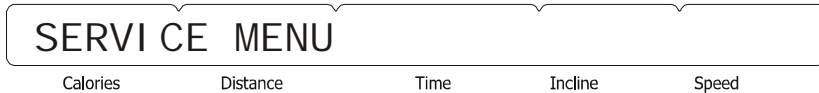# DIAGNOSTIC ENTRY

Diagnostics is entered by three methods:
1. Hold down the PAUSE Key until the SERVICE MENU appears, and press the STOP Button.
2. Hold down the PAUSE Key until the SERVICE MENU appears, and press CLEAR Key twice
3. Hold down the PAUSE Key when power is applied.

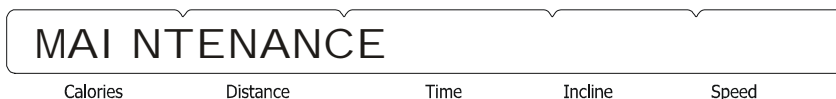The unit will take approx. 3 to 4 seconds to enter Diagnostics.

On entry to this state, the message:

SERVICE MENU				
Calories	Distance	Time	Incline	Speed

Followed by:

USE ARROW KEY TO SCROLL THROUGH LIST				
Calories	Distance	Time	Incline	Speed

Using any of the arrow keys will allow you to scroll through the four main categories.

SYSTEM TEST				
Calories	Distance	Time	Incline	Speed

INFORMATION				
Calories	Distance	Time	Incline	Speed

MAINTENANCE				
Calories	Distance	Time	Incline	Speed

CONFIGURATION				
Calories	Distance	Time	Incline	Speed

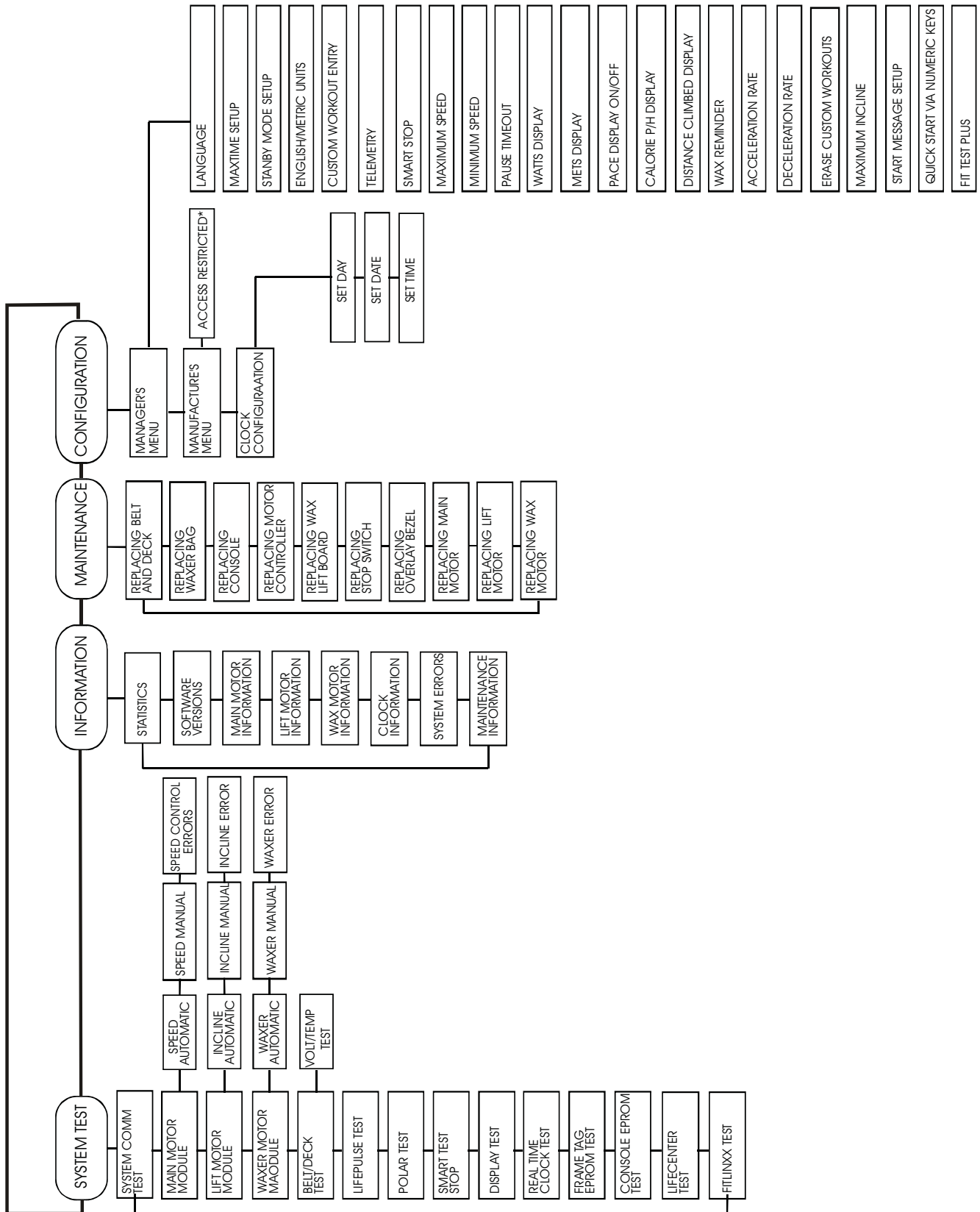# MAINTENANCE CONFIGURATION – QUICK ENTRY REFERENCE

Diagnostic selections can also be made by pressing a combination of program keys. The following is the list of diagnostic tests and their program key combination. All blank fields in the chart are considered "OFF" for that program key.
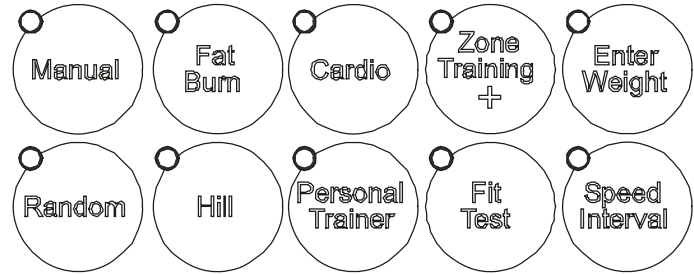
DIAGNOSTIC TESTS	MANUAL	FAT BURN	CARDIO	RANDOM	HILL	CUSTOM/ PERSONAL TRAINER	FIT TEST	ZONE TRAINING	SPEED INTERVAL	ENTER WEIGHT
SYSTEM TESTS										
BELT/DECK TEST						ON				
LIFEPULSE TEST		ON								
TELEMETRY TEST			ON							
SMART STOP TEST		ON			ON					
DISPLAY TEST	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
COMM TEST				ON			ON			
TAG EEPROM TEST				ON			ON			
CONSOLE EEPROM TEST		ON					ON			
LIFECENTER TEST		ON				ON				
C-SAFE TEST			ON			ON				
SPEED AUTO				ON						
SPEED MANUAL	ON			ON						
SPEED ERROR				ON		ON				
INCLINE AUTO					ON					
INCLINE MANUAL	ON				ON					
INCLINE ERROR					ON	ON				
WAXER AUTO							ON			
WAXER MANUAL	ON						ON			
WAXER ERROR						ON	ON			
INFORMATION										
STATISTICS		ON	ON							
SOFTWARE VERSION		ON		ON						
CLOCK INFO	ON					ON				
MAINTENANCE INFO	ON		ON							
MAIN MOTOR INFO			ON	ON						
INCLINE MOTOR INFO			ON		ON					
WAX MOTOR INFO			ON				ON			
SYSTEM ERROR INFO	ON	ON								
MAINTENANCE										
MAINTENANCE MENU	ON									

SYSTEM TEST
- SYSTEM COMM TEST
- MAIN MOTOR MODULE
  - SPEED AUTOMATIC
    - SPEED MANUAL
      - SPEED CONTROL ERRORS
- LIFT MOTOR MODULE
  - INCLINE AUTOMATIC
    - INCLINE MANUAL
      - INCLINE ERROR
- WAXER MOTOR MAODULE
  - WAXER AUTOMATIC
    - WAXER MANUAL
      - WAXER ERROR
  - VOLT/TEMP TEST
- BELT/DECK TEST
- LIFEPULSE TEST
- POLAR TEST
- SMART TEST STOP
- DISPLAY TEST
- REAL TIME CLOCK TEST
- FRAME TAG EPROM TEST
- CONSOLE EPROM TEST
- LIFECENTER TEST
- FITLINXX TEST

INFORMATION
- STATISTICS
- SOFTWARE VERSIONS
- MAIN MOTOR INFORMATION
- LIFT MOTOR INFORMATION
- WAX MOTOR INFORMATION
- CLOCK INFORMATION
- SYSTEM ERRORS
- MAINTENANCE INFORMATION

MAINTENANCE
- REPLACING BELT AND DECK
- REPLACING WAXER BAG
- REPLACING CONSOLE
- REPLACING MOTOR CONTROLLER
- REPLACING WAX LIFT BOARD
- REPLACING STOP SWITCH
- REPLACING OVERLAY BEZEL
- REPLACING MAIN MOTOR
- REPLACING LIFT MOTOR
- REPLACING WAX MOTOR

CONFIGURATION
- MANAGER'S MENU
  - LANGUAGE
  - MAXTIME SETUP
  - STANBY MODE SETUP
  - ENGLISH/METRIC UNITS
  - CUSTOM WORKOUT ENTRY
  - TELEMETRY
  - SMART STOP
  - MAXIMUM SPEED
  - MINIMUM SPEED
  - PAUSE TIMEOUT
  - WATTS DISPLAY
  - METS DISPLAY
  - PACE DISPLAY ON/OFF
  - CALORIE P/H DISPLAY
  - DISTANCE CLIMBED DISPLAY
  - WAX REMINDER
  - ACCELERATION RATE
  - DECELERATION RATE
  - ERASE CUSTOM WORKOUTS
  - MAXIMUM INCLINE
  - START MESSAGE SETUP
  - QUICK START VIA NUMERIC KEYS
  - FIT TEST PLUS
- MANUFACTURE'S MENU
  - ACCESS RESTRICTED*
- CLOCK CONFIGURAATION
  - SET DAY
  - SET DATE
  - SET TIME

8

DIAGNOSTICS: SYSTEM COMMUNICATION(COMM) TEST

Upon entry into this category, a SYSTEM COMMUNICATION (COMM) TEST will be performed automatically.

This test will attempt to communicate with all of the modules within the treadmill unit. If a module does not respond to the console processor an ERROR message will be displayed.

If all the modules communicate, the message is:

SYSTEM COMM OK				
Calories	Distance	Time	Indine	Speed

If the motor controller module does not communicate, the initial message will display:

MOTOR CONTROLLER COMM BAD				
Calories	Distance	Time	Indine	Speed

If the harness is disconnected the message is:

CHECK HARNESS BETWEEN LIFT AND CONTROLLER-P9/P3				
Calories	Distance	Time	Indine	Speed

CHECK POWER TO THE MOTOR CONTROLLER				
Calories	Distance	Time	Incline	Speed

If the motor controller has no power, the message is:

If the wax/lift board module does not communicate, the message is:

CHECK POWER TO WAX/LIFT BOARD				
Calories	Distance	Time	Incline	Speed

If both the motor controller module and the wax/lift board module do not communicate, the message is:

BOTH LIFT AND CONTROLLER COMM BAD				
Calories	Distance	Time	Indine	Speed

If the wax/lift and motor controller has no power, the message is:

CHECK POWER ON LIFT AND CONTROLLER				
Calories	Distance	Time	Indine	Speed

If the main harness from the console to the wax/lift board is disconnected, the message is:

CHECK HARNESS BETWEEN CONSOLE AND LIFT - P1/P1				
Calories	Distance	Time	Indine	Speed

If both the motor controller module and the wax/lift board module do communicate, but the console cannot perform a loop-back test, the message is:

SYSTEM CONFI GURED TWO WI RE

Calories	Distance	Time	Incline	Speed

If SYSTEM COMM OK is displayed it will advance to the **system test** category.

Press the 'CLEAR' key to return to the MAIN DIAGNOSTIC CATEGORIES.
Press the 'ENTER' key to advance to the SYSTEM TEST SUB-CATEGORIES.

Upon entry the, the message is:

```
┌─────────────────────────────────────────┐
│ SYSTEM  TEST  MENU                       │
└─────────────────────────────────────────┘
  Calories    Distance    Time    Incline    Speed
```

"USE ARROW KEYS TO SCROLL THROUGH THE LIST"

Using any of the arrow keys will allow you to scroll through the thirteen system tests.

SYSTEM TEST	SMART STOP TEST
MAIN MOTOR TEST	DISPLAY TEST
LIFT MOTOR TEST	REAL TIME CLOCK TEST
WAXER MOTOR TEST	FRAME TAG EEPROM TEST
BELT/DECK TEST	CONSOLE EEPROM TEST
LIFEPULSE TEST	LIFECENTER TEST
TELEMETRY TEST	C-SAFE TEST

Press the 'ENTER' key to access the sub-category.
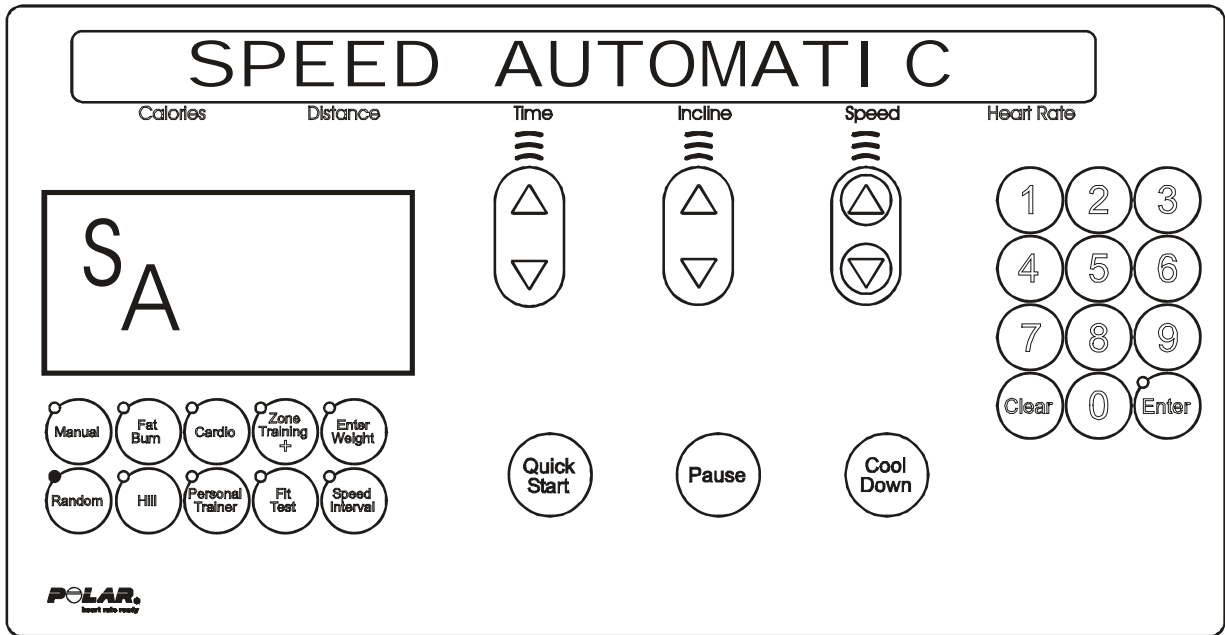
Upon entry into this test the letters SA (speed automatic) will be in the profile window. This test allows the user to test the main drive motor and controller controlling the target speed. The user can select a target speed by using the speed arrow keys. The actual speed as calculated by the speed feedback sensor is shown in the actual portion of the message center.

