

Supplement 962-1027

Date: 4-2013

Insert with-

Title: OT III Transfer Switch Manuals

Numbers: 962-0113, 962-0116, 962-0118
962-0125, 962-0600, 962-0602
962-0604, 962-0611, 962-0512
962-0513

Title: BT Transfer Switch Manuals

Numbers: 962-0121, 962-0607, 962-0514

PURPOSE

A new exerciser/change-over clock is available that requires new programming instructions. If the exerciser/change-over clock in the transfer switch matches the one shown in Figure 1 of this supplement, follow the programming instructions provided in this supplement.

This clock is referred to as an exerciser clock in manuals that cover utility-to-genset applications and it is called a change-over clock in genset-to-genset applications. The clock is the same for both applications. Refer to the manuals provided with the transfer switch for important safety precautions and for general information on *exercising* or *changeover*.

Keep this copy with the transfer switch manuals for future reference.

NEW EXERCISER/CHANGE-OVER CLOCK

The clock is used as an exerciser clock in **utility-to-genset applications**. The clock is set to start and run the generator set at programmable intervals and for selected durations.

In **genset-to-genset applications**, the clock is used as a change-over clock to initiate generator set changeover at programmable intervals. When programming for a changeover, the program is set only long enough to allow the genset to start. (As an example, if the clock is programmed to come ON once each week for five minutes, a changeover will occur between the generator sets at that time.)

The clock is a 7-day, 24-hour clock that can store and execute up to four start/stop programs per day (one minute minimum duration). The clock also has a test feature that can be used to initiate a genset start and run cycle.

Programming the exerciser/change-over clock requires setting the time of day and entering the start and stop times as described in the following sections.

The clock has backup power for a minimum of six hours. After loss of backup power, the day and time will have to be reset. Exerciser/change-over programs will not be lost during a power outage (programs are stored in EEPROM).

To Reset The Clock:

Resetting the clock erases all existing day, time and program settings.

Depress and hold the (-) (+) (Menu) & (OK) buttons simultaneously. When all aspects of the LCD display appear, release the depressed buttons. The word RESET will appear on the screen and then the display will return to its default date of (1/1/2004) and time of (0:00).

To Set The Day And Time:

1. With the clock powered, press (-) (+) (Menu) & (OK) buttons to reset the time. The time display area will show (0:00).

