll through the available languages (English, Espanol, Francais, Portugal, Italiano, or Deutsch).
- When the desired language is displayed, press the **ok** button. The year is displayed next.



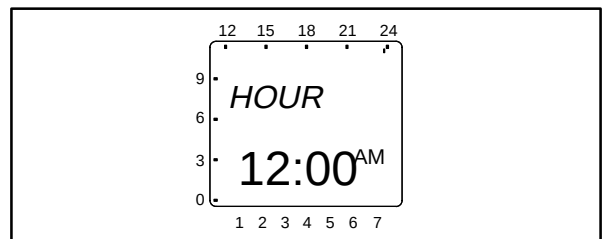
- Press the **+** button until the correct year is displayed and then press the **ok** button. The month is displayed next.



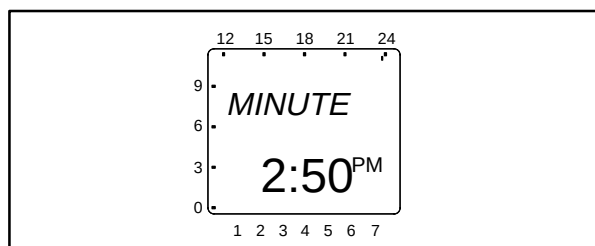
- Press the **+** or **-** button until the correct month is displayed and then press the **ok** button. The screen then shows the day value flashing.



- Press the **+** or **-** button until the correct day is displayed. Press the **ok** button. The screen then shows the hour value flashing.



- Press the **+** or **-** button until the correct hour is displayed. Press the **ok** button. The screen then shows the minute value flashing.



8. Press the **+** or **-** button until the correct minute

is displayed. Press the **ok** button. The screen then displays the correct date and time.