The incline system can be activated in this test as well. However, the display will only show the target incline for two seconds while the incline keys are being pressed. It will then return to showing the speed information.

Press the 'CLEAR' key to exit the Speed Automatic test and return to the System Test Menu.
Press the 'ENTER' key to advance to the Speed Manual test.
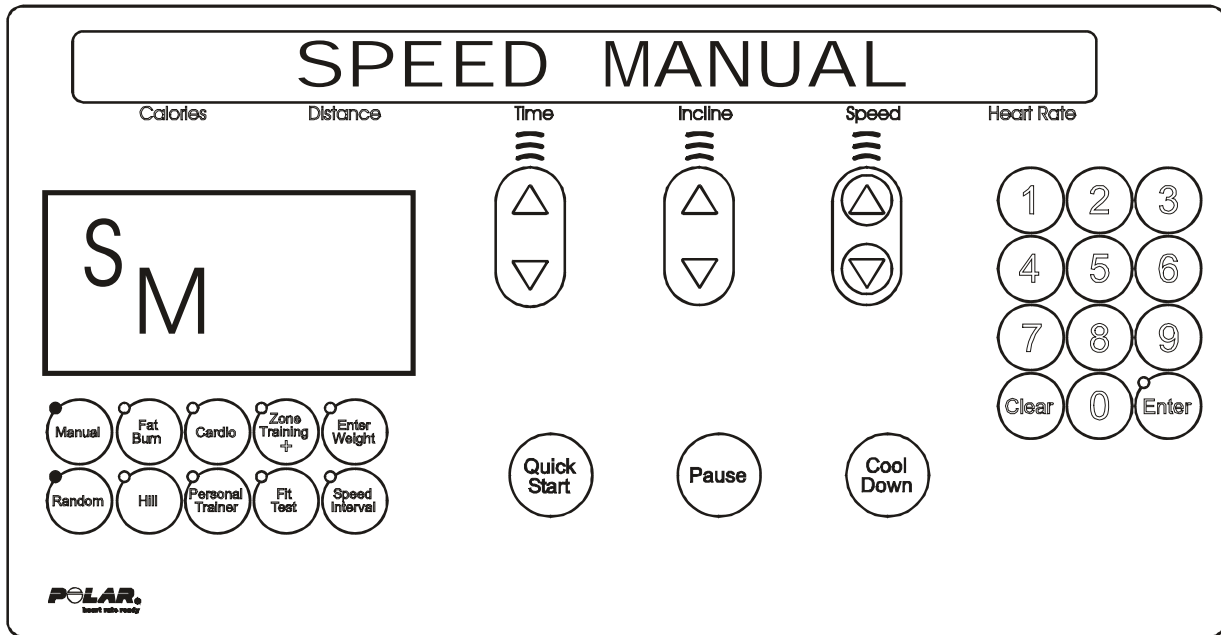
Upon entry into this test the letters SM (Speed Manual) will be in the profile window. This test allows the user to test the main drive motor and controller controlling the motor rpm. The user can select a target motor rpm by using the speed arrow keys. The actual motor rpm as calculated by the speed feedback sensor is shown in the actual portion of the message center.

The incline system can be activated in this test as well. However, the display will only show the target incline for two seconds while the incline keys are being pressed. It will then return to showing the speed information.

Press the 'CLEAR' key to exit the Speed Manual test and return to the Speed Automatic test.
Press the 'ENTER' key to advance to the Controller Errors test.
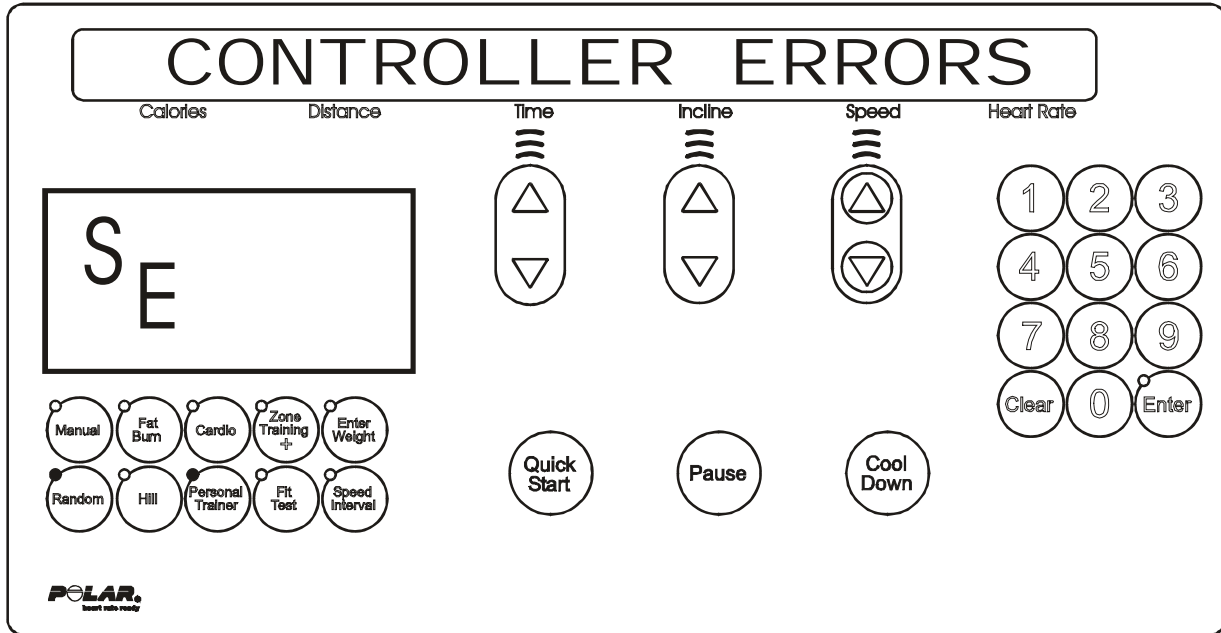
Upon entry into this test the letters SE (speed errors) will be in the profile window. This test allows seeing the current motor controller error conditions that are being displayed on the motor controller display. The following is a list of the current motor error conditions. If an error is displayed, refer to the troubleshooting section for corrective action.

CURRENT MOTOR ERROR CONDITIONS

POWER UP RESET ERROR	DYNAMIC CURRENT TRIP
STATIC CURRENT TRIP	FAULT LINE 1 ERROR
MAX TEMPERATURE TRIP	SCI ERROR
MAXIMUM VOLTAGE TRIP	SPEED SENSOR ERROR

Press the 'CLEAR' key to exit the Speed Controller Errors test and return to the Speed Manual test.
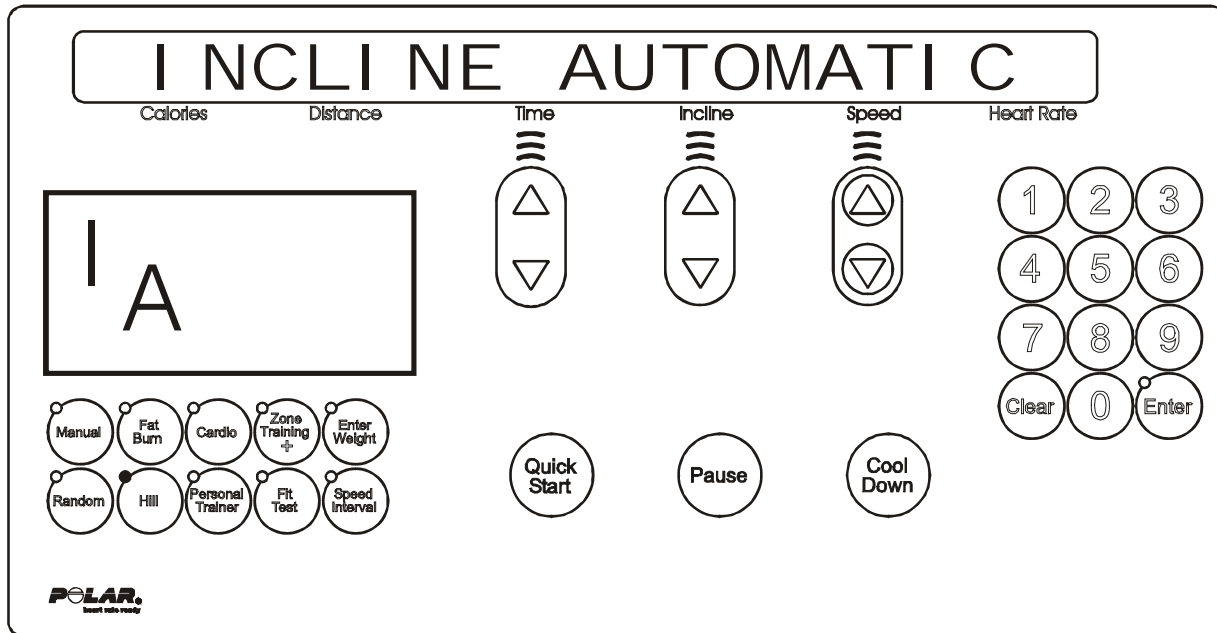
Upon entry into this test the letters IA (incline automatic) will appear in the profile window. This test allows the user to test the lift motor and switches controlling the target incline. The user can select a target incline by using the incline arrow keys. The actual incline as calculated by the time count, is shown in the incline portion of the message center.

For non-decline units: The state of the level switch will be displayed in the profile window. A zero "0" displayed in the profile window shows the level switch in the closed position. As the unit is inclined the zero "0" displayed should disappear to indicate that the level switch is functioning.

For decline units: The state of the level switch will be displayed in the profile window. A zero "0" displayed in the profile window shows the level switch in the closed position. As the unit is inclined the zero "0" displayed should disappear to indicate that the level switch is functioning.

The speed system can be activated in this test as well. However, the display will only show the target speed for two seconds while the speed keys are being pressed. It will then return to showing the incline information.

Press the 'CLEAR' key to exit the Incline Automatic test and return to the System Test Menu.
Press the 'ENTER' key to advance to the Incline Manual test.
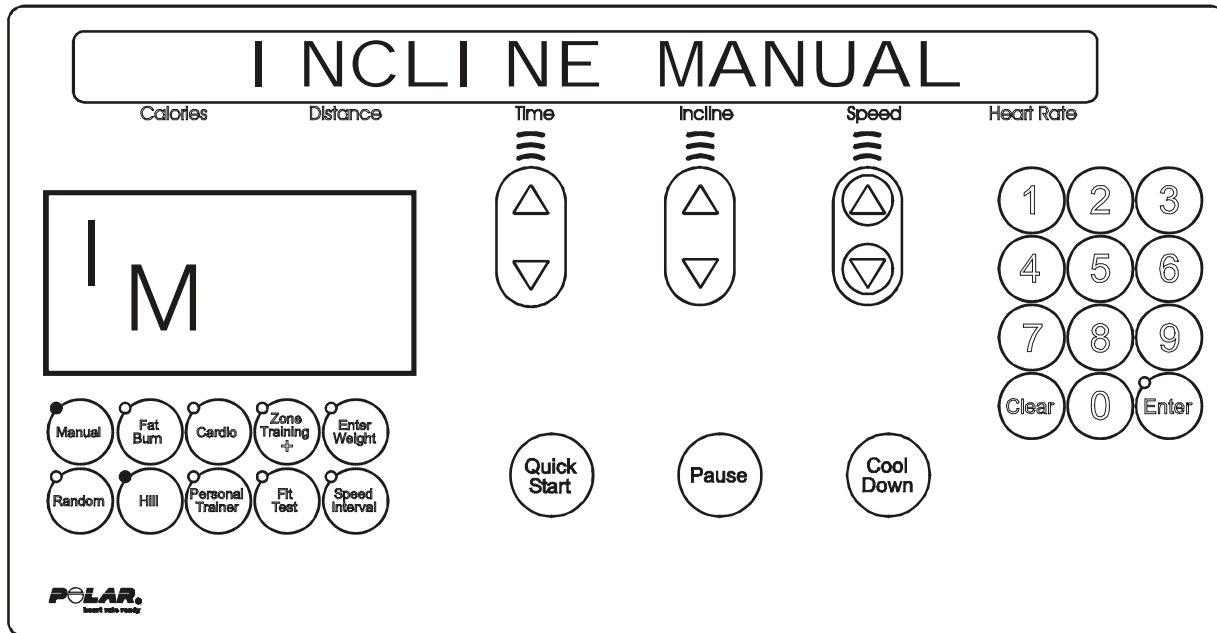
Upon entry into this test the letters IM (incline manual) will be in the profile window. This test allows the user to bypass the electromechanical switches that normally control the target incline. The user moves incline by pressing the incline arrow keys. The actual incline is calculated by the time count is shown in the actual portion of the message center. The state of the level and negative incline switches will be displayed in the profile window.

For non-decline units: The state of the level switch will be displayed in the profile window. A zero "0" displayed in the profile window shows the level switch in the closed position. As the unit is inclined the zero "0" displayed should disappear to indicate that the level switch is functioning.

For decline units: The state of the level and negative incline switches will be displayed in the profile window. A zero "0" displayed in the profile window shows the level switch in the closed position. As the unit is declined the zero "0" displayed should disappear and a "–4" should appear in the profile window. This verifies that the negative switch is functioning (the "–4" will only appear in incline manual mode).

The speed system can be activated in this test as well. However, the display will only show the target speed for two seconds while the speed keys are being pressed. It will then return to show the incline information.