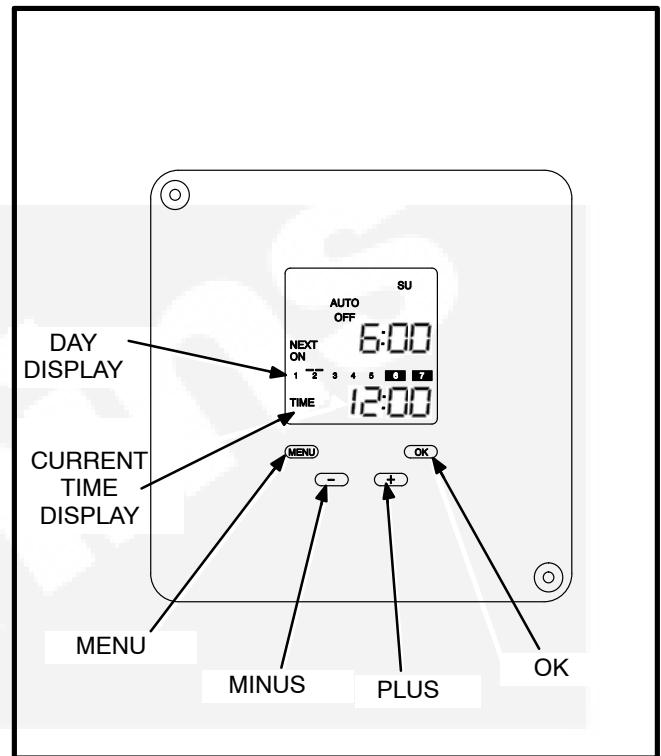


FIGURE 1. EXERCISER/CHANGEOVER CLOCK

2. Press the (MENU) button once, the LDC display will show SET, PROG, and MODE for options. If the word SET is flashing, press the (OK) button.
3. The LDC display will show SET with TIME/DATE or SU WI for options. If TIME/DATE is flashing, press the (OK) button.
4. Press the (-) and (+) buttons to set the hour of day. The clock uses 24-hour (military) time. Once the correct hour is displayed, press the (OK) button.
5. Press the (-) and (+) buttons to set the minutes of the hour. Holding down the (-) and (+) buttons will increment or decrement the display by 1 minute increments. Once the correct minutes are displayed, press the (OK) button.
6. Press the (-) and (+) buttons to set the correct day of the month. Once the correct day of month is displayed, press the (OK) button.
7. Press the (-) and (+) buttons to set the correct month of the year. Once the correct month of year is displayed, press the (OK) button.
8. Press the (-) and (+) buttons to set the correct year. Once the correct year is displayed, press the (OK) button.

To Set For Daylight Savings Time:

1. Press the (MENU) button once, the LCD display will show SET, PROG, and MODE for options. If the word SET is flashing, press the (OK) button.
2. The LCD display will show SET with TIME/DATE or SU WI for options. If TIME/DATE is flashing, press the (+) button once to make the SU WI flash.
3. Once the SU WI is flashing, press the (OK) button.
4. The LCD display will show EU, press the (-) or (+) buttons to choose from EU (European daylight savings time), US (United States daylight savings time), no SU:WI (no daylight savings time) or SPECIAL (customized daylight savings time setup).
 - A. For European daylight savings time:
 - 1) Press the (-) or (+) buttons until EU is displayed.
 - 2) Once EU is displayed, press the (OK) button.
 - B. For US daylight savings time:
 - 1) Press the (-) or (+) buttons until US is displayed.
 - 2) Once US is displayed, press the (OK) button
 - C. For no daylight savings time:
 - 1) Press the (-) or (+) buttons until no SU:WI is displayed.
 - 2) Once no SU:WI is displayed, press the (OK) button.
 - D. For customized daylight savings time:
 - 1) Press the (-) or (+) buttons until SPECIAL is displayed.
 - 2) Once SPECIAL is displayed, press the (OK) button.
 - 3) Press the (-) and (+) buttons to set the day of the month the summer daylight savings observance begins, then press the (OK) button.
 - 4) Press the (-) and (+) buttons to set the month the summer daylight savings observance begins, then press the (OK) button.
 - 5) Press the (-) and (+) buttons to set the year the summer daylight savings observance begins, then press the (OK) button.

- 6) Press the (-) and (+) buttons to set the day of the month the winter daylight savings observance begins, then press the (OK) button.
- 7) Press the (-) and (+) buttons to set the month the winter daylight savings observance begins, then press the (OK) button.
- 8) Press the (-) and (+) buttons to set the year the winter daylight savings observance begins, then press the (OK) button.

To Set The Exerciser Start and Stop Time:

1. Press the (MENU) button once, the LCD display will show SET, PROG, and MODE for options. If the word PROG is flashing, press the (OK) button.
2. The LCD display will show PRO with NEW MODIFY and TEST for options. If PROG is flashing, press the (+) button once to make NEW flash.
3. Once the NEW is flashing, press the (OK) button.
4. The LCD will then display the amount of currently available programs that can be created.
 - A. The LCD will show FREE XX PR (which means you have space for XX programs to be created).
5. Once the LCD displays FREE XX PR, press the (OK) button.
6. Press the (-) or (+) buttons to choose between the program options.
 - A. Daily Exercising
 - 1) The LCD will display DAY (with 1-7) flashing.
 - 2) This will perform the same test every day (Monday-Sunday).
 - B. Weekday Exercising
 - 1) The LCD will display DAY (with 1-5) flashing.
 - 2) This will perform the same test every week day (Monday-Friday).
 - C. Weekend Exercising
 - 1) The LCD will display DAY (with 6-7) flashing.
 - 2) This will perform the same test every weekend day (Saturday-Sunday).
 - D. Customized Exercising
 - 1) The LCD will Display ANY DAY flashing.