Press the 'CLEAR' key to exit the Incline Manual test and return to the Incline Automatic test.
Press the 'ENTER' key to advance to the Incline Errors test.
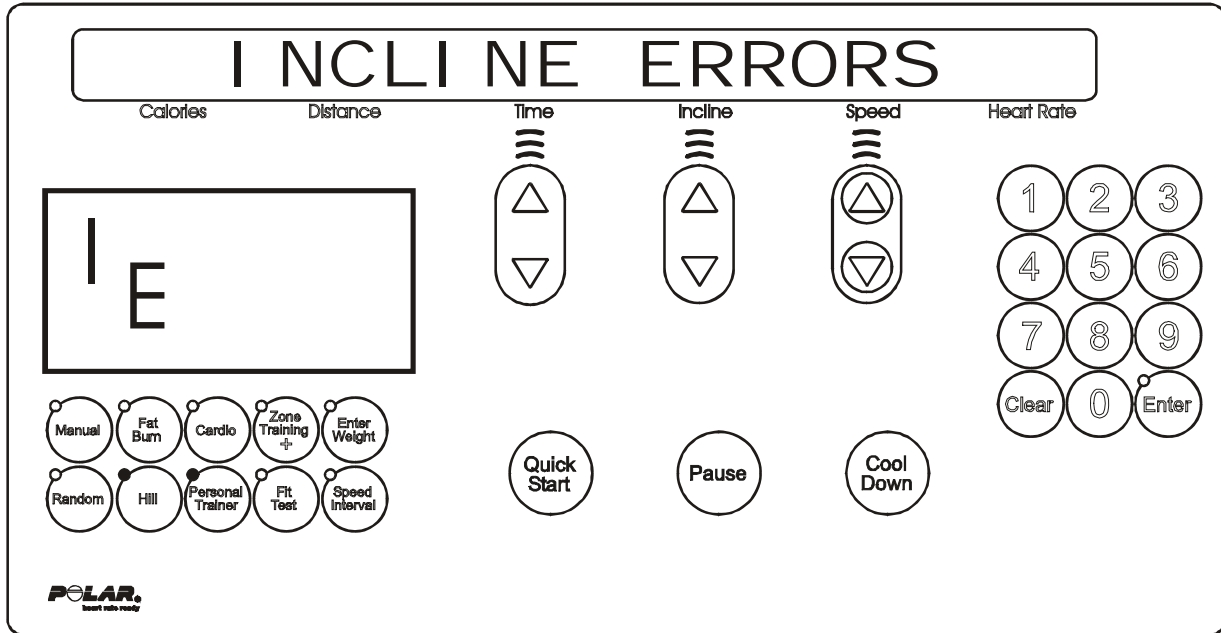
Upon entry into this test the letters IE (incline errors) will be in the profile window. This test allows seeing the current lift motor error conditions. The following is a list of the current lift motor error conditions. If an error is displayed, refer to the troubleshooting section for corrective action.
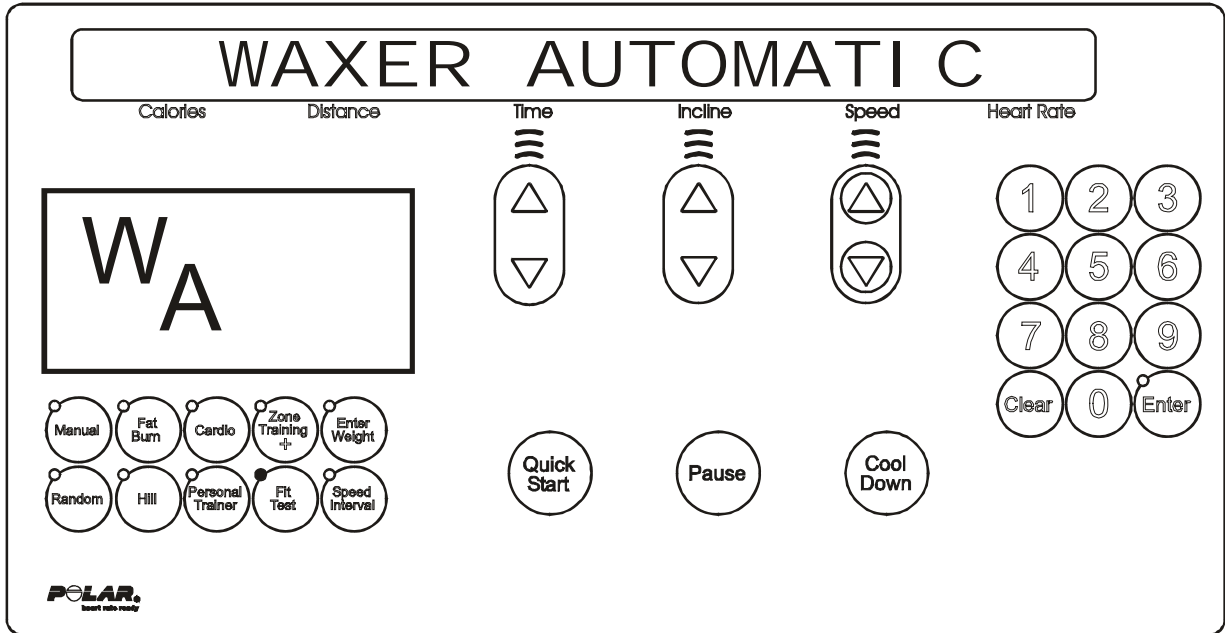
<u>**CURRENT LIFT MOTOR ERROR CONDITIONS**</u>

INCLINE TIMEOUT ERROR   NEGATIVE SWITCH ERROR
HOME SWITCH ERROR   NO AC POWER ERROR

Press the 'CLEAR' key to exit the Incline Errors test and return to the Incline Manual test.

Upon entry into this test the letters WA (waxer automatic) will be in the profile window. This test allows the user to see information concerning the wax motor. The wax information will scroll automatically every 3 seconds.

If an error is displayed, refer to the troubleshooting section for corrective action.

ERROR CONDITION	DISPLAYED INFORMATION
WAXER UNPLUGGED	WAXER FIRED – XXX
	WAXER - XX/100 FULL
	MANUAL WAX- XX TIMES
	NEXT WAX - XX HOURS
	INITIAL WAX- XX MINS
	WAX INTERVAL XX MINS
	MIN WAX SPEED- X.X

The speed system and incline systems can be activated in this test as well. However, the display will only show the target speed or incline for two seconds while the speed/incline keys are being pressed. It will then return to showing the waxer information.

Press the 'CLEAR' key to exit the Waxer Automatic test and return to the System Test Menu.
Press the 'ENTER' key to advance to the Waxer Manual test.
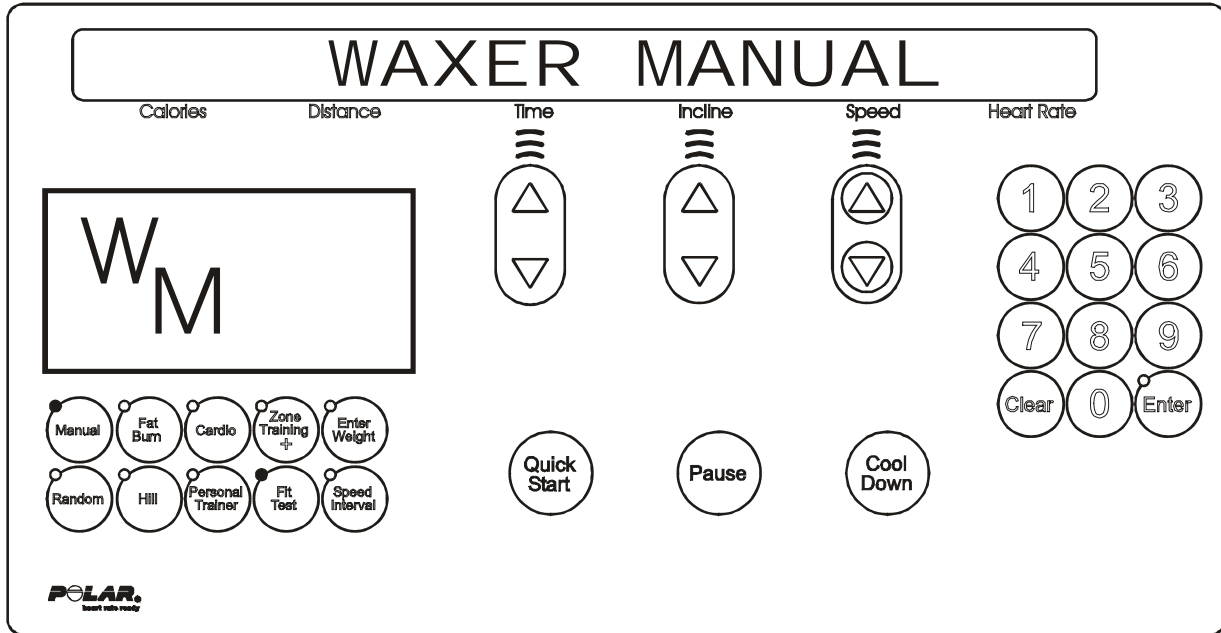
Upon entry into this test the letters WM (waxer manual) will be in the profile window. This test allows the user to manually fire the wax system. It allows the user to see information concerning the wax motor as well. The wax information will scroll automatically every 3 seconds.

If an error is displayed refer to the troubleshooting section for corrective action.

ERROR CONDITION	DISPLAYED INFORMATION	WAXER FIRE TEST
WAXER UNPLUGGED	WAXER FIRED – XXX WAXER - XX/100 FULL MANUAL WAX- XX TIMES NEXT WAX - XX HOURS INITIAL WAX- XX MINS WAX INTERVAL XX MINS MIN WAX SPEED- X.X	TO FIRE WAXER PRESS THE QUICK START KEY

The speed system and incline systems can be activated in this test as well. However, the display will only show the target speed or incline for two seconds while the speed/incline keys are being pressed. It will then return to showing the waxer information.

> Press the 'CLEAR' key to exit the Waxer Manual test and return to the Waxer Automatic test.
> Press the 'ENTER' key to advance to the Waxer Errors test.
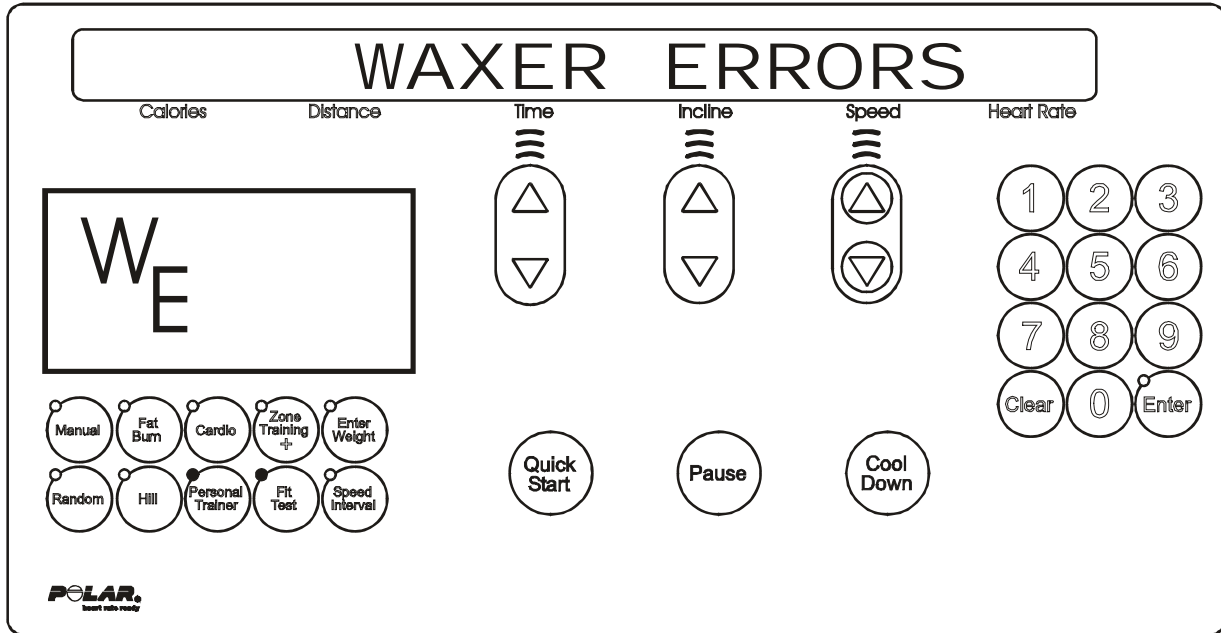
Upon entry into this test the letter WE (waxer errors) will be in the profile window. This test allows you to see the current wax motor error conditions.

The following is a list of the current waxer motor error conditions. If an error has occurred, refer to your troubleshooting section for corrective action.

WAXER MOTOR ERROR CONDITIONS

WAXER UNPLUGGED
WAXER NO AC POWER

Press the 'CLEAR' key to exit the Waxer Errors test and return to the Waxer Manual test.

This test allows the user to test the belt and deck condition. This test acts as a wattage meter. It will give the user the percentage of power, wattage, bus voltage, and temperature readings.

The following messages will scroll:

```
RELATIVE POWER METER
```
Calories   Distance   Time   Incline   Speed

```
RECOMENDED SPEED ABOVE 3.5 MPH
```
Calories   Distance   Time   Incline   Speed

The initial information displayed will be:

```
PERCENT XXX WATT XXX
```
Calories   Distance   Time   Incline   Speed
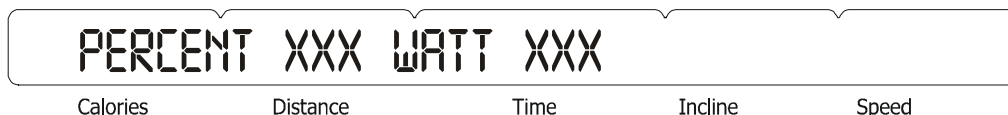
Where **XXX** will indicate real values.
PERCENT is the percentage of available power. It will range from 0 to 100%.
WATT is the wattage measured by the motor controller to move the belt ranging from 340 to 1200 watts.

By pressing the '**COOL-DOWN**' key, the display will toggle to the information displayed below.

```
VOLTAGE XXX TEMP XX 'C
```
Calories   Distance   Time   Incline   Speed

Where **XXX** will indicate real values.
VOLTAGE is the bus voltage of the motor controller. It is not the input line voltage.
TEMP is the temperature measure of the motor controller heat sink in Celsius.

The display will lock on the current information if the 'PAUSE' key is pressed.

The speed system and incline systems can be activated in this test. However, the display will only show the target speed or incline for two seconds while the speed/incline keys are being pressed. It will then return to showing the belt/deck information.

To test if the belt and deck need replacement: Using the 'SPEED' Up Arrow Key, walk on the unit at 3.5 mph for a minimum of 1 minute. Then run on the unit at 7.0 mph for a minimum of 1 minute. If the voltage is higher than 1100 watts, replace the belt and either flip or replace the deck.

Press the 'CLEAR' key to exit the Belt/Deck test and return to the System Test Menu.
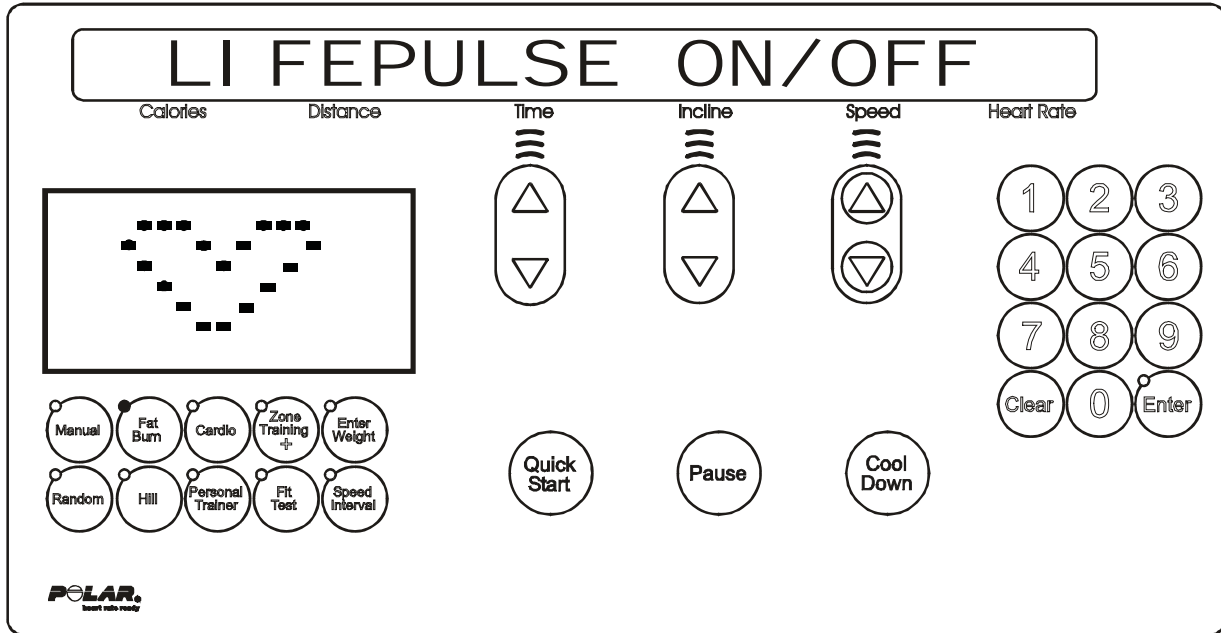
Upon initial entry to this test, a message concerning the configuration of the LifePulse™ system On/Off will occur. This test will allow the user to test the LifePulse™ heart rate system.

Following this message, the LifePulse™ system can be manually tested. A heart will be in the profile window. The system will show when the user has placed their hands on the LifePulse™ sensors. When the left sensor detects hands on condition, a 'L' will be placed in the profile window with the heart. When the right sensor detects hands on condition, a 'R' will be placed in the profile window with the heart.

A timer will start counting from the time when a both left and right hands on condition occurs to when the LifePulse™ system can give the user their heart rate. This timer will stop when the heart rate is given.

The gain value of the heart rate signal is shown. The confidence level of the heart rate value is displayed. The value ranges from 0 to 9. A value of 9 is considered to be high confidence. A value of 0 is considered to be low confidence.

The speed system and incline systems can be activated in this test. However, the display will only show the target speed or incline for two seconds while the speed/incline keys are being pressed. It will then return to showing the LifePulse™ information.

Press the 'CLEAR' key to exit the LifePulse™ test and return to the System Test Menu.
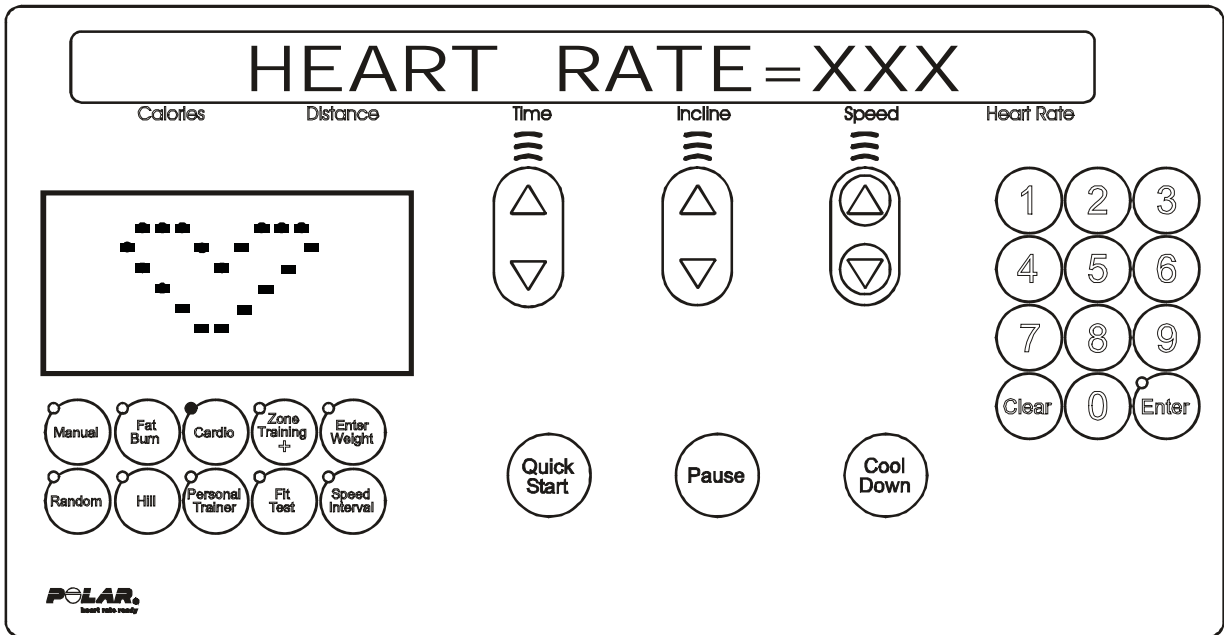
Upon initial entry to this test, a message concerning the telemetry system on/off will occur. This test will allow the user to test the telemetry heart rate system. If the telemetry heart rate system is OFF, no heart rate value will be given.

If the system is enabled, a telemetry heart rate signal can be provided and a heart rate value will be shown. The signal will also generate the 'ENTER' led to flash at the heart rate pulse frequency.

Press the 'CLEAR' key to exit the Telemetry Heart Rate test and return to the System Test Menu.
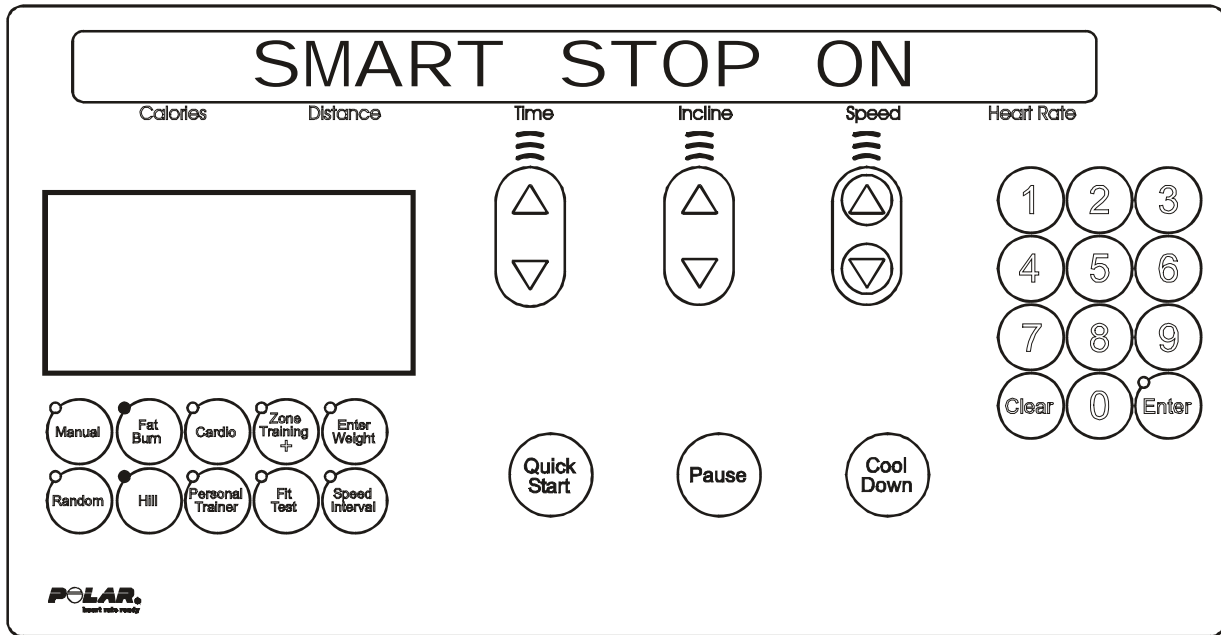
Upon entry into the test, if the smart stop PCB is not plugged in, a message will be displayed "Smart Stop Unplugged". This test will allow the user to test the Smart Stop System. If the smart stop system detects a user it will scroll the profile window from empty to full depending on the percentage of detection that is occurring. Other smart stop information will scroll automatically every 3 seconds.

The following is a list of the current information that can be seen. If an error has occurred, refer to the troubleshooting section for corrective action.

ERROR CONDITION	DISPLAYED INFORMATION
SMART STOP UNPLUGGED	SMART STOP ON
	SMART STOP OFF
	USER DETECTED
	USER NOT DETECTED
	SMART STOP ADJUST-XX

The smart stop system can be turned ON/OFF in this test. When the message "SMART STOP ON" is placed on the message center, an arrow key will toggle it to "SMART STOP OFF".

The display can be put into a locked mode by pressing the 'PAUSE' key. This will prohibit the scrolling of the smart stop information.

Pressing the 'CLEAR' key to exit the smart stop test and return to the System Test Menu.

DIAGNOSTICS: SYSTEM TEST – DIPLAY TEST MODE

This test will light each individual segment per character until complete. It will then light each character separately until all characters have been lit. Each individual led will be tested also. If the 'PAUSE' key is pressed, the sequence will halt and remain there until the 'PAUSE' is pressed again.

Pressing the 'PAUSE' key can LOCK the display. This will prohibit the scrolling of the LED's.
Pressing the 'CLEAR' key to exit the Walking Led test and return to the Keypad test.
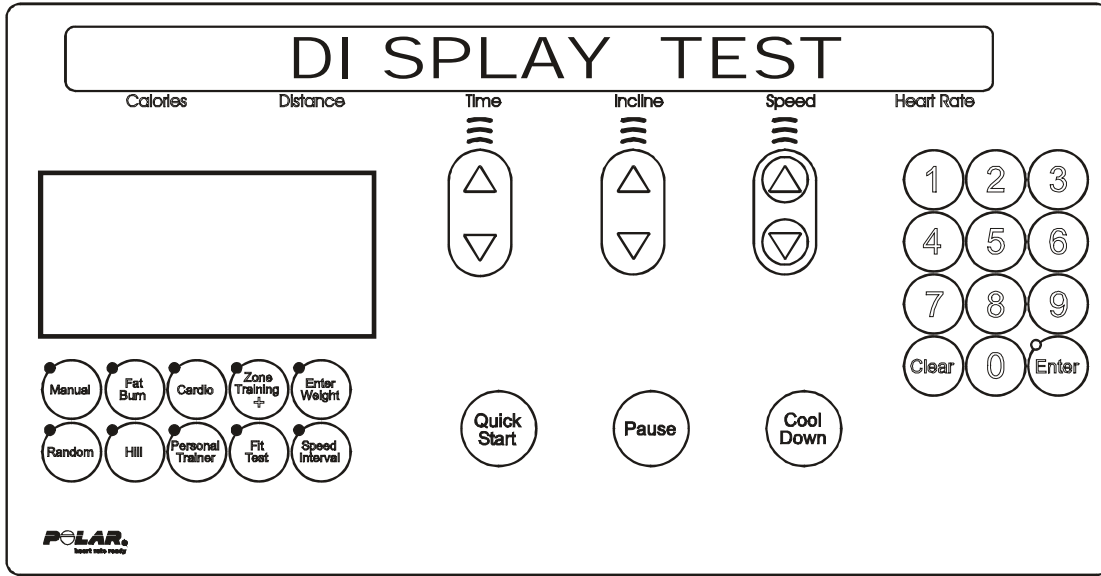
Upon entry to this test, all lights will be turned ON. This test will allow the user to test the display console.

Pressing keys will result in a beep sound and, for all but the 'ENTER' and 'CLEAR' keys, a character will be repeated across the message center display.

KEYS	DISPLAYED CHARACTER	KEYS	DISPLAYED CHARACTER
0	'0'	FIT TEST	'L'
1	'1'	TIME UP	'N'
2	'2'	INCLINE UP	'P'
3	'3'	SPEED UP	'Q'
4	'4'	TIME DOWN	'R'
5	'5'	INCLINE DOWN	'T'
6	'6'	SPEED DOWN	'U'
7	'7'	QUICK	'V'
8	'8'	PAUSE	'W'
9	'9'	COOL DOWN	'X'
MANUAL	'C'	STOP	'Y'
FAT BURN	'D'	DOWN	'Z'
CARDIO	'E'	UP	'S'
RANDOM	'H'	ZONE TRAINING +	'F'
HILL	'J'	SPEED INTERVAL	'M'
PERSONAL TRAINER	'K'	ENTER WEIGHT	'G'

Pulling the Emergency Stop switch will result in the message:
'REPLACE EMERGENCY STOP SWITCH'.

Pressing the 'CLEAR' key to exit the Display test and return to the System Test Menu.
Pressing the 'ENTER' key will advance to Walking Led test.
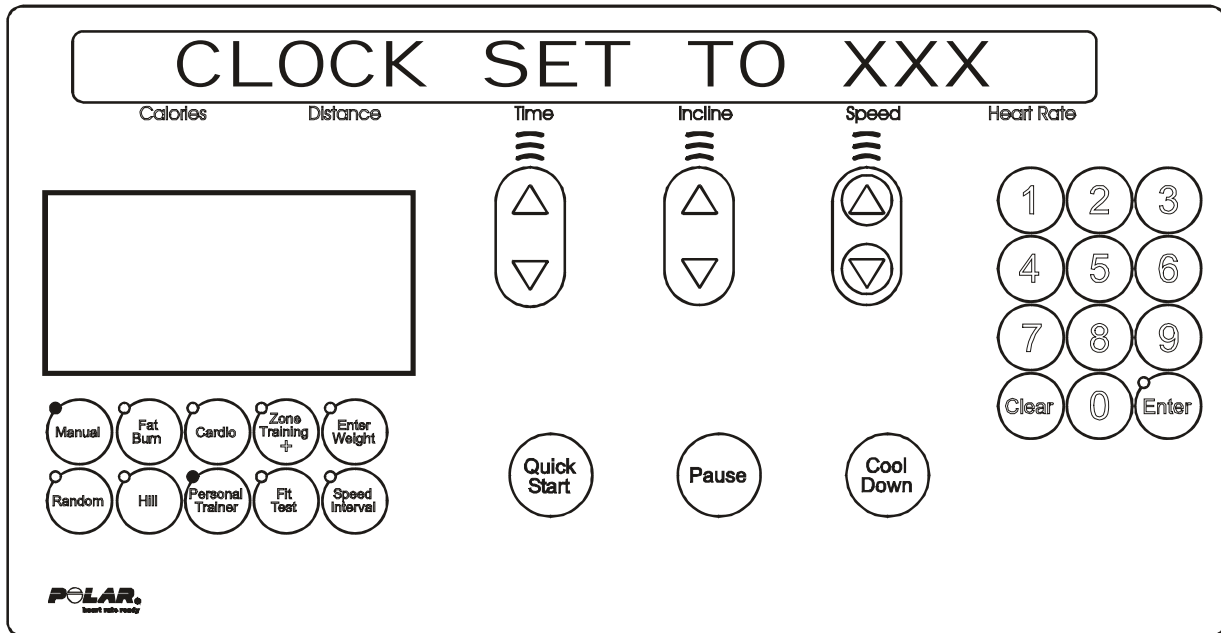
This test allows the user to see the current time set on the frame tag real time clock. If the communication is bad or the frame tag is unplugged the following messages will appear. Refer to the troubleshooting section for corrective action.