- 2) This will perform a test on any day that is programmed.
7. Once the program option is highlighted on the LCD, press the (OK) button.
8. For Daily, weekday and weekend exercise programming, perform the following:
 - A. Press the (-) or (+) buttons to set the hour you want the exercise to turn on.
 - B. Once the correct hour is flashing, press the (OK) button.
 - C. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn on.
 - D. Once the correct minute is flashing, press the (OK) button.
 - E. Press the (-) or (+) buttons to set the hour you want the exercise to turn off.
 - F. Once the correct hour is flashing, press the (OK) button.
 - G. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn off.
 - H. Once the correct minute is flashing, press the (OK) button.
9. For customized exercising, perform the following:
 - A. Press the (-) or (+) buttons to set the hour you want the exercise to turn on.
 - B. Once the correct hour is flashing, press the (OK) button.
 - C. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn on.
 - D. Once the correct minute is flashing, press the (OK) button.
 - E. Press the (-) or (+) buttons to set the hour you want the exercise to turn off.
 - F. Once the correct hour is flashing, press the (OK) button.
 - G. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn off.
 - H. Once the correct minute is flashing, press the (OK) button.
 - I. Press the (-) or (+) buttons to move the flashing cursor and set the day of the week you want the exercise.
 - J. Once the flashing cursor is above the day you want selected for exercise, press the (OK) button.
 - K. Continue steps I – J until all of the days are selected you want to run the exercise.
 - L. Press the (-) or (+) buttons until the flashing cursor is below the number 1 (designating Monday).
 - M. Once the flashing cursor is below the day you want to select to end the exercise cycle, press the (OK) button.
 - N. Continue step M until all of the days are selected to end the exercise cycles in the program, press the (OK) button.
 - O. The LCD will toggle the display between showing the program and saying prog OK:
 - 1) If the program is what is desired, press the (OK) button to save the program.
 - 2) If the program is not what is desired, press the (MENU) button to reprogram the exercise program.