FRAME CLOCK COMM BAD
FRAME TAG UNPLUGGED

If there are no errors, a message concerning whether the clock is set the local time or default "Greenwich Mean Time". Either message may appear:
"CLOCK SET TO LOCAL" or
"CLOCK SET TO GMT"

The message will be followed by the current real time clock information.
Press the 'CLEAR' key to exit the Frame Tag Real Time Clock test and return to the System Test Menu.
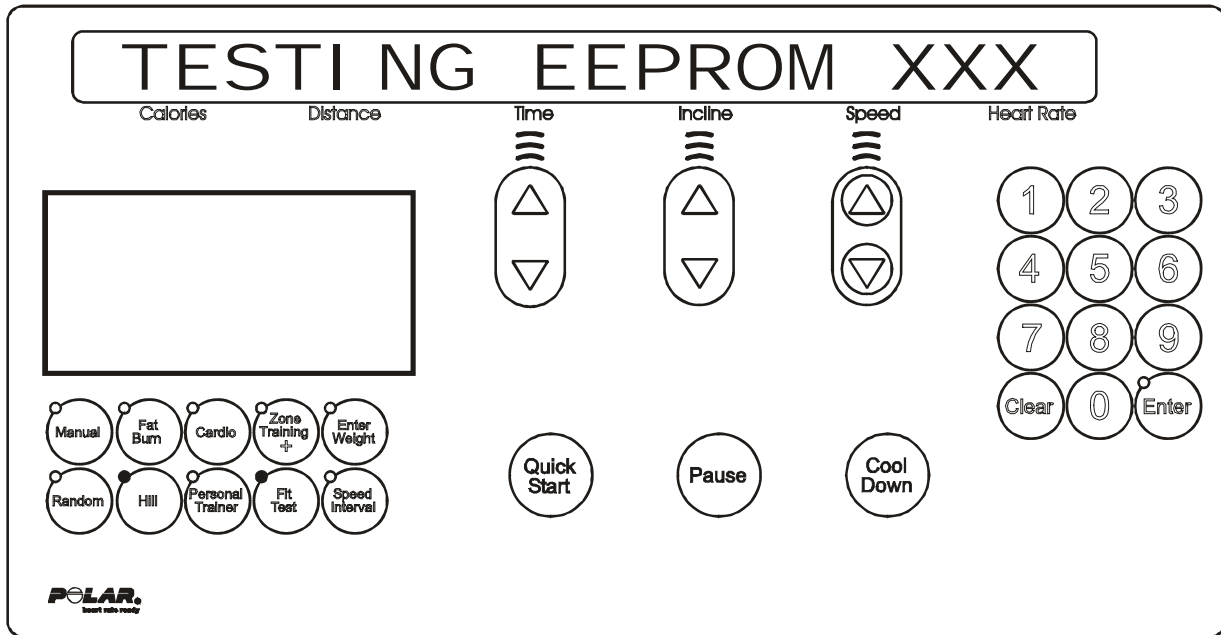
This test allows the user to test the frame tag EEPROM. This test will read/write/replace all used locations in the frame tag EEPROM. If there is an error, the bad location will be displayed. The following is a list of current information that can be seen. If an error has occurred, refer to the troubleshooting section for corrective action.

ERROR CONDITION	DISPLAYED INFORMATION
FRAME EEPROM COMM BAD	TESTING FRAME EEPROM
FRAME TAG UNPLUGGED	EEPROM TESTED GOOD
	EEPROM BAD AT XX

Press the 'CLEAR' key to exit the Frame Tag EEPROM test and return to the System Test Menu.
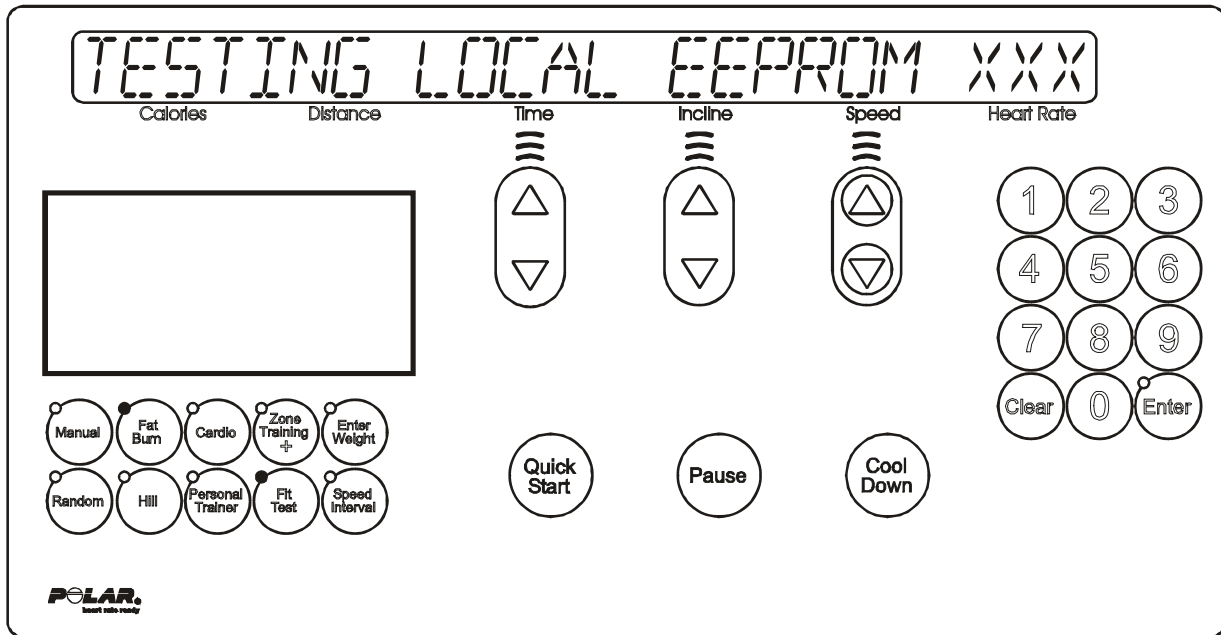
This test allows the user to test the display console EEPROM. This test will read/write/replace all used locations in the display console EEPROM. The EEPROM location being tested will be displayed in the heart rate window. If there is an error, the bad location will be displayed.

The following is a list of current information that can be seen. In an error has occurred, refer to the troubleshooting section for corrective action.
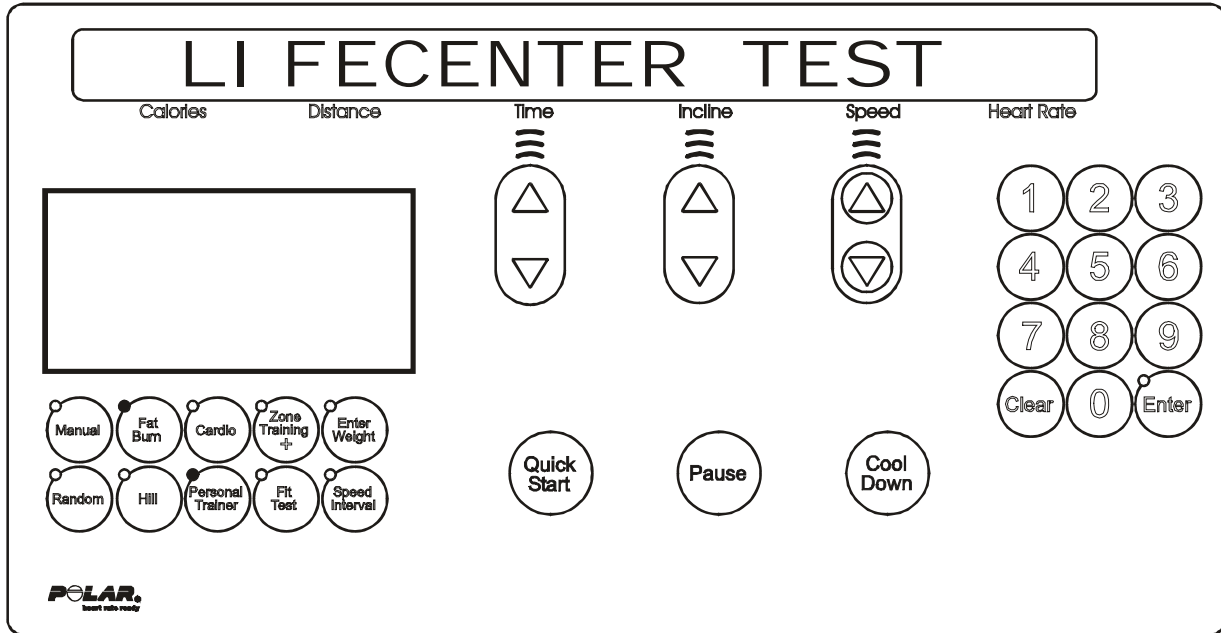
DISPLAYED INFORMATION	ERROR CONDITION
TESTING LOCAL EEPROM	EEPROM BAD AT XX
EEPROM TESTED GOOD	

Press the 'CLEAR' key to exit the Display Console EEPROM test and return to the System Test Menu.

This test will give information concerning whether there is a lifecenter system connected to the treadmill. The following is a list of the current information that can be seen:
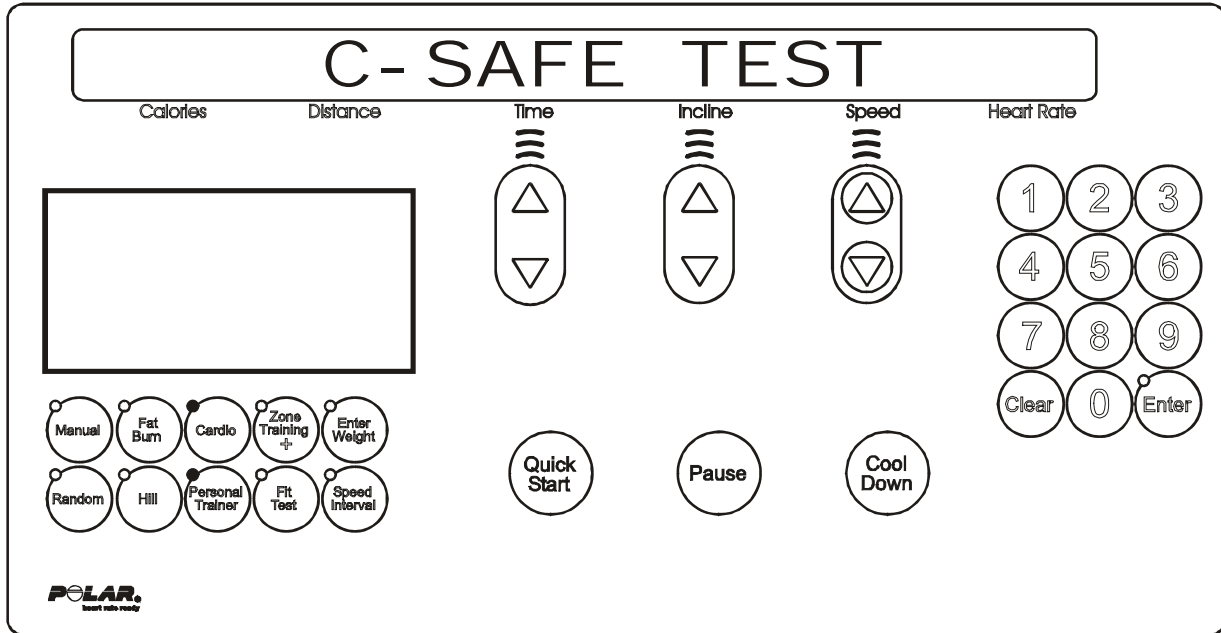
```
NONE
NULL -   T-XX   R-XX
OFF -    T-XX   R-XX
ON  -    T-XX   R-XX
WAIT -   T-XX   R-XX
```

The "T-XX" is the last transmitted message to the lifelink card.
The "R-XX" is the last received message from the lifelink card.

Press the 'CLEAR' key to exit the Lifecenter test and return to the System Test Menu.

This test will give information concerning whether there is a C-SAFE system connected to the treadmill. The following is a list of the current information that can be seen:
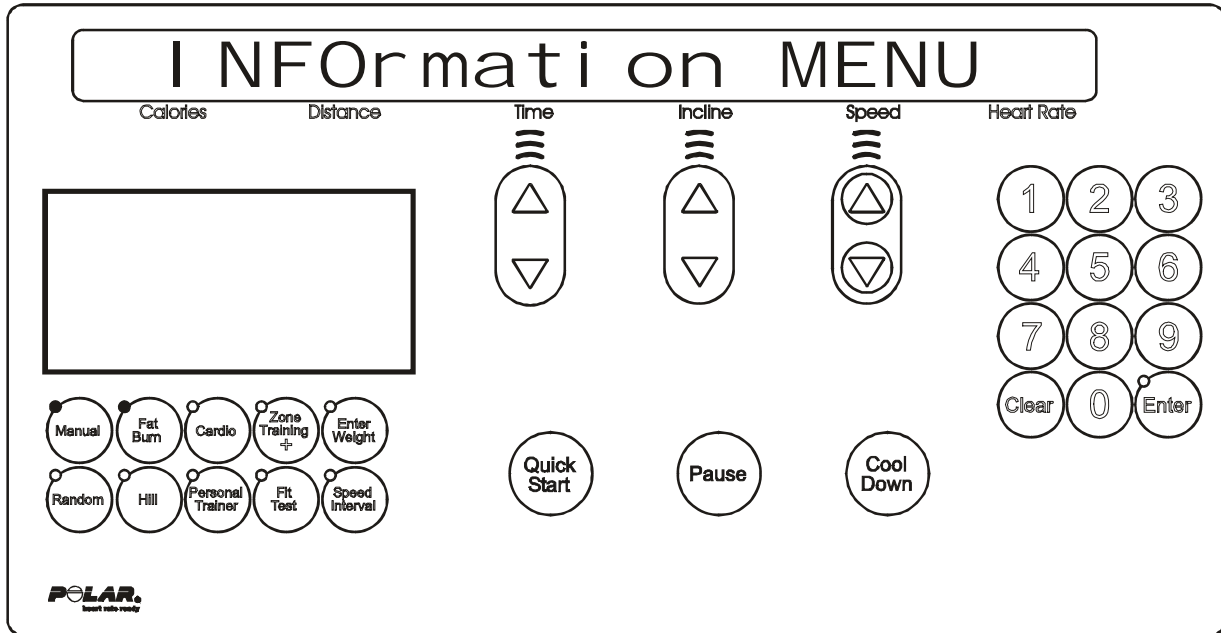
        NONE
        NULL -   T-XX   R-XX
        OFF -   T-XX   R-XX
        ON -   T-XX   R-XX
        WAIT -   T-XX   R-XX

The "T-XX" is the last transmitted message to the C-SAFE card.
The "R-XX" is the last received message from the C-SAFE card.

Press the 'CLEAR' key to exit the C-SAFE test and return to the System Test Menu.

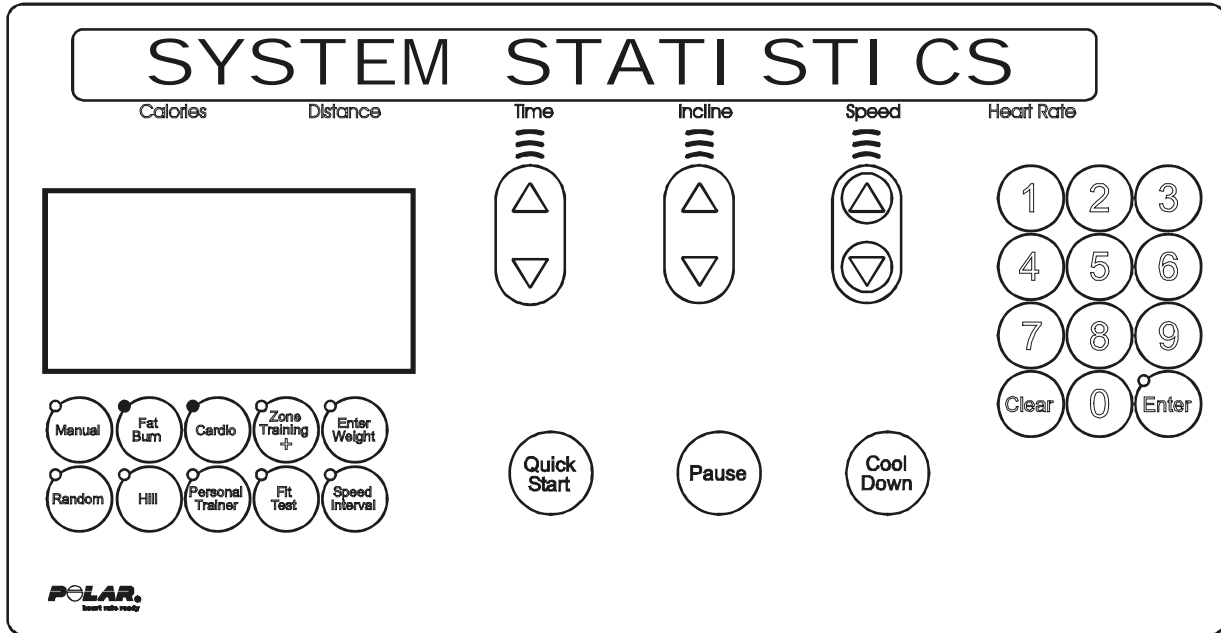Upon entry into the area, the message is:

Followed by,

Using any of the arrow keys will allow you to scroll through the eight system information areas.

SYSTEM STATISTICS	WAX MOTOR INFORMATION
SOFTWARE VERSIONS	REAL TIME CLOCK INFORMATION
MAIN MOTOR INFORMATION	SYSTEM ERRORS
LIFT MOTOR INFORMATION	SYSTEM MAINTENANCE

Press the 'ENTER' key to enter the desired category.

This area will allow the user to see system information concerning the following areas:
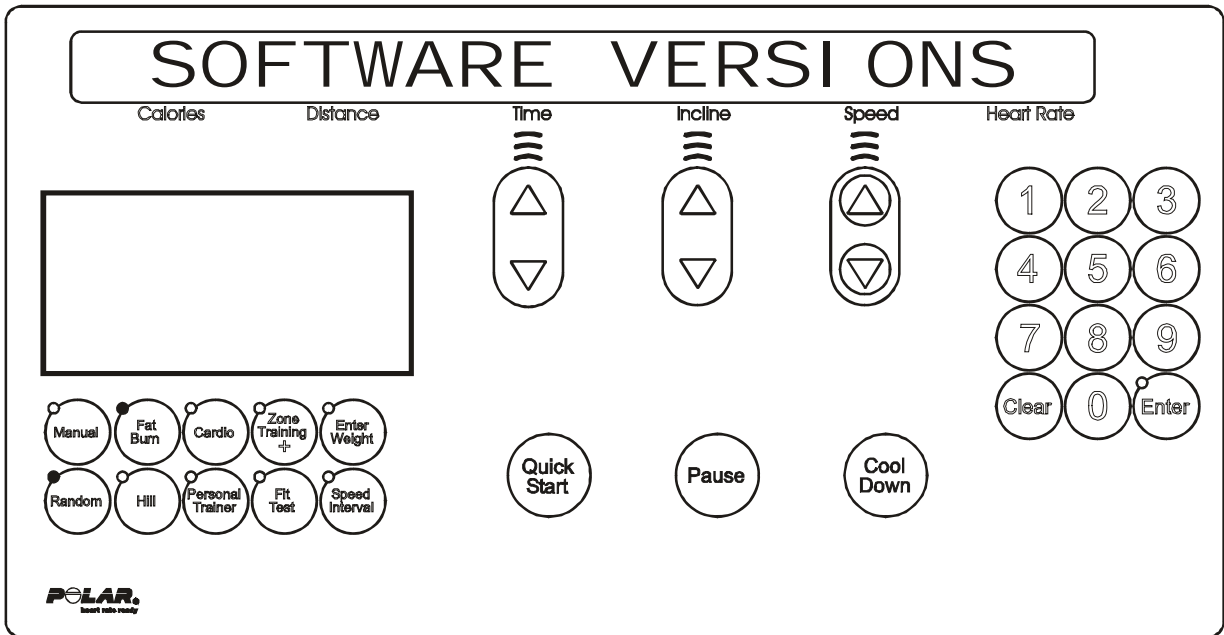
DISPLAYED INFORMTION

TOTAL HOURS
TOTAL MILES
BELT HOURS
BELT MILES
LIFT MINUTES
HILL PROGRAM SELECTIONS
RANDOM PROGRAM SELECTIONS

MANUAL PROGRAM SELECTIONS
FAT BURN PROGRAM SELECTIONS
CARDIO PROGRAM SELECTIONS
FIT TEST PROGRAM SELECTIONS
QUICK START PROGRAM SELECTIONS
CUSTOM 1-6 PROGRAM SELECTIONS
MISCELLANEOUS CUSTOM PROGRAM SELECTIONS
SPORT TRAINING PROGRAM SELECTIONS
SPEED INTERNAL PROGRAM SELECTIONS
ZONE TRAINING AND PROGRAM SELECTIONS

The information will automatically scroll every 3 seconds or using any of the arrow keys will allow you to scroll through the system statistics.

Pressing the 'PAUSE' key can LOCK the display. This will prohibit the scrolling of the information.
Press the 'CLEAR' key to exit the System Statistics and return to the System Info Menu.

This area will allow the user to see system information concerning the following areas:

DISPLAYED INFORMATION

CONSOLE SOFTWARE VERSION
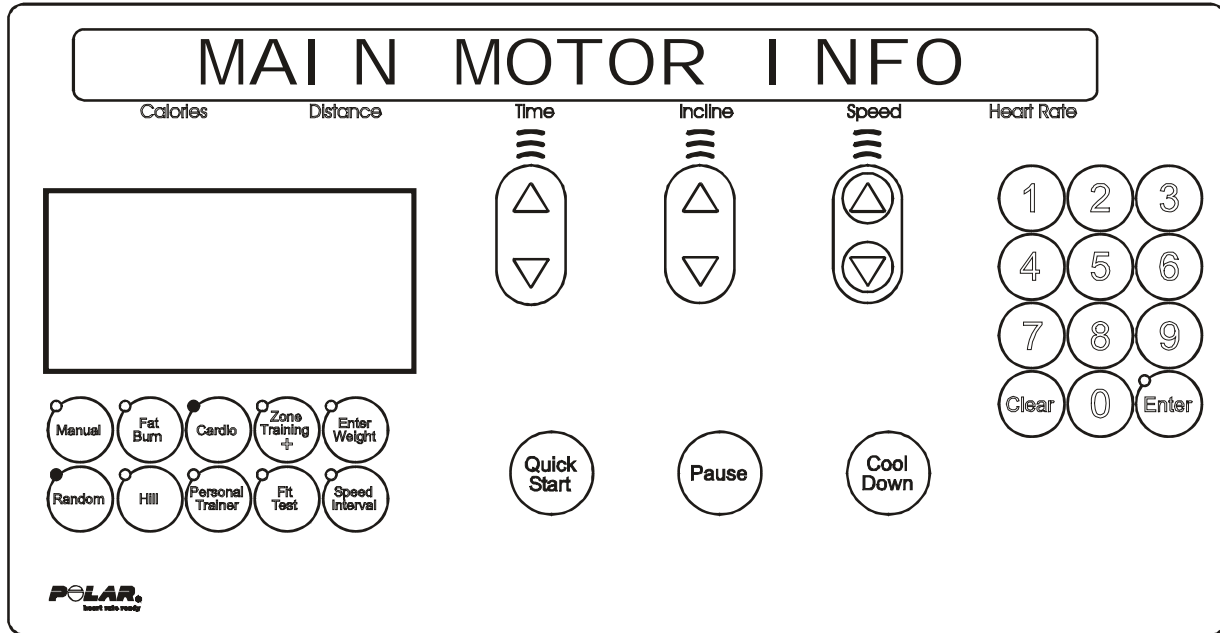MOTOR CONTROLLER SOFTWARE VERSION

WAX/LIFT BOARD SOFTWARE VERSION
LIFEPULSE SOFTWARE VERSION
C-SAFE VERSION
BOOT VERSION

The information will automatically scroll every 3 seconds or using any of the arrow keys will allow you to scroll through the system information.

Press the "QUICK START" Key to view the unit serial number.

Press the 'CLEAR' key to exit the Software Versions and return to the System Info Menu.

This area will allow the user to see the current information about the main motor and motor controller. The information will cover the following areas:
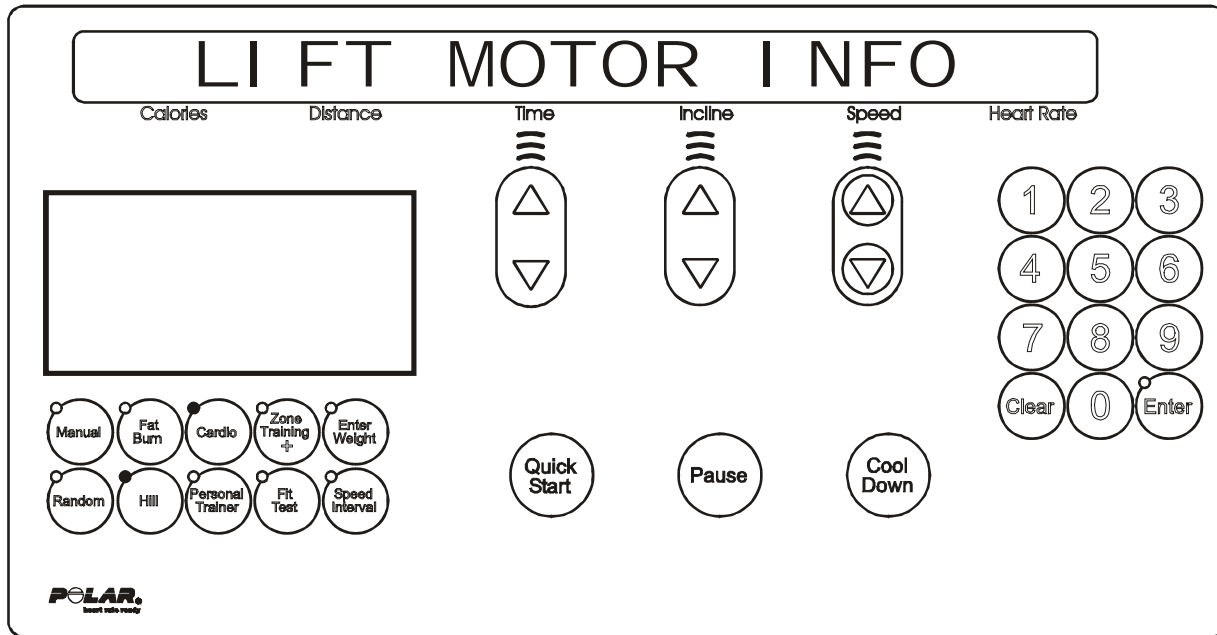
DISPLAYED INFORMATION

MOTOR MINUTES	NUMBER OF DYNAMIC CURRENT TRIP
NUMBER OF POWER UP RESETS	MAXIMUM STATIC CURRENT VALUE
NUMBER OF HARDWARE CURRENT ERRORS	MAXIMUM TEMPERATURE VALUE
NUMBER OF STATIC CURRENT TRIP	MAXIMUM VOLTAGE VALUE
NUMBER OF MAX TEMPERATURE TRIP	MAXIMUM DYNAMIC CURRENT VALUE
NUMBER OF MAXIMUM VOLTAGE TRIP	NUMBER OF SPEED SENSOR ERROR

The information will automatically scroll every 3 seconds or using any of the arrow keys will allow you to scroll through the main motor information.

Pressing the 'PAUSE' key can LOCK the display. This will prohibit the scrolling of the information.
Press the 'CLEAR' key to exit the Main Motor Info and return to the System Info Menu.