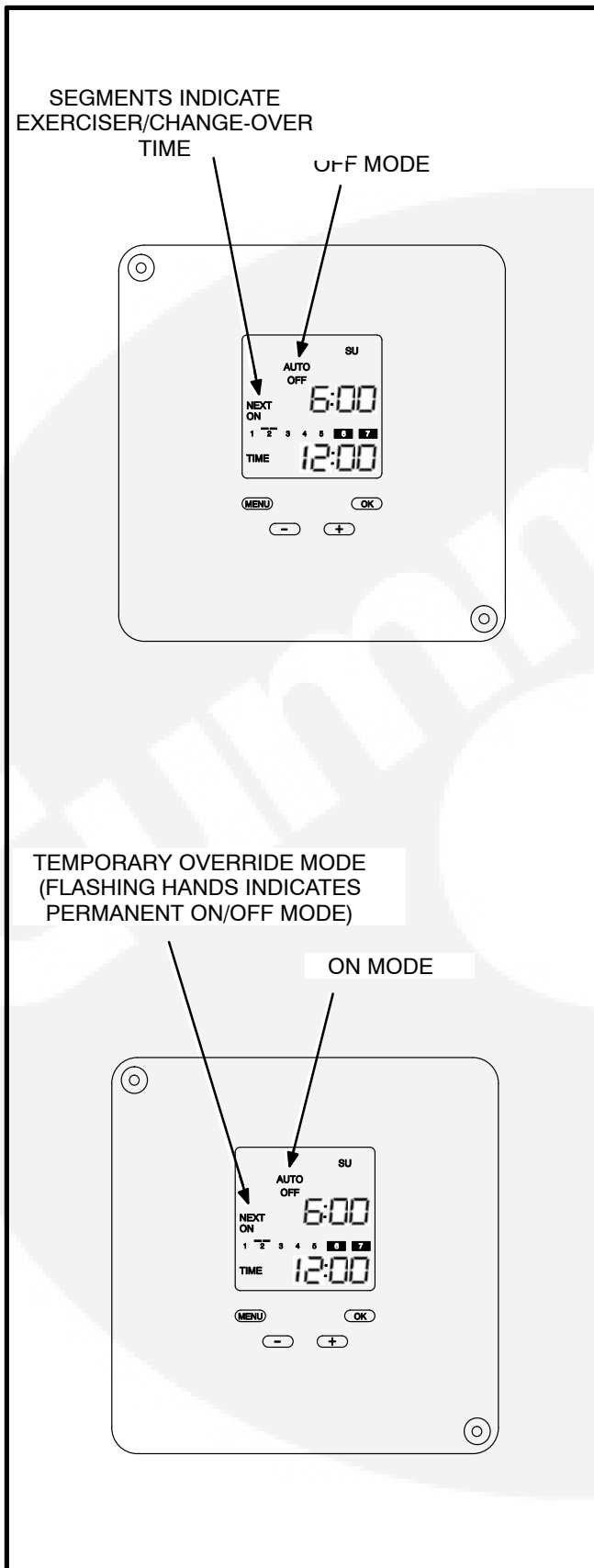


FIGURE 2. CLOCK ON/OFF MODE

To Set The Change-Over Time:

1. Press the (MENU) button once, the LCD display will show SET, PROG, and MODE for options. If the word PROG is flashing, press the (OK) button.
2. The LCD display will show PRO with NEW MODIFY and TEST for options. If PROG is flashing, press the (+) button once to make NEW flash.
3. Once the NEW is flashing, press the (OK) button.
4. The LCD will then display the amount of currently available programs that can be created.
 - A. The LCD will show FREE XX PR (which means you have space for XX programs to be created).
5. Once the LCD displays FREE XX PR, press the (OK) button.
6. Press the (-) or (+) buttons to choose between the program options.
 - A. Daily Exercising
 - 1) The LCD will display DAY (with 1-7) flashing.
 - 2) This will perform the same test every day (Monday - Sunday).
 - B. Weekday Exercising
 - 1) The LCD will display DAY (with 1-5) flashing.
 - 2) This will perform the same test every week day (Monday-Friday).
 - C. Weekend Exercising
 - 1) The LCD will display DAY (with 6-7) flashing.
 - 2) This will perform the same test every weekend day (Saturday-Sunday).
 - D. Customized Exercising
 - 1) The LCD will Display ANY DAY flashing.
 - 2) This will perform a test on any day that is programmed.
7. Once the program option is highlighted on the LCD, press the (OK) button.
8. For Daily, weekday and weekend exercise programming, perform the following:
 - A. Press the (-) or (+) buttons to set the hour you want the exercise to turn on.
 - B. Once the correct hour is flashing, press the (OK) button.
 - C. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn on.

- D. Once the correct minute is flashing, press the (OK) button
 - E. Press the (-) or (+) buttons to set the hour you want the exercise to turn off.
 - F. Once the correct hour is flashing, press the (OK) button.
 - G. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn off.
 - H. Once the correct minute is flashing, press the (OK) button.
9. For customized exercising, perform the following:
- A. Press the (-) or (+) buttons to set the hour you want the exercise to turn on.
 - B. Once the correct hour is flashing, press the (OK) button.
 - C. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn on.
 - D. Once the correct minute is flashing, press the (OK) button.
 - E. Press the (-) or (+) buttons to set the hour you want the exercise to turn off.
 - F. Once the correct hour is flashing, press the (OK) button.
 - G. Press the (-) or (+) buttons to set the minute of the hour that you want the exercise to turn off.
 - H. Once the correct minute is flashing, press the (OK) button.
 - I. Press the (-) or (+) buttons to move the flashing cursor and set the day of the week you want the exercise.
 - J. Once the flashing cursor is above the day you want selected for exercise, press the (OK) button.
 - K. Continue steps I – J until all of the days are selected you want to run the exercise
 - L. Press the (-) or (+) buttons until the flashing cursor is below the number 1 (designating Monday).
 - M. Once the flashing cursor is below the day you want to select to end the exercise cycle, press the (OK) button.
 - N. Continue step M until all of the days are selected to end the exercise cycles in the program, press the (OK) button.
 - O. The LCD will toggle the display between showing the program and saying prog Ok:
 - 1) If the program is what is desired, press the (OK) button to save the program
 - 2) If the program is not what is desired, press the (MENU) button to reprogram the exercise program.

To Check and Modify Programs:

1. Press the (MENU) button once, the LCD display will show SET, PROG, and MODE for options. If the word PROG is flashing, press the (OK) button.
2. The LCD display will show PRO with NEW MODIFY and TEST for options. If PROG is flashing, press the (+) button once to make MODIFY flash.
3. Once the MODIFY is flashing, press the (OK) button.
4. The LCD will then flash the word MODIFY.
5. Press the (-) or (+) buttons until the word MODIFY is flashing on the LCD, press the (OK) button.
6. The screen will flash between the word MODIFY and the initial program.
7. Press the (-) or (+) buttons to choose the program to check and/or modify.
8. Once the program desired is displayed, press the (OK) button.
9. The program selected will now be displayed :
 - A. You will have to repeat the process of setting the exercise time or setting the changeover time as is explained previously in the instructions.
 - B. You will have to continually press the (OK) button until you are returned to the program menu.

To Erase (Clear) A Program:

1. Press the (MENU) button once, the LCD display will show SET, PROG, and MODE for options. If the word PROG is flashing, press the (OK) button.
2. The LCD display will show PRO with NEW MODIFY and TEST for options. If PROG is flashing, press the (+) button once to make MODIFY flash.
3. Once the MODIFY is flashing, press the (OK) button.
4. The LCD will then flash the word MODIFY

5. Press the (-) or (+) buttons until the word DEL ONE or DEL ALL is flashing on the LCD, press the (OK) button.

A. To delete one program:

- 1) Continuing from step 5 above, press the (-) or (+) buttons until the words DEL ONE are displayed.
- 2) Once the words DEL ONE are displayed, press the (OK) button.
- 3) Press the (-) or (+) buttons until the screen flashes between the desired program to delete and the word DELETE.
- 4) Once the desired program is displayed, press the (OK) button.
- 5) The LCD will go through a process of turning the program on and off times into a series of dashes. Once the process is complete, the desired program is deleted.

B. To delete all programs:

- 1) Continuing from step 5 above, press the (-) or (+) buttons until the words DEL ALL are displayed.
- 2) Once the words DEL ALL are displayed, press the (OK) button.
- 3) The LCD screen will return to the PROG menu, and all of the saved programs are deleted.

To Test a Program:

1. Press the (MENU) button once, the LCD display will show SET, PROG, and MODE for options.
2. Press the (-) or (+) button to make the word PROG flash.
3. Once the word PROG is flashing, press the (OK) button.
4. The LCD display will show PRO with NEW MODIFY and TEST for options. Press the (-) or (+) buttons to make the word TEST flash.
5. Once the word TEST is flashing, press the (OK) button.
6. Press the (-) or (+) button to make the word prog or SERIAL flash.
7. If the word prog is selected:
 - A. The screen will show the first program to test (all programs will be shown in order entered)

- B. Press the (OK) button continuously to get to the program you want to test.
- C. Once the program is tested, press the (OK) button.
- D. The LCD will display the word END, press the (OK) button to end testing.