This area will allow the user to see the current information about the lift motor. The information will cover the following areas:
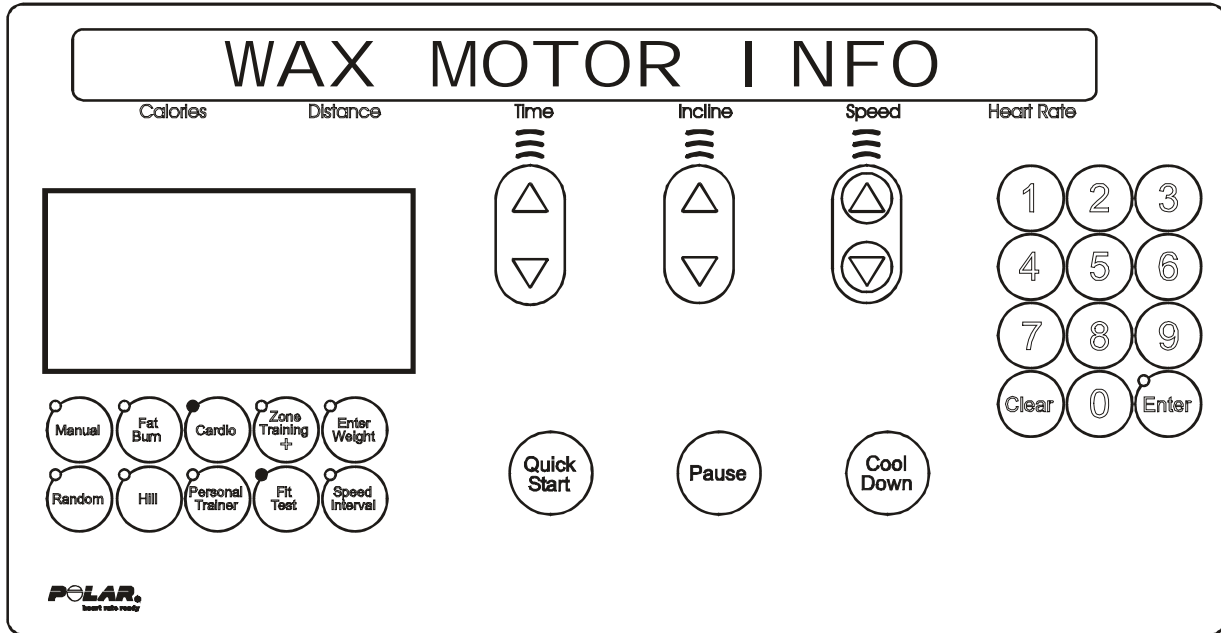
DISPLAYED INFORAMTION

1. UNIT CONFIGURATION – NEGATIVE OR NON-NEGATIVE
2. CURRENT LIFT ON TIME IN MINUTES
3. BUCKET (Refer to table)

BUCKET - INCLINE AT PERCENTAGE OF RANGE			
BUCKET 0	-3.0 TO -2.1 PERCENT	BUCKET 10	7.0 TO 6.1 PERCENT
BUCKET 1	-2.0 TO - 1.1 PERCENT	BUCKET 11	8.0 TO 7.1 PERCENT
BUCKET 2	-1.0 TO –0.1 PERCENT	BUCKET 12	9.0 TO 8.1 PERCENT
BUCKET 3	0.0 PERCENT	BUCKET 13	10.0 TO 9.1 PERCENT
BUCKET 4	1.0 TO 0.1 PERCENT	BUCKET 14	11.0 TO 10.1 PERCENT
BUCKET 5	2.0 TO 1.1 PERCENT	BUCKET 15	12.0 TO 11.1 PERCENT
BUCKET 6	3.0 TO 2.1 PERCENT	BUCKET 16	13.0 TO 12.1 PERCENT
BUCKET 7	4.0 TO 3.1 PERCENT	BUCKET 17	14.0 TO 13.1 PERCENT
BUCKET 8	5.0 TO 4.1 PERCENT	BUCKET 18	15.0 TO 14.1 PERCENT
BUCKET 9	6.0 TO 5.1 PERCENT		

The information will automatically scroll every 3 seconds or using any of the arrow keys will allow you to scroll through the wax motor information.

Pressing the 'PAUSE' key can LOCK the display. This will prohibit the scrolling of the information.
Press the 'CLEAR' key to exit the Wax Motor Info and return to the System Info Menu.

This area will allow the user to see the current information about the wax motor. The information will cover the following areas:
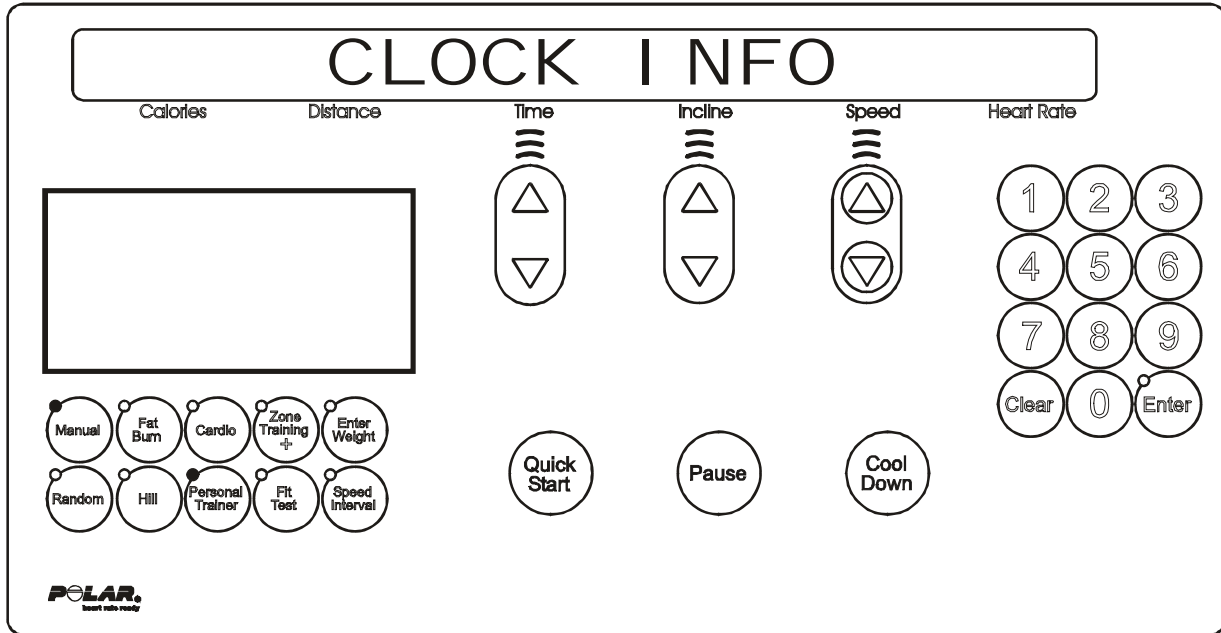
DISPLAYED INFORMATION

WAXER UNPLUGGED	NEXT WAX - XX HOURS
WAXER FIRED – XXX	INITIAL WAX- XX MINS
WAXER - XX/100 FULL	WAX INTERVAL XX MINS
MANUAL WAX- XX TIMES	MIN WAX SPEED- X.X

The information will automatically scroll every 3 seconds or using any of the arrow keys will allow you to scroll through the wax motor information.

Pressing the 'PAUSE' key can LOCK the display. This will prohibit the scrolling of the information.
Press the 'CLEAR' key to exit the Wax Motor Info and return to the System Info Menu.

This area will allow the user to see the current information about the real time clock. The information will cover the following areas:
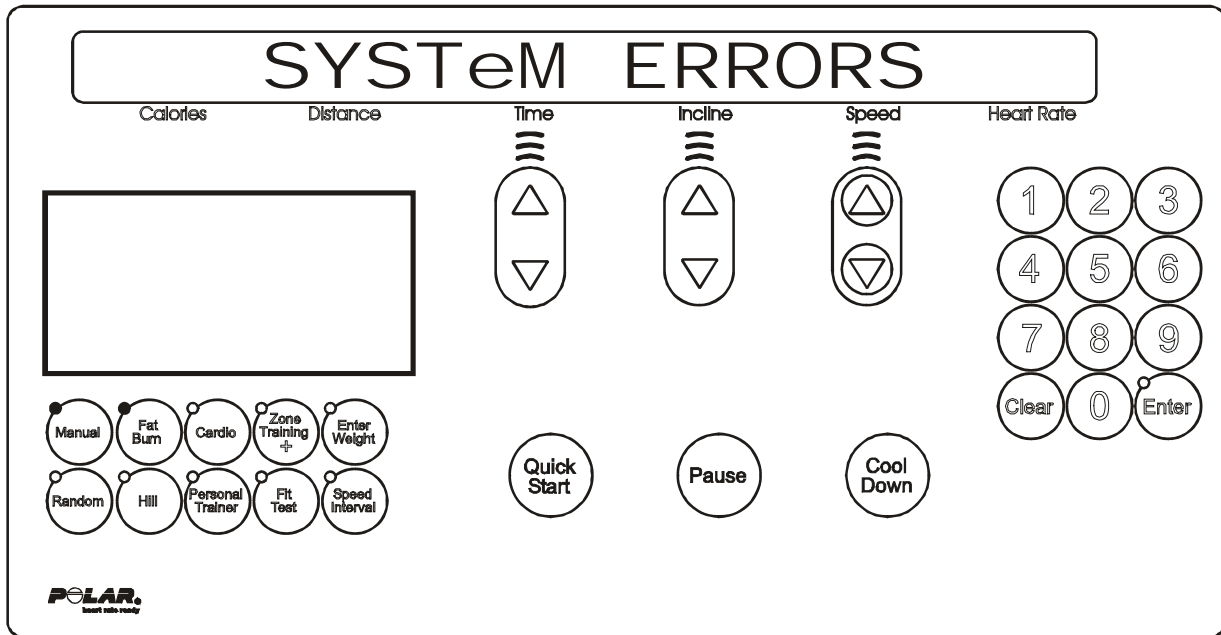
DISPLAYED INFORMATION

FRAME CLOCK COMM BAD
FRAME TAG UNPLUGGED
CURRENT SETTING FOR REAL TIME CLOCK

Press the 'CLEAR' key to exit the Real Time Clock Info and return to the System Info Menu.

This area will allow the user to see the last 25 logged system errors. The error information will be displayed from the most recently logged to the oldest. Each system error will be displayed in the following format.
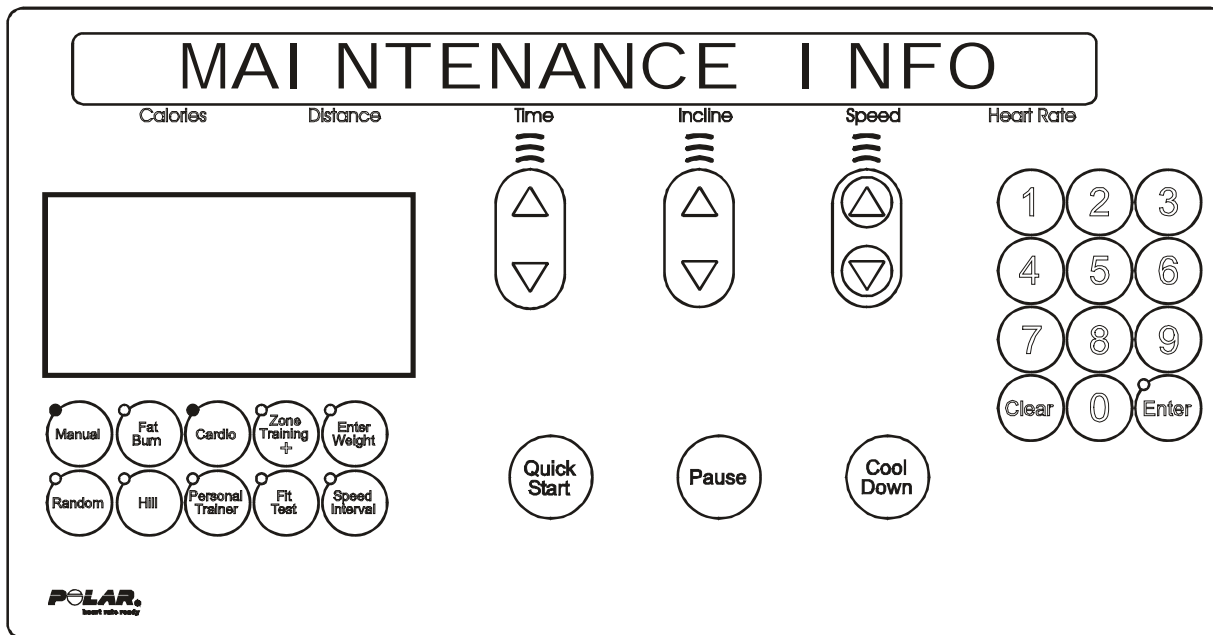

This format allows the user to scroll through all logged system errors without seeing any error details. The system errors will be scrolled automatically every 3 seconds or can be scrolled by using any of the arrow keys.

If the user wants to see the details about an error condition, the user must press the 'ENTER' key when the error title is displayed on the message center.

When the 'ENTER' key is pressed, all of the error log details will begin to display. These error details will scroll automatically every 3 seconds or can be scrolled by using any of the arrow keys.
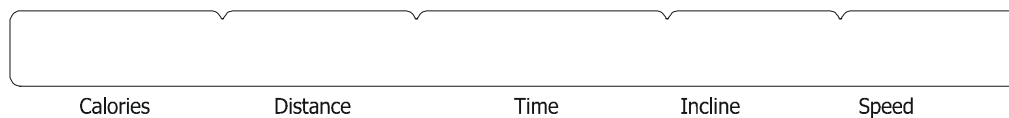
Press the 'CLEAR' key to go back to just seeing the error titles.
Press the 'CLEAR' key to exit the System Errors and return to the System Info Menu.

This area will allow the user to see the last 12 logged system repairs. The repair information will be displayed from the most recently logged to the oldest. Each system repair will be displayed in the following format.

This format allows the user to scroll through all logged system repairs without seeing any repair details. The system repairs will be scrolled automatically every 3 seconds or can be scrolled by using any of the arrow keys.

If the user wants to see the details about a repair procedure, the user must press the 'ENTER' key when the repair title is displayed on the message center.

When the 'ENTER' key is pressed, all of the repairs procedure details will begin to display. These repair details will scroll automatically every 3 seconds or can be scrolled by using any of the arrow keys.

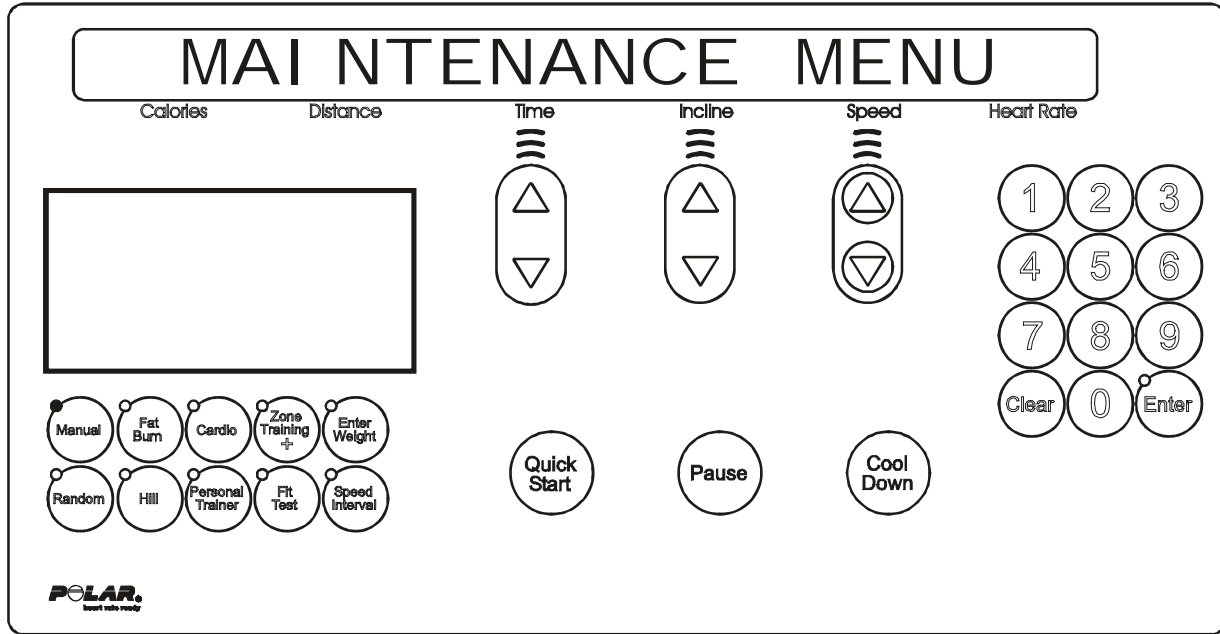Press the 'ENTER' key to view system repair procedure. Detail repair log as needed.
Press the 'CLEAR' key to exit the System Repair and return to the System Info Menu.

Upon entry into the area, the message is:

Followed by,

Using any of the arrow keys will allow you to scroll through the ten system maintenance procedures.

REPLACING BELT AND DECK	REPLACING STOP SWITCH
REPLACING WAXER BAG	REPLACING OVERLAY BEZEL
REPLACING CONSOLE	REPLACING MAIN MOTOR
REPLACING MOTOR CONTROLLER	REPLACING LIFT MOTOR
REPLACING WAX LIFT BOARD	REPLACING WAX MOTOR

Press the 'ENTER' key to choose the desired procedure.

Upon the selection of the desired procedure, the system will gather all-important information concerning that procedure and log the procedure and details to the frame tag EEPROM. Upon successful completion of the log, the message "REPAIR LOGGED" will be displayed.

Press the 'CLEAR' key to exit the System Maintenance and return to the Service Menu.

Upon entry into the area, the message is:
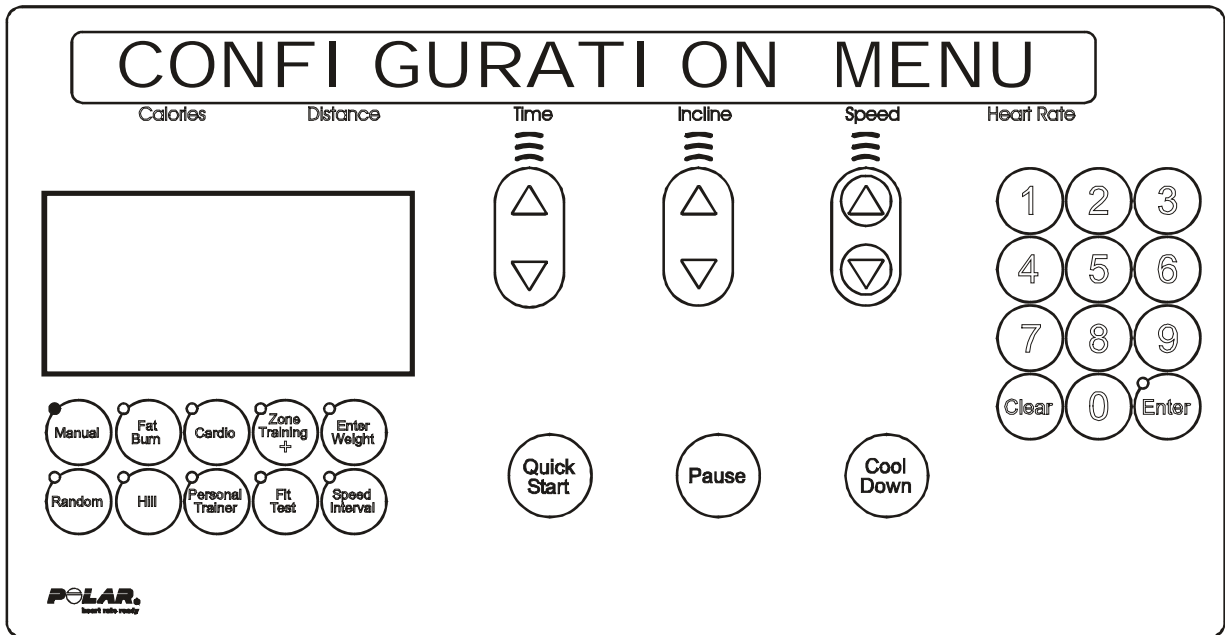
Followed by,

Using any of the arrow keys will allow you to scroll through the three system configuration areas.

    MANAGER CONFIG
    MANUFACTURE CONFIG
    CLOCK CONFIG

Press the 'ENTER' key to choose the desire area.
Press the 'CLEAR' key to exit the Configuration Menu and return to the Service Menu.
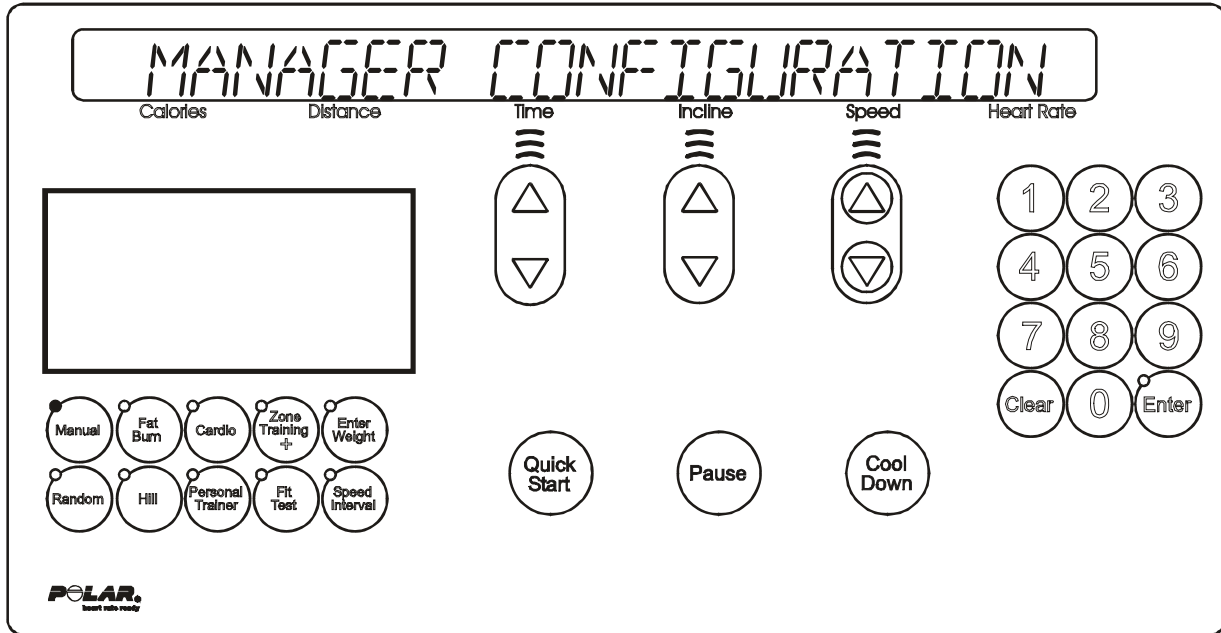
The information will automatically scroll every 3 seconds or using the 'TIME UP' or 'TIME DOWN' arrow keys will allow you to scroll through the configuration items.

The information can be changed when the item is displayed in the message center by using any of the remaining arrow keys to change the value.

This area will allow the user to see the current configuration about the system. The information will cover the following areas:

CONFIGURATION SETTING	FACTORY DEFAULT	DESCRIPTION
LANGUAGE	ENGLISH	Eight different languages can be selected: English, Dutch, Italian, Portuguese, German, French, Japanese, and Spanish.
MAXTIME SETUP	OFF	This feature enables fitness club managers to set workout duration limits during peak and non-peak hours of club traffic. If the setup is OFF, no duration limits are set.
STANDBY MODE SETUP	OFF	This feature enables fitness club manager to set periods at which the treadmill automatically powers up or powers down.
ENGLISH/METRIC UNITS	ENGLISH	The measurement unit type for weight, distance, and speed.
CUSTOM WORKOUT ENTRY	N/A	The trainer can define up to 6 different workouts consisting of a series of intervals (30), of a fixed duration in seconds, each containing a pre-defined incline, target heart rate percentage, or speed.
TELEMETRY	ON	Switching ON the telemetry feature makes it possible to use the Polar® compatible Heart Rate Zone Training exercise chest strap to monitor the heart rate.
SMART STOP	ON	This feature automatically pauses the workout if the user steps off the belt.
MAXIMUM SPEED	12 MPH, 95TI 15 MPH, 97Ti 10 MPH, 93T U.S. 12 MPH, 93T Int'l	Fastest speed at which the treadmill can operate.
MINIMUM SPEED	.5 MPH	Slowest speed at which the treadmill can operate.
PAUSE TIMEOUT	1 Minute	Maximum time during which a workout can remain in pause mode.
WATTS DISPLAY	OFF (Int'l ON)	If this option is enabled, the MESSAGE CENTER displays the Watts equivalent of the step rate.
METS DISPLAY	OFF	If this option is enabled, the MESSAGE CENTER displays the METs equivalent of the step rate.
PACE DISPLAY	ON	This feature displays the rate of minutes per mile.
CALORIE PER HOUR DISPLAY	ON (Int'l OFF)	If this option is enabled, the MESSAGE CENTER displays the number of calories burned per hour during the workout.
DISTANCE CLIMBED DISPLAY	OFF	The total distance climbed, based on the incline and speed of the treadmill.
WAX REMINDER	ON	After the first 100 hours, then every 168 hours, message will appear "MAINTENANCE REMINDER - CLEAN THE NOZZLE".
ACCELERATION RATE	3	The rate at which the treadmill accelerates to the selected speed, ranging from 1 (slowest) to 5 (fastest).
DECELARATION RATE	3	The rate at which the treadmill decelerates to the selected speed, ranging from 1 (slowest) to 5 (fastest).
MAXIMUM INCLINE	15.0	This option changes the maximum incline grade to a value lower than 15 percent.
START MESSAGE SETUP	N/A	See "Using the "Start Message Startup" in the Owners Manual.
QUICK START DISABLE	OFF (95Ti & 97Ti)	Use this option to disable or enable QUICK START workouts via the numeric keys.
FIT TEST PLUS	ON (Int'l OFF) (95Ti & 97Ti)	Enable/Disable Fit Tests: Army PFT; Navy PRT, Marines PFT; Gerkin protocol; PEB

Pressing the 'PAUSE' key can LOCK the display. This will prohibit the scrolling of the information.
All changed items will be saved to the memory upon exiting of the manager's configuration.
Press the 'CLEAR' key to exit the Manager's Config and return to the Configuration Menu.

The following message is for factory use only.

```
┌──────────────┬──────────┬─────────────┬──────────┬──────────┐
│  ACCESS RESTRICTED                                           │
└──────────────┴──────────┴─────────────┴──────────┴──────────┘
   Calories      Distance       Time        Incline     Speed
```

This area will allow the user to set the clock configuration in the system. The information can be obtained by using the 'ENTER' key to scroll the day, date, and time.
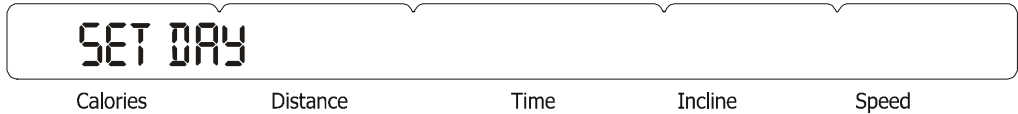
```
┌──────────────────────────────────────────────────────┐
│                                                        │
│      SET DAY                                           │
│                                                        │
└──────────────────────────────────────────────────────┘
   Calories      Distance      Time      Incline      Speed
```

In this area, the user will be prompted to set the current day for the real time clock. The following is the message that will appear: "USE ARROW KEYS TO CHANGE DAY"

By pressing any of the arrow keys the user will set the current day for the real time clock.
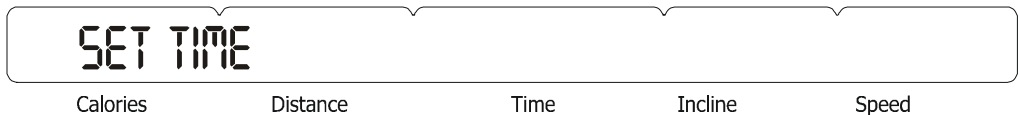Press the 'CLEAR' key to exit and save data. It will return to the Clock Configuration Menu.

```
┌──────────────────────────────────────────────────────┐
│                                                        │
│      SET DATE                                          │
│                                                        │
└──────────────────────────────────────────────────────┘
   Calories      Distance      Time      Incline      Speed
```

In this area, the user will be asked to set the current date for the real time clock. The following message will appear:

"ARROW KEYS TO CHANGE": "TIME KEYS = MONTH", "INCLINE KEYS = DATE", "SPEED KEYS = YEAR"

Press the 'CLEAR' key to exit and save data. It will return to the Clock Configuration Menu.

```
┌──────────────────────────────────────────────────────┐
│                                                        │
│      SET TIME                                          │
│                                                        │
└──────────────────────────────────────────────────────┘
   Calories      Distance      Time      Incline      Speed
```

In this area, the user will be prompted to set the display mode of the real time clock. There are two modes that can be chosen by using the 'ARROW KEYS' to scroll and the 'ENTER' key to set local time:

Standard time = 12 hours or Military time = 24 hours

After the selection of the display mode, the user will be prompted to set the current time. The following message will appear:

"ARROW KEYS TO CHANGE": "TIME KEYS = HOURS", "INCLINE KEYS = MINUTES", "SPEED KEYS = SECONDS"

Press the 'CLEAR' key to exit the Set Time menu and return to the Clock Configuration Menu.

NOTE