8. If the word SERIAL is selected:

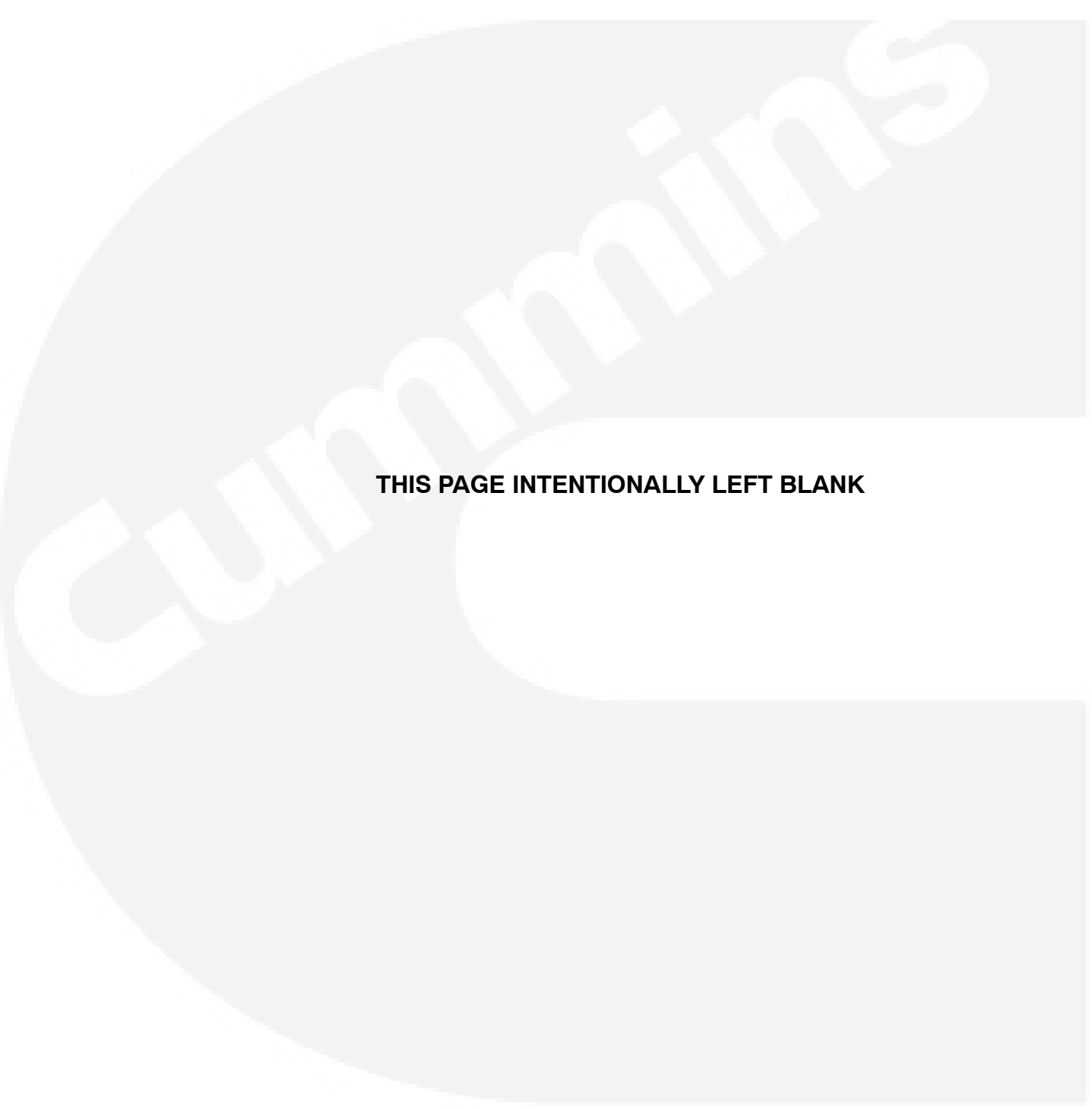
- A. The screen will show the first program to test (all programs will be shown in order entered)
- B. Press the (OK) button continuously to get to the program you want to test.
- C. Once the program is tested, press the (OK) button.
- D. The LCD will display the word END, press the (OK) button to end testing.

Permanent On/Off Mode:

Note: This feature is not used for any current applications. It is described here to help recognize and get out of this mode.

1. If the LCD main screen displays the word PERM, perform the following steps:
 - A. Press the (MENU) button once, the LCD display will show SET, PROG, and MODE for options.
 - B. Press the (-) or (+) button to make the word MODE flash.
 - C. Once the word MODE is flashing, press the (OK) button.
 - D. Press the (-) or (+) button to make the AUTO flash.
 - E. If the word AUTO is flashing, press the (OK) button.

This will revert the clock from the permanent mode to the auto mode (which is the mode that we use).



THIS PAGE INTENTIONALLY LEFT BLANK

